Recommendations of International Meeting on «Towards a Second Green Revolution»

 North-South Network for the development and application of new biological technologies in Agriculture in the Tropics.

The first phase of the Green Revolution in the tropics has helped in mising food production above the rate of growth of population in most countries of Asia and Latin America. Improved productivity in tropical farms has resulted in many benefits to economically under-privileged farmers and consumers.

The agricultural advances of the last 20 years both in developing and developed countries have however raised the following issues which deserve the consideration of scientists, technologists, policy makers and political leaders.

a) There is abundance of food in the world today but millions of children, women and men remain hungry due to lack of the necessary purchasing power to buy food. Inadequate purchasing power is in many cases due to lack of opportunities for gainful employment. Therefore, in the next phase of the Green Revolution, as much attention will have to be given to lighting the famine of plots as to working for adequate food supplier, nutritional level and protection from disease (primary betth care and control of disease).

b) The endogloid transituolity of new production technologies needs to be incorporated in new production technologies. The aim should be the continuous improvement of terrestrial and aquatic productivity without destinent to the long item production potential of soil and water resources. Also the conservation of the basic agricultural asserts of land, water, flors, frame and the atmospheroshould be the foundation on which yield-enhancement agro-technologies should be developed.

c) The communic and notical nationalities of new technologies needs greater stantinion. The new technologies should not only be culturally responsive and environment-friendly but also friendly to mall belders, landless labour and economically poor consumers. Labour-friendlesses can be named if new technologies lead to the creation in rural areas of diversified opportunities for employment. Proceedings of the creation of the creation in rural areas of diversified opportunities from agricultural transportunities.

cultural products could help to generate more jobs and income in villages, particularly for women. Moreover an appropriate development of animal husbandry is important for labor, food and manure while care should be exercised to avoid overgrazing and environmental degradation.

d) For enhancing yields without increasing the cost of production, faming grown biological impura should be emphasized as a possible multitution for marker perchased domical inputs. Modern biotechnology selections would be protected by being in such measure farters. Also, integrated systems of percentaged by the such markers may be such as a subject of the such as a subject of the subject on the subject of the subject o

c) The redundações which fed to the Green Revolution of the last 20 years were generated, largely by public such resignations, either fonded anisotally or multilateally as in the case of the international research contras supported by the GGJRR (Communiture Group for International Agricultural Research). If the first Green Revolution from the ongle of research near executivity a product of public sector organization, the second Green Revolution triggered by generic engineering and biotechnology will increasingly be based on research discoveries made by privates accord companies. There is therefore need for a Research New work which can help to bring the latest tools of "optertant research" for solving the "downstream" production faced by undifference in the Tropics.

For developing a mutually beneficial "Upstream-Downstream Research" strateys which can help to promote the growth of a second Green Revolution rooted in the concepts of ecological and economic sustainability of yield improvement techniques, it is proposed to set up a Fature Action Committee.

The aim of the Future Action Group will be to bring together the following three groups into a symbiotic partnership:

- Non-profit national and international research organizations supported largely by public funds, such as Government Laboratories, Universities and CGIAR Institutes.
 - II. Private sector: industrial research and development organizations.
- III. Third world Research and Development institutes represented by the Third World Academy of Sciences.

If these 3 groups can work together in a mutually supportive and reinforcing manner, we can help to launch a symphonic agricultural production system where there is harmony between the short and long term goals of agricultural development for people. A Future Action Committee (*) should take speedy steps for bringing such a Halacera Partinership into action. The Italian Academy of Sciences has volunteered to undertake the first effort for starting the initiative.

 Organization of Pioneer Pilot Projects on the "Second Green Revolution Technology".

In order to popularie the different components of the new technologies based on biological and houselegacitenise inputs, it will be unfulf if a few passed on biological and houselegacitenise inputs, it will be unfulf if a few places or plat projects are organized in unitable villages in some countries of Asila, Ianti America and particularly Arica. Such pitch demonstration position. They should involve an integrated approach to biological and social engineering, with confederation of agriculture and local, but, equally important, of energy and engineering areas of the proposed on the organization of the placed on the agreement engineering the proposed on the proposed on the proposed on the proposed of the placed on the

The Patture Action Committee should take early steps to get such pillor projects organized with the help of appropriate national, biltereal and international agencies, so that interest in packaging and spreading the different components of the second Green Revolution sectionslogy becomes widespread. It is suggested to start with one or two projects in Africa. In Identifying and defining these projects, a major contribution aboutdle come from the African Academy of Sciences.

^(*) Formed by a group of scientists representing international organisations as well as industry.