COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE

VERBATIM RECORD OF THE ONE HUNDRED AND THIRTIETH MEETING

Held at Headquarters, New York,
on Tuesday, 5 September 1972, at 3 p.m.

Chairman:

Mr. JANKOWITZCH (Austria)

- Opening of the fifteenth resumed session
- Statement by the Secretary-General
- Adoption of the agenda
- Statement by the Chairman
- Consideration of the reports of
  (a) The Legal Sub-Committee
  (b) The Scientific and Technical Sub-Committee, including the
      summary of the Preparatory Session of the Working Group
      on remote sensing of the earth by satellites

This record is issued in final form pursuant to the decision taken by the
Committee in September 1970 (see Official Records of the General Assembly,
Twenty-fifth Session, Supplement No. 20 (A/8520, para. 10).
OPENING OF THE FIFTEENTH RESUMED SESSION

The CHAIRMAN: The fifteenth resumed session of the Committee on the Peaceful Uses of Outer Space is called to order.

Before we proceed to the business of the Committee, may I discharge the very pleasant duty of extending a cordial welcome to the Secretary-General of the United Nations, who is in our midst this afternoon. This welcome is all the more cordial because, as the members of the Committee know, he is a former Chairman of the Committee on the Peaceful Uses of Outer Space.

The Secretary-General has kindly agreed to address the Committee this afternoon. May I, on behalf of all the members of the Committee, thank you, Mr. Secretary-General for having taken the time to come here this afternoon and speak to us.

I now give the floor to the Secretary-General.

STATEMENT BY THE SECRETARY-GENERAL

The SECRETARY-GENERAL: It gives me great pleasure to join you on the occasion of the first meeting of the resumed fifteenth session of the Outer Space Committee. I also take this opportunity to extend my best wishes to the new Chairman of the Committee, Ambassador Jankowitsch, for the successful work of the Committee under his leadership.

International co-operation in the peaceful uses of outer space has preoccupied the United Nations ever since it became clear what the orbiting of man-made satellite would have in store for mankind. It was only natural that, in the beginning, the international community welcomed the technological fact with mixed feelings. There was the hope, on the one hand, that the benefits from this new technology would be immense if used for the improvement of man's destiny on earth; there was the apprehension, on the other, that if abused the technology could bring mankind closer to the brink of disaster.

The first and second decades of space exploration and activity have, because of man's prudence, allayed this apprehension, and have witnessed a blissful era of international co-operation in this field. The progress achieved has also provided the international community with eloquent testimony of a historical process through which, given the political will, an area of potential rivalry and conflict in international politics can be turned into a fruitful co-operativeendeavour for the benefit of mankind.

It is in that spirit, of course, that the world community has welcomed the agreements reached in the last few years between the two space Powers for enhancing their co-operation in joint space programmes, including, more recently, the agreement for the joint docking of American and Soviet spacecraft and stations envisaged for 1975.

Of no less importance has been other bilateral and multilateral international co-operation among other States, including the developing countries, in the scientific exploration and practical applications of space technology in the area of communications, meteorology and remote sensing of earth resources.
Much credit for this achievement goes to the international community for its constant prudence and encouragement, and I am most grateful that the United Nations has not failed to be an active participant in this process.

During the many years that I had the privilege of being associated with this Committee, I was constantly impressed and heartened, even during the most controversial periods, by the sincere desire of members of the Committee truly to promote the peaceful exploration of outer space, honestly to search for ways and means through which the benefits derived from such exploration would be shared by all Member States, and to employ the machinery of the United Nations for these ends whenever possible.

The accomplishments of this Committee in establishing a legal foundation for activities in outer space are well known and are most impressive. The Declaration of Legal Principles adopted by the General Assembly in 1963 marked the initial convergence of efforts initiated in the United Nations as early as 1959 to establish a legal regime for outer space activities. The Declaration stipulated that all activities in outer space would be carried out in accordance with the Charter of the United Nations and international law in general, in the interest of mankind, international peace and security, and for promoting international co-operation and understanding.

This development provided the basis for further action to give treaty form to the principles governing the activities of States in outer space, and an international treaty was concluded under United Nations auspices in 1967. It is a historic document for, among other things, it sought to ensure that man would not extend to outer space his earthly exercise in nuclear weapons and weapons of mass destruction.

This treaty was soon followed by two other documents -- the Agreement on Rescue of Astronauts and the Convention on International Liability for Damage Caused by Space Objects, adopted by the General Assembly in 1968 and 1971, respectively. These are two most important agreements.

The United Nations has now turned its attention to two other significant draft treaties relating respectively to the moon and to the registration of space vehicles. The consideration of a treaty to govern the activities of man on the moon is most timely. Equally important is the consideration given to an agreement which will develop in an orderly pattern the registration of space objects, which are constantly increasing. Although these draft treaties are not yet completed, considerable progress has been achieved so far on these two agreements and I share the hope expressed in this Committee that they will be finalised in the near future.

The attention of the General Assembly this year has also been drawn to a draft convention relating to the use of satellites for direct television broadcasting. This and other proposals now before the Legal Sub-Committee will no doubt engage the attention of this Committee for the months to come.

I am confident that, as in the past, the United Nations will continue to play, through this Committee, the vital role expected of it in ensuring that the exploration of outer space will take place in an orderly and peaceful manner, in the interest of all nations regardless of their economic development.

Let me also say a few words about the scientific and technical aspects of outer space co-operation, particularly in the field of practical applications of space technology.

We are now well in the second decade of outer space exploration, in whose wake we have observed increased activities in practical applications. Weather satellites and communication satellites are performing important functions which already benefit a large portion of mankind and which promise to bring more benefits to an even larger number in the future. We are on the threshold of another practical application of space technology: the remote sensing of earth resources by satellites -- a technology which could become a most effective device in securing information about utilizing the earth's environment and its resources to alleviate the shortage of food, the problem of pollution and the conservation of nature. And there is no doubt that the future will bring additional new developments in outer space.

Throughout this time, the United Nations system has concerned itself with the energetic promotion of international co-operation in the applications of space technology. The World Meteorological Organization's utilization of meteorological satellites for its World Weather Watch and programmes, the International Telecommunication Union's involvement with communication satellites, and the United Nations Educational, Scientific and Cultural Organization's concern with the use of communication satellites for education are but some examples of such concern.
With the appointment of an expert on space applications two years ago, the Outer Space Committee has made it possible for the United Nations itself to pursue a programme of international co-operation to promote the use of practical applications of space technology. With limited means, United Nations activity in this area has now been developed into a modest but meaningful programme.

As the area of space applications is being widened, it should be possible to extend international co-operation to newer areas of activity. The resources and experience of the United Nations might be utilized in this context in a manner that not only would ensure that the practical benefits from space would become available to all nations but also would ensure a strengthening of the capabilities of the United Nations to act as a focal point in such international programmes.

I wish this Committee continued success in promoting international co-operation in the peaceful uses and exploration of outer space.

The CHAIRMAN: Mr. Secretary-General, on behalf of all the members of the Committee, I should like to express our sincere appreciation for your remarks which, I am sure, will prove to be a source of great inspiration to this Committee. I am quite certain that representatives will bear in mind the statement you have just made when addressing themselves to various questions on our agenda. I am particularly grateful for the good wishes which you extended to this Committee.

We should all have liked to keep the Secretary-General in our midst a little longer, but I understand that he has a particularly heavy schedule this afternoon. Regrettably, therefore, I shall now escort the Secretary-General from the Committee room, and for this purpose, and with the consent of the Committee, I shall suspend the meeting for five minutes.

The meeting was suspended at 3.30 p.m. and resumed at 3.35 p.m.

REPORT OF THE AGENDA (A/AC.105/122/L.66)

The agenda was adopted.

STATEMENT BY THE CHAIRMAN

The CHAIRMAN: It is a privilege for your Chairman to address the Committee at the outset of our work. Perhaps it is a little bit unfair for the Chairman to address the Committee without even asking whether anybody else wants to speak. However, I understand that this is a tradition of the Committee. The agenda contains an item entitled "Statement by the Chairman", and I shall therefore with your permission now proceed with my statement.

May I first say in my personal capacity what a great honour and special privilege it is for me to be able to preside for the first time over a regular session of the Committee on the Peaceful Uses of Outer Space. I already had the opportunity in May to assure the Committee of my determination to assist it in every way possible in carrying out its tasks and I am looking forward with great pleasure to most fruitful, effective and cordial co-operation with all the delegations present, the representatives of the specialized agencies, and the observers, and last but not least with the Secretariat of the United Nations, in particular the Outer Space Affairs Division under the experienced guidance of Mr. Abdol-Azizi.

Before the Committee enters into consideration of the problems and questions it is at present concerned with, it has become customary for the Chairman to review — and I will be as brief as I can — some of the major events in outer space since the last session of the Committee. I think this may be particularly useful to provide a framework for our later debates. May I remind the Committee, therefore, of the following most important events in outer space.

On 28 September 1971, Japan launched its first scientific satellite, Shinsai. On 3 October 1971 the Soviet Lunokhod 1 completed its exploration programme on the surface of the moon.
On 29 October 1971 the United Kingdom launched its X-3 Prosera scientific satellite from Vossena and became the sixth country successfully to place a satellite into orbit.

The United States Mariner 9 successfully transmitted on 9 November 1971 29 photographs of the planet Mars in a first test of the space system as it neared its rendezvous with the planet.

On 15 November 1971 an international agreement establishing Intersputnik, an international space communication organization, was signed in Moscow.

On 2 December 1971 for the first time an instrument package of the automatic station Mars 3 of the Soviet Union made a soft landing upon the surface of Mars. Data from the station were transmitted to earth.

At the beginning of this year, a capsule of the Soviet station Luna-20 returned to earth bringing back lunar samples.

An American spacecraft, Pioneer 10, was launched in March of this year on the first mission to explore the environs of the planet Jupiter.

As the Committee knows, the Apollo 16 mission successfully completed its space venture in March of this year. The crew succeeded in carrying out most of its objectives and brought a large amount of samples from the moon back to earth.

On the political side, an agreement was signed in May of this year between the President of the United States and the Prime Minister of the Soviet Union for co-operation between the United States and the Soviet Union in the exploration of space.

This provided a legal basis for the already existing space co-operation between the United States and the Soviet Union and is undoubtedly a most welcome step towards promotion of international co-operation in space.

May I conclude this round-up of space events by reminding the Committee that on 10 July of this year the Soviet Union launched its 500th satellite in the Cosmos series.

From the same country the Venus 8 automatic interplanetary station was launched in August. This new Soviet space experiment ensured during 15 minutes the transmission to the earth of valuable scientific data from the surface of the illuminated side of Venus.
The first Earth Resources Technology Satellite (ERTS-1) was successfully launched by the United States aboard a two-stage Delta rocket from the Western Test Range in Vandenberg, California, on 23 July 1972. Since the ERTS experiment is of the highest importance for the future activities of Working Group on Remote Sensing, I should like to take a few minutes to go into a little more detail on this experiment.

From a 570-mile elliptical, near-polar orbit, three television — videon — cameras equipped with colour filters will take pictures in the blue-green, red and near-infrared bands, and a radiation scanner will make measurements in visible green and red and two infrared bands. The television cameras will simultaneously view a single 115-mile by 115-mile square of the earth's surface every 25 seconds, scanning, for instance, the entire area of the United States in 500 photographs. These are just a few of the most interesting data on this new technological satellite.

The ERTS-1 satellite is a first step in studying the feasibility of remote sensing of the earth by satellite for gathering information on a global scale which can be of economic or social value to scientific, commercial and governmental interests. It is hoped that the data provided will eventually produce breakthroughs in the efficiency of such activities as agriculture, forestry, geology, hydrology, geography, meteorology, ecology and oceanography.

There are at present some 300 investigators from the United States and 43 foreign countries and two international organizations expected to participate in specific research projects in the programme, with 25 NASA specialists helping in the organization of the results submitted by each investigator. All investigators have access to all data from the ERTS instruments.

The processing of data obtained from the satellite will take place at the Goddard Space Flight Center in Greenbelt, Maryland, and it is anticipated that more than 300,000 photographs and digital images will be produced each week. These will be available to the public, especially at the United States Department of Interior's new Earth Resources Observation Systems Data Center in Sioux Falls, South Dakota.

(For the Chairman)

All the space activities which I have just mentioned are truly impressive in which, on behalf of the Committee, sincerely to congratulate all countries concerned on the tremendous successes science and human ingenuity have achieved through their efforts.

I come now to the work before the Committee in the legal field and in the scientific and technical domain. I feel obliged, first of all, to thank the Chairman of the Legal Sub-Committee, Dr. Wysner of Poland, who is here with us this afternoon, the Chairman of the Scientific and Technical Sub-Committee, Professor Carver of Australia; and the Chairman of the Working Group on Remote Sensing, Dr. Fiorio of Italy, for the excellent work they have done.

The reports before us clearly reflect the progress which was made during the past year. I particularly welcome the decision of the Legal Sub-Committee to authorize its Chairman, Dr. Wysner, officially to present the report of the Sub-Committee to us. I shall therefore not go into any further detail of the legal report but rather attempt a brief general appraisal of what has been done.

In accordance with a decision taken at our last session in September 1971, the Sub-Committee dealt with, as matters of priority, questions relating to the moon and to the registration of space objects.

The Legal Sub-Committee at its 1972 session established a Working Group for an article-by-article consideration of proposals relating to a draft international treaty concerning the moon. The Working Group formulated the text of the preamble and 21 articles of the draft treaty; they were approved by the Sub-Committee and are contained in paragraph 21 of its report. The draft treaty is, however, as yet incomplete, and provisions on which agreement was not reached were placed within square brackets. There are several issues to be settled before the draft treaty can be finalized.

One fundamental aspect which still needs to be resolved pertains to the scope of the treaty, namely, whether the treaty should be formulated so as to apply only to ‘other celestial bodies’, or also to ‘other celestial bodies’. On this matter different views were expressed by the members of the Legal Sub-Committee. Another major question relates to whether or not the provisions of the draft treaty should extend to the natural resources of the moon. Some delegations strongly advocated
the inclusion of provisions in the draft treaty to cover natural resources of the moon as well. On the other hand, there were delegations which took the position that it might be too early in this stage of exploration, when little is known of the technological possibilities and economic uses of the natural resources of the moon, to provide for a legal régime for the resources of the moon. The other questions relate to a proposal concerning notification and reporting on moon missions and the question of the liability of States for damage caused on the moon.

Many of the principles on which the present draft treaty is based are to be found in the outer space Treaty, and those principles have found reaffirmation in the provisions of this draft treaty. The draft treaty, however, on several matters, even in its present incomplete state, represents a significant advance over earlier agreements, and a substantial amount of agreement on new treaty provisions has been reached. I would therefore express a moderate amount of optimism on the chances of finalising this treaty, perhaps in the course of this session, and transmitting it to the twenty-seventh session of the General Assembly for final approval.

I appeal to all representatives to make every effort to reach solutions for the few still outstanding questions of a substantive nature, of which I am of course perfectly aware.

So far as the question of registration of space objects is concerned, we have learned from the report of the Legal Sub-Committee that the two previous drafts presented by Canada and France were merged in a single text, which will provide the basis for further deliberations on the subject by this Committee and the Legal Sub-Committee.

I turn now briefly to the activities of our Committee in the scientific and technical fields. I feel that now that the Committee on the Peaceful Uses of Outer Space has been in existence for some 10 years the time may have come to reflect upon, to review and to appraise the work of the Committee and its Scientific and Technical Sub-Committee in a comprehensive and perhaps also sometimes necessary critical way. While not attempting to prejudge in any way the positions and points of view of members of this Committee on the various subjects, I would nevertheless ask permission to present a few personal considerations.

It is commonly stated that our Committee should be the focal point of United Nations activities in outer space. In the scientific and technical area, some of the initiatives taken in the past, such as the sponsorship of launching facilities, have encouraged international co-operation in space science. While this is an important feature, it is becoming increasingly obvious that the field of major activity in the future will be the area of space applications. During the 1970s these applications and their political, scientific and legal aspects should therefore be a main concern of this Committee. Past United Nations action in this field has been relevant in some areas but fairly reduced in others. Let me just give a few examples in proof of this statement.

In the field of meteorology the General Assembly, on the initiative of some Members of the United Nations, started the World Weather Watch in 1961. As far as communications are concerned, the General Assembly considered this subject for the first time in its resolution 1721 D (XVI) and stated that "...communications by means of satellites should be available to the nations of the world as soon as practicable on a global and non-discriminatory basis". That belief has been reiterated several times, the last time in General Assembly resolution 2776 (XXVI).
The Committee has so far never openly considered the possibility of a role for the United Nations in the organization of a multinational or global system.

As to the question of direct broadcast, it was implicit in the recommendations of the Working Group created to study the subject during 1965 and 1970 that the Working Group did not visualize a role for the United Nations in the organizational aspects but thought it necessary that the United Nations should take action in the regulatory and legal aspects. The present proposal of a convention on principles governing the use of satellites for direct television broadcast which the USSR has requested to be considered by the General Assembly will presumably require action by this Committee and the Legal Sub-Committee and/or the Working Group.

As far as the question of navigation and communication services for maritime and aeronautical uses is concerned, the Scientific and Technical Sub-Committee, as we all know, created a Working Group on Navigation Satellites as far back as 1967. The Working Group has asked INCO and ICAO to keep the matter under consideration but has not yet set since then. Several countries are in the final study of an experimental aeronet system and a subsequent operational system for the Pacific and the North Atlantic. ICAO and INCO have studied the problem. Even though it is a subject of less relevance to the developing countries, it is perhaps regrettable that the Committee on the Peaceful Uses of Outer Space has not taken action in regard to the organization of any system that might be created to solve maritime and aeronautical needs.

Let me now say a few words about a subject which is of direct concern to the actual work of the Committee -- the question of remote sensing.

The Working Group for Surveying the Earth by Satellites has met, and it is expected that the final report will be submitted during 1973. In its consideration of its objectives in this area, the Committee should give due consideration to the advice of both the Scientific and Technical Sub-Committee and the Legal Sub-Committee. Particularly with regard to remote sensing, in view of the initial success of the EMRS, it should, in my view, request from the Working Group and the Scientific and Technical Sub-Committee definite proposals -- in accordance with the terms of reference of course -- for United Nations action, if any, in this field. Particularly as it is a multi-disciplinary activity and of interest to other bodies of the General Assembly and the Economic and Social Council -- that is, the Committee on Natural Resources and the proposed organization for the environment -- it should consider how these activities could be co-ordinated.

One of the objections that might be raised to such a proposal is that such action by the United Nations might be premature. It should be recalled, however, that the World Weather Watch was created when meteorological satellites were in their early stage of development and that many of the capabilities which are the basis of the present operational system were acquired only later. A cautious but nevertheless optimistic vision of the future should guide the activity of the Committee in such a way as to allow all the countries of the world to share in the possible benefits of the system with adequate time to consider their participation, prepare their personnel, develop adequate facilities, obtain new instruments, and so on, beforehand.

Finally -- and I would ask members to forgive me for taking up so much of their time -- I went to touch upon the area which should, I think, be given a very prominent place in the deliberations of our Committee in the years to come: the Programme of Space Applications. The Programme has now been in existence for two years. In 1971, it operated virtually without resources. In 1972, some limited resources became available. A programme for 1973 on the basis of a similar level of expense has been approved by the Scientific and Technical Sub-Committee, as have guidelines for 1974.

After two years of operation, with the allocation of a minimum amount of resources, it will be necessary to evaluate how and to what extent this Programme is fulfilling the objectives of the Committee. Therefore, it is my feeling that it will be appropriate for the Committee during 1973 to re-examine the objectives of the Programme of Space Applications and to have an evaluation from the Expert on Space Applications of the ways in which the Programme is fulfilling these objectives. The evaluation should be considered by the Scientific and Technical Sub-Committee during 1974 so as to allow the Committee to make proposals to the General Assembly at the end of that same year at the latest. This will be necessary also because it is expected that at that time the characteristics of operational systems in the area of remote sensing and perhaps in direct broadcast will be known, and it will be possible to define the future activity of the promotion of space applications based on a longer-term programme.
When we reflect upon the work programme of the Committee and its Scientific and Technical Sub-Committee vis-a-vis the Programme for Space Applications, it is apparent that because of the generalized and crowded agenda the Sub-Committee is often unable to give detailed consideration to the Programme of Space Applications. It might be considered more productive for the Committee, as the policy-oriented body to establish a system of priorities and direct the Sub-Committee to study and make definite recommendations on given priority items each year. This would eliminate the need for ad hoc working groups, encourage expert representation at and thereby enhance the effectiveness of the meetings of the Sub-Committee. Above all, the Sub-Committee would be able to give in-depth consideration and propose useful programmes, at least in a few of the vital areas of space applications already described.

In attempting to evaluate some aspects of the future role of the Committee on the Peaceful Uses of Outer Space, I must say that I feel rather strongly about a few aspects of our future work. I think that what this Committee should try to do is to avoid being merely a rubber-stamping agency for reports submitted by our Sub-Committees, of being only a sort of mail service in transmitting the decisions and recommendations of those organs to the General Assembly. This would certainly not be conducive to the enhancement of the reputation and effectiveness of our Committee and of its members. I think we must rather seek to provide leadership, to come forward with our own initiatives and to give directives to the Sub-Committees and the Working Group concerning all aspects of their work.

It is solely up to our Committee to shape the role for the future. As the policy-oriented focal point, it is up to the Committee to identify the interests of the international community in the field assigned to it and to ensure that due action is being taken in important areas of space applications. If the Committee establishes a work programme and proper priorities for both its Sub-Committees it will not be considered simply a body which only formalizes the work of its subsidiary organs but a real catalyst for international action in the area of space applications as well as in other areas.

I hope that all those considerations will be understood in their proper perspective by the members of this Committee. I repeat that in giving these few ideas I do not want to prejudice any recommendations or decisions the Committee may wish to take, because only the entire membership can give policy directives in the sense I have tried to outline. In any case, whatever the positions of various delegations might be with respect to any substantive questions, I hope that we might on this basic aspect address ourselves to these questions in the same way and find this common basis for our future work, which will, I am sure, be of tremendous importance for the future existence of this Committee.

I submit that it is only in this way that our Committee will be able to justify the hopes for its efforts of the Members of the United Nations as a whole, that our Committee will be able to mobilize support from all of them.

As, indeed, for all agencies and organizations of our world Organization, this universality of support, interest and co-operation is vital for the performance of our tasks, and I hope that the two weeks of hard -- and I hope also enthusiastic -- work lying ahead of us will bring us a little closer to that end.

I thank members for their attention.
Having come to the end of the statement of the Chairman under item 2 of the agenda, I would suggest that any comments that representatives might wish to make on that statement might be made at a later stage.

CONSIDERATION OF THE REPORTS OF
(a) THE LEGAL SUB-COMMITTEE (A/AC.105/101)
(b) THE SCIENTIFIC AND TECHNICAL SUB-COMMITTEE (A/AC.105/102), INCLUDING
THE SUMMARY OF THE PREPARATORY SESSION OF THE WORKING GROUP ON REMOTE
SENSING OF THE EARTH BY SATELLITES

The CHAIRMAN: The Chairman of the Legal Sub-Committee, Mr. Wyssner of Poland, has asked to be allowed to present the report of the Legal Sub-Committee (A/AC.105/101) this afternoon.

With the permission of the Committee, I shall now invite Mr. Wyssner to present the report of the Legal Sub-Committee.

Mr. WYSSNER, Chairman of the Legal Sub-Committee: Mr. Chairman, may I first of all express my gratitude for the very kind words which you addressed to the Legal Sub-Committee and to me personally. May I also extend to you my warm congratulations on your election to the chairmanship of the Committee on the Peaceful Uses of Outer Space. Your remarkable ability in dealing with international problems and in promoting international co-operation is well known to all of us. I have, therefore, no doubt that under your most competent guidance the work of the Committee will be assured of success, as it was under the leadership of your illustrious predecessor.

Similarly, may I congratulate the newly elected Vice-Chairman of the Committee, Ambassador Dacu of Romania. I have met him in many United Nations bodies and I know that because of his outstanding talents and experience he will prove a valuable addition to the Bureau, in which you, Sir, and all the members are fortunate to have Minister Sousa e Silva of Brazil as a learned and trusted Rapporteur.

It is at the request of the Legal Sub-Committee that I am here today to present the Sub-Committee’s report on the work of its eleventh session to the parent Committee, and to provide information on the draft texts contained in the report.
These recommendations of the Committee were, as members are aware, endorsed by the General Assembly in resolution 2776 (XXVI) of 29 November 1971.

The Committee also noted, at its fourteenth session in September of last year, that the USSR had submitted to the twenty-sixth session of the General Assembly a draft international treaty concerning the moon, on which some members of the Committee made observations. In its resolution 2776 (XXVI), adopted on 29 November 1971, the General Assembly, among other things, took note of the draft treaty proposed by the USSR and requested that this Committee and its Legal Sub-Committee consider, as a matter of priority, the question of the elaboration of a draft international treaty concerning the moon. The General Assembly also requested that a report thereon be made to its twenty-seventh session this year.

The Legal Sub-Committee was mindful of these General Assembly resolutions and the recommendations of the Committee when adopting its agenda and deciding on the organization of its work for its eleventh session. The Sub-Committee thus accorded priority to items 2 and 3 of its agenda, namely, "Matters relating to the registration of objects launched into space for the exploration or use of outer space" and "Questions relating to the moon". The Sub-Committee also provided delegations with the opportunity to express their views on the other questions which were included under item 4 of the Sub-Committee's agenda and to which I have just referred, and to have those views recorded in the summary records. As members know, summary records were maintained only for the fourth week of the Sub-Committee's eleventh session, in accordance with a decision taken by this Committee.

On the two priority subjects, the Sub-Committee sought to accord the fullest opportunity to delegations to consider the two subjects as thoroughly as possible in the time available: in the plenary meetings of the Sub-Committee; in working groups of the whole which were established by the Sub-Committee for each of the two subjects, for article-by-article consideration of proposals; and, whenever it was deemed necessary, by allowing for informal consultations and negotiations between delegations.

The Committee will note that it was under item 3 of the Sub-Committee's agenda, namely, "Questions relating to the moon", that greater progress was made. May I therefore speak first on that item. It is dealt with in paragraphs 15 to 21 of the Sub-Committee's report (A/AC.105/101).

The preparation, under item 3 of its agenda, of a draft treaty on the moon seemed desirable and important to the Sub-Committee. Since the outer space Treaty was adopted in 1966, great advances have been made in the exploration and use of outer space, in particular in the exploration of the moon. Men and mechanical devices of almost unimaginable ingenuity have been sent to the moon; men and mechanical devices of considerable mobility have travelled over wide areas of the moon; and samples have been brought back to earth. Even while the Sub-Committee was in session, a United States expedition, in the Apollo series, journeyed to the moon, spent several days on the moon and returned to earth with an unprecedented quantity of the substance of the moon for study.
The expeditions of the USSR and its experiments conducted with the help of Lunokhod and other automatic instruments have shown the remarkable degree to which exploration of the moon by mechanical devices capable of moving over large distances for periods of several months have been developed. Unmanned exploration of the planets Venus, Mars and Jupiter has also begun. Undoubtedly, in the not too distant future more countries will participate in manned and unmanned explorations of outer space, individually as well as through programmes of international co-operation.

The 1960 Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space and the 1972 Convention on International Liability for Damage Caused by Space Objects, respectively, developed and elaborated the basic provisions contained in the outer space Treaty of 1967 on assistance and return as well as liability. It seemed then timely and necessary that a specific draft treaty on the moon and indeed on other celestial bodies as well should be formulated on the basis of the outer space Treaty.

Accordingly, the Sub-Committee, shortly after the commencement of its session, considered it desirable, having regard to the fact that there were already certain specific proposals before it with respect to the moon, that a working group of the whole should be established for article-by-article consideration of proposals.

The proposals considered by the Working Group are mentioned in paragraph 15 of the Sub-Committee's report. The basis of the Working Group's examination of proposals was the USSR draft "International Treaty concerning the Moon", which contained the texts of a preamble, eleven substantive articles, and final clauses. The Committee will also note that a number of specific proposals were made by other delegations in the course of the Working Group's discussions, many of them by the delegation of the United States.

The texts finally formulated by the Working Group and approved by the Sub-Committee are set out in paragraph 21 of the Sub-Committee's report.

Members will note that the text contains a preamble and the provisions of twenty-one articles, including final clauses. The draft treaty, as members will note, however, requires completion, and provisions on which agreement was not reached were placed within square brackets.
(Mr. Wyner)

The widest possible international co-operation in pursuance of the treaty on a multilateral basis, on a bilateral basis or through international intergovernmental organizations (article IV, paragraph 2);

Provision to the effect that the Secretary-General as well as the public and the international scientific community should be informed, to the greatest extent feasible and practicable, of activities covered by the treaty (article IV, paragraph 3);

The right to collect and remove samples of mineral and other substances and making a portion of such samples available to other interested States Parties and the international scientific community for scientific investigation (article V, paragraph 2);

Measures to prevent the disruption of the existing balance of the environment whether by introducing adverse changes in such environment, harmful contamination through the introduction of extra environmental matter or otherwise (article VI, paragraph 1);

Designation of areas having special scientific interest as international scientific reserves for which special protective arrangements are to be agreed (article VII, paragraph 4);

Provision to the effect that to pursue their activities covered by the treaty, States Parties may move freely personnel, space vehicles, equipment, facilities, stations and installations over or below the surface of the Moon (article VII, paragraphs 1 and 2);

Provision to the effect that a State Party may establish a manned or unmanned station, use only that area which is required for the needs of the station, and provide the Secretary-General with immediate information on the location and purposes of that station and with subsequent information at annual intervals (article VIII, paragraph 1);

Obligation to offer shelter in stations, installations, vehicles and other facilities to persons in distress (article IX, paragraph 2);

Provision to the effect that all space vehicles, equipment, facilities, stations and installations shall be open to any State Party which may assure itself that the activities of other States Parties are compatible with the provisions of the Treaty; a projected visit requires reasonable advance notice and appropriate consultations may be held to avoid interference with normal operations in the facility to be visited (article XVI, paragraph 1);

Procedures for consultations between States Parties with respect to the fulfilment of obligations under the Treaty and provision for the Secretary-General’s assistance to be sought should a mutually acceptable settlement not be reached through consultation or other peaceful means chosen by the parties concerned as appropriate to the circumstances and nature of the dispute (article XVI, paragraphs 2 and 3).

Still, some further work remains to be done before the draft treaty can be regarded as in final form. On the other hand, as I have pointed out, much progress has been registered in the Sub-Committee on the general pattern of the draft treaty and on many specific provisions; and the clauses on which further consideration was deemed desirable are now known to delegations; and delegations are aware of each other’s views on those provisions.
Moreover, and perhaps most important of all, there was in the Sub-Committee a confidence that much had been achieved through mutual understanding and cooperation in formulating texts in areas of agreement. There was confidence also that existing differences were understood and appreciated, and that further deliberations on the part of Governments would lead in the near future, and hopefully at this present session of the Committee on the Peaceful Uses of Outer Space, to complete success.

I shall now turn to the second subject accorded priority at the Sub-Committee, namely, "Matters relating to the registration of objects launched into space for the exploration or use of outer space," item 2 of the Sub-Committee's agenda. It is dealt with in paragraphs 22 to 31 of the Sub-Committee's report.

There were two proposals before the Sub-Committee under item 2 of its agenda: namely, a draft convention proposed at the eighth session of the Sub-Committee by the delegation of France, concerning the registration of objects launched into space for the exploration or use of outer space; and a draft convention, proposed this year by the delegation of Canada, on the registration of objects launched into outer space.

As has been noted in paragraph 28 of the Sub-Committee's report following consultations between the two delegations, the two draft conventions were combined into a single draft convention proposed jointly by the delegations of Canada and France.

As in the case of its consideration of the draft treaty on the Moon, the Sub-Committee established a Working Group of the whole for article-by-article consideration of the joint draft convention.

The text prepared by the Working Group is set out in paragraph 31 of the Sub-Committee's report. Those provisions on which agreement in the Working Group was not reached were placed within square brackets again.

Certain delegations still entertained substantive reservations on whether the preparation of a draft convention on registration of objects launched into outer space would in fact serve a useful purpose in the identification of space objects, and they referred to the technical problems which would be raised by a treaty requiring the marking of space objects. While understanding the importance attached by other delegations to the ability to identify fragments of man-made space objects that might return to earth, they did not believe that marking would ensure identification, and reference was made in this connexion to the conclusions reached on the matter by the Scientific and Technical Sub-Committee in 1970.

On the other hand, a number of delegations in the Sub-Committee believed that a draft convention on registration was indeed necessary and important. It was their opinion that an adequate system of international registration of space objects would establish a legal link between a State and the space objects it launches and would assist in identification; and that such a system of adequate registration would facilitate the application of the evolving legal regime for outer space activities. They noted that the Outer Space Treaty of 1967 incorporated in article VIII the concept of "State of registry" and stated that an adequate system of registration would assist in the identification of space objects for purposes of the Convention on Liability as well as for purposes of the Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space.

The Committee will note that the provisions of the draft convention on registration prepared by the Working Group, which are not within square brackets, would provide both for a system of registration by launching States, and for the maintenance of a central register at the United Nations by the Secretary-General. In particular, each space object is to be registered by the launching State in the register it maintains, and each launching State is to inform the Secretary-General of the establishment of such register and to provide the Secretary-General with data on significant changes in the information initially furnished. The information so provided to the Secretary-General would be placed in the central register of the United Nations and States Parties should have full access to this information. A provision similar to that contained in the Liability Convention is made for the application of the registration Convention to international intergovernmental organizations.
Those provisions of the draft convention on which agreement was not reached in the Working Group and which appear in square brackets relate to certain matters on which substantial differences of view existed between delegations.

The Sub-Committee noted the text prepared by the Working Group and was of the opinion that the draft convention on registration of objects launched into Outer Space required further consideration as a matter of priority.

Finally, I should like to draw attention to the recommendations concerning the organization of the future work of the Sub-Committee. First, the Sub-Committee recommended that its next — twelfth — session be held from 26 March to 20 April 1973. Secondly, it agreed that summary records should be prepared and issued for all meetings of its next session in 1973; this latter decision was reached on the understanding gathered from the Secretariat that this would not entail additional financial implications and would not set a precedent for the future. I hope that our parent body will find no difficulty in endorsing those unanimous recommendations of the Sub-Committee.

Having said that, I could probably have concluded my introduction of the Sub-Committee's report. At the risk of abusing your patience, Mr. Chairman, I am tempted, however, to add a few further words of a more personal nature.

My colleagues and friends in this Committee are well aware of the fact that the codification and progressive development of any branch of international law is an arduous task which requires judicial skill, patience and determination on the part of all participating in that process. Speaking frankly, I should add that the so-called consensus procedure as applied in our work, though politically valuable, makes the technical fulfilment of this task even more complicated, for at any time an objection raised may reverse the achievements of many laborious hours of consultations, discussions and drafting work.

Yet, looking back at the last few years of the Sub-Committee's activities — marked by such accomplishments as the 1967 outer-space Treaty, the 1968 Agreement on the Rescue of Astronauts, the 1972 Liability Convention, and now an almost-completed draft treaty on the moon — one cannot help but feel that these documents, though far from being perfect and in the last case certainly open for further significant improvement, are nevertheless milestones in the development of a pioneering field: the international law of outer space.

In my opinion, this development can be attributed to at least three factors: first, the heightened sense of urgency dictated by the rapid progress of technological and human advances in the exploration of space, which makes the search for legal rules one of the most fascinating exercises for us lawyers; second, the political will of space Powers and non-space
Powers alike to keep outer space free from the evils — unfortunately so well known on the earth — of war, military abuse, pollution and hatred; and third, the wonderful spirit of understanding and compromise that happily prevails in the Legal Sub-Committee, combined with juridical and diplomatic qualities of the highest standards, possessed by its members and the members of the Secretariat, which makes possible the progress achieved in developing corpus juris spatialis.

I shall therefore conclude by expressing to all my friends, members of the Sub-Committee and of the Secretariat who work with us, my warm and heartfelt gratitude for their unfailing co-operation and support for our common venture: peaceful and harmonious uses of outer space.

The CHAIRMAN: On behalf of all members of the Committee, I thank you very much, Dr. Wyssner, for the excellent and most exhaustive report on the work of the Legal Sub-Committee which you have presented to us this afternoon. I wish also to thank the members of the Legal Sub-Committee for the patient and painstaking work that they undertook during their last session which, as we gather from the report and as we are all aware, has brought us many steps nearer our common aims. I also wish to say how impressed I was — and I believe all of us were — at the thoughtful conclusion of your report and for including some very valuable personal remarks of your own.

The Committee now has before it the statement just made by the Chairman of the Legal Sub-Committee. There is also before the Committee at this resumed fifteenth session the report of the Scientific and Technical Sub-Committee on the work of its ninth session, in document A/AC.105/102. The two reports — the oral report just presented which completes the written report of the Legal Sub-Committee to which I have already referred and the written report of the Scientific and Technical Sub-Committee, including the summary of the preparatory session of the Working Group on Remote Sensing of the Earth by Satellites — constitute item 3 of our agenda. As there still seems to be a little more time available this afternoon I wonder whether any representative wishes to speak now on the two reports or if it is the Committee's wish to adjourn the meeting now and start the discussion on them tomorrow morning.