CONCLUSIONS

TACQUINGT

Mr. Chriman, ver are now approaching the end of this bounful meeting, and I would like to make a very dear manual. We have beand that Anderdom may have different upon of either and of course we strendy from that this has been specifiely summarized by the tall of Perissons Cagliot. It seems to me that not all, but at least many, duties of the Andersite could be characterized, or examination above by a single word, which to my browdelp has not been continued from that it the word "constituer." The Anteriori should be the constituer. The Anteriori should be the control of the control of

PETER:

I have been very impressed in this meeting to hear so many times of the problems of devologing countries. Although its in not the mint subject of his meeting, I would like to say something on that problem too, because I think that one time is a subject of the something about it. We have been the intervention of contribution of the something about it. We have been the intervention to it is death about. But I think that the Academies of the whole would should have a late to play in order to inform and to take action so that the scientists and the preference at universities, and the research workers, of the developing countries when no de their opposite countries, would have a season which would allow them to do their opposite countries, would have a season which would allow

I think that the international organizations are doing the wrong work. They favour the brain drain in a scandidous way. I have been involved in development work for more than ten years. I am anused to see the rules of Propriets by international organization that, because they did not do the following the state of th

MENON

Mr. Chairman, I want just to make a few brief points. First of all, I would like to refer to the very important statement made by Professor Caglioti, that

the Academies should do what they are best suited to do, and certainly not undertake those tasks which others are much better equipped to perform. I think we should bear that in mind. That is a very important statement when we talk about what the Academies should do towards the year 2000.

We are also talking of academies of acience at the present moment. We do not have been the very large arractions that currespond to medicine, registering agriculture, technology, etc., shough of course the scientific component of these talks of Academies of Science in this particular traters, one is concerned with work at the frontiers, with new developments which we know from past experience are bound to have considerable impact on the world, on humanistin. It Academies should therefore, agent from being the scientific considence, as, Procedience. And I are not arriad of the world "elimin" in that regard because one must recognize the fact that one world as the frontiers, one develops the very best people, and they must therefore sund for excellence. But it is equally the responsibility of the Academies in point out to society, to government, in place in science in the long terms.

One can indicate the directions in which developments are taking the world. We have heard of many examples of the manner in which all the developments in space, in electronics, in biology, are transforming and will continue to transform the world. We ought to take note of these and their implications for humankind; and therefore advise on what should be done in the various fields, whether they relate to education, or to the manner in which the material needs will be met in the fields of food, energy, etc. Several speakers, in particular the first chairman, Professor Badran, Tom Malone, Professor Bekoe have referred to the developing countries in particular. And here one aspect which has come out, (and Dr. Malone referred to the U.N. Conference on Science and Technology for Development in Vienna in 1979) is a striking feature that if you want to develop the less developed countries, you have to make it possible for them. but they will have to do it themselves, developing indigenous science, and therefore the scientific method, the objectivity, the rational approach. They will have to bootstrap themselves and lift themselves up, because the magnitude of the developing countries is so great that nobody outside can really develop them, they have to develop themselves. And science is an enormous multiplier force for this purpose. But the Academies of the world can play a significant role in international cooperation to insure that these developments do take place.

I diskt that very little drought has been given to a meaningful point made by D. Mildoos, dark whereas we have large rescuents artifacts to Binachies, e.g., by D. Mildoos, dark whereas of the large rescuents artifacts to Binachies, e.g., States, the Cversan Development of U.K. and so forth, all the funds which flow into actual development projects, they will do not correspond to the Chines because that is then a self-generative force. And that is what one really needs and there I think the Andonnius should act with longerange prospective, doning and there I think the Andonnius should act with longerange prospective, and the product of everything that his grown in the world, the rate as which science has grown has been the most operated. There I do think the Andonnius should a prove has been the most operated. There I do think the Andonnius have a side to plot, purchasiled since they remain by and large independent unrectues, once of the very important directions, the appect of international cooperation.

I think the Chairman made a very important point about the question of cooperation among developing countries, which also ought to be focussed on. Thank you very much.

Mr. President, in a sense I am here under false pretenses because I am a humanist and not a scientist, but in the Academy of Athens, which embraces arts, letters and science, I happen to be the General Secretary and I have been asked to represent the Academy at this meeting. I would first of all like to thank you for all that I have heard and learned, and also to congratulate you for the admirable relaxed manner in which the whole thing has been conducted. Of all the things I have heard, of course one which is closest to my heart, was the wonderful message that His Holiness gave to our meetings. He spoke in an inspiring manner about a number of things that scientists should do and should bear in mind, and stressed that the Church is at present no longer an enemy but a friend of science and scientists. This is quite true, but it does not exhaust the great problem of science and religion. Now this is the point I would like at this moment to stress.

I am afraid that in the modern world again we are much too much overestimating the human intellect. There is much more than that in man, and there is much more than that of course in the world. As a classical scholar I cannot but remember what happened in the 5th century, when the Sophists brought to Athens their teaching, and of course they put the human intellect again in the center of the picture. Protagoras with his famous sentence: "Man is the measure of all things" put God out of the picture and put man in the middle of the picture. I have children and grandchildren. I have lived the experiences of my own generation and part of the experiences of the generation of my parents and I have noticed a very rapid decline in religion. There can be no doubt about that. Though of course it is unfair to speak about science as a whole, there can be no doubt that science is partly responsible, or to a great extent responsible for this decline.

The scientific Jews today cannot any longer tolerate the Jews of the Bible on the creation of the universe. People, the younger people in particular, do not believe in parthenogenesis, they do not believe in the existence or the possibility of miracles. It is again the intellect that is in the middle of the picture, and only what is intellectually acceptable is accepted. And this is of course a thing which one respects and one is grateful for, for all the magnificent work that is done in the various fields of science. At the same time, however, although the great and leading scientists are very well aware of the limitations of the human intellect, science as popularized is not aware of them. We have reached the moon. We are exploring outer space. We have created computers that are as perfect as the human mind if not more perfect. We have done this. We have done that. And this is what gives a completely false and dangerous position that the young take for the significance and the position of man in the universe. And it is very essential that in education, when science is taught - and it should be taught - it should be taught in a way that it is also accompanied by a sense of humility, because without that it can be extremely dangerous. I have seen it in children in my own country and I have had the same experience elsewhere too for I have had the opportunity to teach in many countries. And this is one of the great things: where do we place science within the great framework of the world, without understimating its significance, without making this realization shake our confidence in what we have achieved through science, but also having the right proportion, and the right perspective to it. We know and we are told that great scientists — I have been told that about Einstein — have never lost their faith. I do not know if this is true, I cannow retrify it, but I know of others that certainly have not but their faith. And I do not think that science must be seen as incompatible with faith. I am not referring to the

real leading scholars who know exactly where they are.

These general observations I would like to make with my thanks for all that I have heard and all that I have benefitted in this wooderful meeting.

CASSIOT

I should like to answer the question of Professor Mison concerning the study of the direction of development. When I suggested — in my presentation — that the Academies of Science should study and prepare reports on research priorities and national goals, I was plus infliciting the need of this activity.

T remember, for example, that the National Academy of Sciences has an on the tasks of science in relation to society resolutes.

Dr. Groser

Having followed the discussions of these days it seems that all of us agree that the progress of Science and technique may open the way to great hopes but also to great fears for humanking.

If progress makes necessary a windom proportional to the unprecedented power of man today, the Academies of Sciences of all the world may make an important contribution to the search for this wisdom, for the following reasons:

First: Academies are formed by scholars of different disciplines united in common and disinterested search for truth and for an open dialogue among persons of different ideas.

Second: There is a tradition of mutual trust and esteem between Academies of different countries, which is very important in order to overcome mistrust and bias which still make the dislogue among different cultures difficult, and in order to improve the free circulation of information in the international scientific community.

Third: the Academies of Sciences, because of their prestige and moral as well as scientific authority, are potentially in the best position to give the public objective, honest and reliable information on many problems of vital importance for the future of humankind.

In order that these possibilities become realities some preliminary conditions are required.

It is necessary that the members of the Academies should not consider the membership only as an honour but as an active engagement and clear evidence of the ethical principles on which seientific work is based: the love for wisdom, the research of a cultural horizon as bright as possible where they may insert their own socialized work.

It is also necessary sometimes to obtain for the Academies substantial financing without renouncing their independence.
For this reason it should be explained to the governments and public

For this reason it should be explained to the governments and public opinion, and even to the great international organizations, like UNESCO or the World Bank, that the efficiency and the independence of the Academies are very beneficial for single communities as well as for all humankind.

In some cases the Academies should change their statutes and organization systems and even their methods of working.

These changes should be made with constant faithfulness to the spirit of their original aims and traditions. They should improve the activity of the Academics and promote participation in their work by the more enlightened personalities of the scientific community. Moreover it may be useful to propose every year a special subject of great

interest, to which one or more Academies should devote their attention, studies and efforts. This will make it possible to give the public truly reliable information in a form that is accessible to and understandable by everyone.

These, in synthesis, are the main questions discussed in this meeting. Now let us reflect for a moment

If every participant submits to discussion in his Academy these points and promotes actual initiative for collaboration in order to reach the above mentioned goals, then I would say that our meeting has represented an important moment in the growth of world culture and in particular in establishing the new role of the Academies of Sciences in the world.

MARINI-RETTOLO

I think we have come to the end of this meeting and that, as Professor Trypanis said, we have had two days of hard work but also of satisfaction and, I would add, of pleasure, because we have learned so much. We have enriched ourselves spiritually but also materially, acquiring much information. Many problems have also been raised and many wishes expressed

I thank all of you who represent 47 Academies of Science and Scientific Institutions all over the world, the representatives of the Italian Academies and of the Institutions who have collaborated with us during the last two centuries. the Academies who sent messages, all the Forty as well as every participant who

has brought here his personal contribution. On behalf of the Accademia Nazionale delle Scienze detta dei XL, I thank you for having come to Rome for our Bicentenary and for your participation in discussing problems of great interest not only for the promotion of Science and the future of the Academies of Sciences but also for the future of mankind.

Let me, at this point, express my thanks also to my colleagues and collaborators who made possible, in different ways, the organization of this meeting, and in particular to the General Secretary of the Academy Professor Alessandro Ballio. The Academy is also very grateful to the institutions who gave us the financial support; the Ministero per i Beni Culturali e Ambientali, the Cassa di Risparmio di Roma and the ENEA.

I believe that even if the subject of the meeting: "The Academies of Sciences towards the year 2000", may have been a bit ambitious, it gave us a

guideline for discussion and many ideas.

As Professor Caglioti has very well synthetized, the lectures and the discussions held in these days have suggested what we should do in the future in order that our governments can better support our Academies, but also they have shown that the Academies have important obligations towards society.

They can no longer be, as the Holy Father said yesterday, Ivory Towers but must look at society and give their scientific contribution to society.

I think that the most important result of our meeting was the identification of the main role of the Academies of Sciences given by Professor Jaquinot:
"The Academies should be the conscience of the scientific world or maybe

the scientific conscience of the world".

I think we all fully agree because in our rapidly evolving society science

has become a fundamental factor of progress, which more than ever should be directed only covards the benefit of humankind.

I think, as De Giorgi said, that we should also go further, that is, the

T tunne, as De George said, that we should also go further, that is, the Academies should bring out of their circle the problems we have discussed in order to promote a broader interest in them and, if possible, new solutions for the future world.

. . .

I wish now to conclude with a formal act which recalls the obligation undertaken by our founder when the Academy was established

I have just received from the primer the first copies of the bandeedle, volume of the Memotie. I um glad to present and ogive them to you as a rememberarce of our Bleentenary and of your participation, recalling your attention amounting the first volume of the Memotic Copi due sensi a published or colume (*), i.e. Every two years a volume will be published. The Academy of the Copies of the C

This is a demonstration of the continuity of the Academy's scientific effort through the centuries and a manifestation of its will to pursue its tasks together with you in the future.

(*) A.M. Lozova: Lettera circolare agli Scienziati italiani (1781). Copia diretta all'astronomo de Cesaria (Biblicorca Civica di Verona).