The meeting of the 42nd Executive Committee of the International Commission on Large Dams (Commission Internationale des Grands Barrages, CIGB), in the work of which the Soviet delegation also participated, was held in Greece on May 12-23, 1974.

I. Meeting of Technical Committees. The meeting of 15 technical committees, in the work of five of which the Soviet delegations participated, was held on May 13.

1. The Committee on Materials used in the construction of dams (chairman S. M. Roberts, England) discussed the fulfillment of the program of the committee approved by the 41st Executive Committee of CIGB, and the documents prepared by the subcommittees on concrete and new materials, and noted the time and form of their preparation. The main work was conducted in subcommittees.

A. The subcommittee on concrete (chairman S. M. Roberts, England) examined and accepted the reports "Effect of various factors on expansion of concrete in large dams" and "Methods of determining shrinkage, shear, and temperature in concrete," and recommended their publication. Also examined were the proposals on the report "Quality control of concrete in the construction of high dams," which will be prepared in a final form by the Mexican National Committee, and the proposals on the report "Special cements for concrete of high dams," developed by the Finnish representative in collaboration with the Swedish National Committee. In addition, the report of the Finnish National Committee, "Investigation of the life of concrete in hydraulic structures," was examined.

B. The subcommittee of new materials (chairman P. Bertacci, Italy) mainly devoted its work to an examination of the use of bituminous facings for earth dams. Information collected earlier on bituminous facings was presented in the report "Bituminous facings of earth and rockfill dams." Additional information, which will be presented by the national committees, will be the basis for the practical use of such materials in the construction of reservoirs and canal facings. It is recommended to continue work in this area and to work out recommendations. It was suggested to examine the matter of using bitumen in the cores and core walls of dams, as well as resins and plasticizers. The subcommittee recommended working out a unified terminology for materials.

2. Committee on Organizational Matters under the President. The proposals of the Soviet National Committee of December 18, 1973 regarding the following matters were examined:

a) Reduction in the number of active technical committees of CIGB; b) inclusion in CIGB's sphere of activity of matters of the design, construction, and operation, as well as related scientific investigation on the structural part of hydroelectric stations and pumped-storage plants; c) inclusion in generalizing reports presented by national committees at routine congresses on the III section of information on the latest achievements in the field of dam construction in their countries.

It was noted in discussing the indicated proposals in the subcommittee that the first suggestion is supported fully by the leaders of CIGB, and it is suggested that as the technical committees fulfill their present assignments they be gradually eliminated, their number being reduced to the minimum necessary for the work of the commission. The second proposal was also supported. However, since the adoption of this proposal requires the introduction of appropriate changes in the Charter and Regulations of the CIGB, it was decided to suggest to the Executive Committee to entrust the given committee to prepare the edition of these changes and to confirm them finally at the 43rd Executive Committee meeting in Teheran. The third proposal on a change of the composition of the generalizing reports was also approved in principle. Also discussed were the suggestions of K. F. Groner (Norway), pres-
ident of the Commission on Large Dams, concerning limiting the discussions at the Executive Committees of presidential and vice-presidential candidates, and places of conducting the next executive committee meetings and congresses.

3. Committee on Earthquakes. The meeting of committee was held under the chairmanship of G. L. Serafim (Portugal). The activity of the committee was discussed. The great complexity and exceptional importance of the problem being studied by the committee was stressed in the address. Regret was expressed that in connection with the requirements of the Charter of the CIGB, the committee on earthquakes must cease its activity, although the problem is still far from settled. The committee did great work on generalizing the experience of designing dams for earthquake regions, which permitted preparing for publication the manual "Design of earthquake-resistant dams." This manual includes data on present-day trends in the designing of earthquake-resistant dams and construction methods, analysis of methods of designing earthquake-resistant dams, and general recommendations. The main calculation principles used in designing earthquake-resistant dams in various countries are presented.

On the basis of discussing the activities of the committee on earthquakes the following decisions were made: a) before final publication it is necessary to introduce additional corrections into the material prepared by the committee and carefully edit it; b) the materials prepared by the committee should be called "A survey of methods of designing earthquake-resistant dams"; they must be regarded as a working document when preparing a new survey, which should have a more clear-cut direction corresponding to its title. The preparation of a new survey on the basis of generalizations of experience gained in various countries should be entrusted to a new technical committee of CIGB, which can be called the "Committee on the design of dams with consideration of seismic activity"; c) the new committee should collect and generalize data on the effect of reservoirs on seismic phenomena. It should also examine current data on observations, investigations, predictions, and factors provoking earthquakes. The committee should perform this work in close collaboration with the committee of CIGB, UNESCO, and other organizations working in this field.

Organizations with which the working group of CIGB has already established contact are the international associations of engineering geology, seismologists and seismology, of physics of the earth's interior; international societies of rock mechanics, and foundation engineering; International Union of Geological Sciences; European Commission on Earthquake-Resistant Construction.

The working group of CIGB has had meetings with these organizations, as a result of which it is planning to hold in the summer of 1975, an international symposium on the problem of the effect of reservoirs on the seismic situation of a region.

4. Committee on Calculations and Design of Dams. The committee met under the chairmanship of H. H. Dixon (Cyprus), vice-president of CIGB. Suggestions on the activities of the committee presented in a letter of its chairman O. K. Skinkewicz (England) were discussed. The committee was created at the 41st Executive Committee meeting in Madrid, where the main directions of its activities were outlined. One of the main directions is the generalization and development of recommendations for the wider use of numerical methods in the design of dams, including the finite element method.

For a broader discussion of the main problems in calculations of dams, the committee decided to hold on September 1-5, 1975 a symposium in which specialists from the member countries of CIGB who are working in this field will participate. The symposium will be held in England at Swansea University; its organization has been entrusted to the British National Committee on Large Dams.

5. Committee on Generalization (committee chairman G. H. Hitart, Spain). The committee examined the proposals of the Soviet National Committee, sent earlier to the president of CIGB, on limiting the activities of the committee on generalization to preparing a bibliographic index of all publications of CIGB.

M. Kennard (England) and the French representative L. Ilchen were asked to prepare a system of key terms for a bibliographic classifier by the 43rd Executive Committee meeting in Teheran, 1975).

The form of the bibliographic catalog, including the content of the last five congresses (VII-XI), is to be decided at the XII Congress of CIGB in Mexico.

II. Meeting of the Executive Committee of CIGB. Representatives of 46 countries participated in the meetings of the Executive Committee. The meetings were conducted by President K. F. Groner (Norway), General Secretary A. Jano (France), and Vice-Presidents A. Benassini (Mexico), M. G. Spedy (Australia), H. H. Dixon (Cyprus), B. Binson