

# Science Policy: New Mechanisms for Scientific Collaboration between East and West

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# Science Policy: New Mechanisms for Scientific Collaboration between East and West

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## PREFACE

On the eve of the XXI century our civilization is colliding with the next global problem, demanding a global solution. It is becoming more and more clear that the future of the world will be impossible without scientific support, analysis, prediction, and the use of scientific achievements. The immensity of these problems, and the limited financial resources which society may spend on their research and solution, urgently demand the selection of priority areas of research and scientists' combined efforts on a global scale.

The new geopolitical situation has uncovered Russia's and the former Soviet Union's scientific potential to the rest of the world community. This situation has given rise to wider opportunities for involvement in work on international projects and programs. The above-mentioned considerations impelled the Siberian Branch of the Russian Academy of Sciences to organize a workshop, under NATO (Scientific and Environmental Affairs Division) sponsorship, "Science Policy: New Mechanisms for Scientific Collaboration Between East and West". This Workshop was held in Novosibirsk in November 22-25, 1993.

The Workshop participants, from 17 countries, represented research institutes, universities, as well as NATO's scientific bodies, UNESCO, the Council of Europe, and other international organizations. The range of discussed problems included current problems, as well as prospects of international collaboration of scientists from both the East and the West. The scope of discussion also included interdisciplinary priority programs demanding the combined efforts of scientists from many countries, the experience in organizing the work of international research centres in Siberia as a new and promising form of international collaboration, some of their scientific results, and a suggestion of the direction in which collaboration should move. By the way, this explains the diverse character of the papers presented in this volume.

The Workshop's joint Statement is given at the end of the volume. It specifically addresses priority fields of science in which it was found expedient to develop joint multidisciplinary research. This research could encompass rational use of natural resources and regional sustainable development, as well as the monitoring of the current biosphere's ecosystem state and the risks of natural and anthropogenic hazards. The research might also broach the creation of advanced technologies and materials. The list of priorities included Siberia's economic, social, and humanitarian problems, as well as development of information systems for quick exchange of scientific data. There was a recognized need for wider access for young scientists' practice in partnership laboratories while on probation. This would include Siberian research centers.

The Workshop participants addressed the following organizations in their bid for attention for the Statement and actions to support East-West scientific collaboration: UNESCO, the International Council of Scientific Unions, NATO Science Committee, the Council of Europe, the Commission of the European Community, and the governments of the Commonwealth of Independent States (CIS).

The organisers gratefully acknowledge the financial support of the Scientific Affairs Division of NATO for the organisation of the Workshop.



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