

# INFORMATION FOR THE PERIOD 1975-1978

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## INFORMATION FOR THE PERIOD 1975-1978

by Professor Yukiyosi KAWADA (Secretary of ICMI)

### 1. Terms of Reference of ICMI (as adopted at the Paris Meeting of the Executive Committee of IMU in April 1960—Reminder).

- (a) The Commission shall consist of ten members-at-large elected by the General Assembly of IMU on nomination of the President of IMU, and of one national delegate from each member nation, as specified below.
- (b) The officers of the Commission shall consist of a President, a Secretary, and two Vice-Presidents. The President shall be elected by the General Assembly on the nomination of the President of IMU from the members-at-large of the Commission.
- (c) The Executive Committee of the Commission shall consist of the officers of the Commission together with three additional members elected by the membership of the Commission.
- (d) In all other respects the Commission shall make its own decisions as to its internal organization and rules of procedure.
- (e) Any National Adhering Organization wishing to support or encourage the work of the Commission may create, or recognize, in agreement with its National Committee, a National Sub-Commission for ICMI to maintain liaison with the Commission in all matters pertinent to its affairs. The National Adhering Organization in question shall designate one member of the said Sub-Commission, if created, to serve as a delegated member of ICMI as mentioned in (a).
- (f) The Commission shall be charged with the conduct of the activities of IMU, bearing on mathematical or scientific education and shall take the initiative in inaugurating appropriate programmes designed to further the sound development of mathematical education at all levels, and to secure public appreciation of its importance. In the pursuit of this objective, the Commission shall cooperate, to the extent it considers desirable with effective regional groups which may be formed spontaneously, within, or outside, its own structure.
- (g) The Commission may, with the approval of the Executive Committee of IMU, coopt, as members of ICMI, suitably chosen representatives of non-IMU countries, on an individual basis.
- (h) The budget of the Commission shall be submitted to the Executive Committee of IMU and the General Assembly, for approval, at such times as may be determined by agreement between the Commission and the Executive Committee of IMU.
- (i) The Commission shall file an annual report of its activities with the Executive Committee of IMU, and shall file a quadrennial report at each regular meeting of the General Assembly.

### 2. The Executive Committee of ICMI for the Period 1975-1978.

President:

Professor S. IYANAGA, 12-4 Otsuka 6, Bunkyo-tu, Tokyo 112, Japan.

Vice-Presidents:

Professor B. CHRISTIANSEN, Royal Danish School of Education Studies, Department of Mathematics, Emdrupvej 115B, DK-2400, Copenhagen NV, Denmark.

Professor H. G. STEINER, Institut für Didaktik der Mathematik, Universität Bielefeld, 4800 Bielefeld 15, Heidsieker Heide 94, Federal Republic of Germany.

Secretary:

Professor Y. KAWADA, Department of Mathematics, Faculty of Science, University of Tokyo, Hongo, Bunkyo-ku, Tokyo, Japan.

Members:

Professor E. G. BEGLE, School of Education, Stanford University, Stanford, California 94305, U.S.A.

Professor L. D. KUDRJAVCEV, Steklov Mathematical Institute, Vavilova 42, Moscow, V-333, USSR.

Professor Sir James LIGHTHILL, Department of Applied Mathematics and Theoretical Physics, Cambridge University, Silver Street, Cambridge, CB3 9EW, England, U.K.

3. List of Members of ICMI.

Ex-Officio Members:

Professor Sir James LIGHTHILL (Past President of ICMI).

Professor D. MONTGOMERY (President of IMU), The Institute for Advanced Study, Princeton, New Jersey 08540, U.S.A.

Professor J.-L. LIONS (Secretary of IMU), Collège de France, 11 Place Marcellin-Berthelot, 75005 Paris, France.

Professor H. FREUDENTHAL (Representative of IMU on the ICSU Committee on Science Teaching), Institut Ontwikkeling Wiskunde Onderwijs, Tiberdreef 4, Utrecht/Overvecht, The Netherlands.

Members-at-Large:

Professor E. G. BEGLE.

Dr. P. L. BHATNAGAR, New Dehli, India.

Professoressa E. CASTELNUOVO, Roma, Italy.

Professor B. CHRISTIANSEN.

Professor S. IYANAGA.

Professor L. D. KUDRJAVCEV.

Professor J. LELONG-FERRAND, University of Paris VI, France.

Professor B. H. NEUMANN, Australian National University, Canberra, Australia.

Professor Z. SEMADENI, Polish Academy of Sciences, Warszawa, Poland.

Professor J. SURÁNYI, The University, Budapest, Hungary.

### National Representatives:

Professor L. A. SANTALO (Argentina).

Professor B. H. NEUMANN (Australia).

Professor E. HLAWKA (Austria).

Dr. G. NOEL (Belgium).

Professor L. NACHBIN (Brazil).

Professor B. L. PETANČIN (Bulgaria).

Professor A. L. DULMAGE (Canada).

Dr. Shing-Meng LEE (China-Taiwan).

Dr. J. VYŠÍN (Czechoslovakia).

Lektor J. HOFFMANN-JØRGENSEN (Denmark).

Professor H. KUNLE (Federal Republic of Germany).

Professor H. G. STEINER (Federal Republic of Germany).

Dr. L. KAILA (Finland).

Professor J. LELONG-FERRAND (France).

Professor K. HÄRTIG (German Democratic Republic).

Professor C. PAPAPOANNOU (Greece).

Professor J. SZENDREI (Hungary).

Dr. P. L. BHATNAGAR (India).

Professor C. L. MRIA (Ireland)

Professor M. MASCHLER (Israel).

Professor E. CASTELNUOVO (Italy).

Professor Y. KAWADA (Japan).

Professor L. KIEFFER (Luxembourg).

Dr. M. CUNDY (Malawi).

Dr. P. G. J. VREDENDUIN (Netherlands).

Mr. S. A. DADA (Nigeria).

Dr. A. JOHANSEN (Norway).

Dr. M. Raziuddin SIDDIQI (Pakistan).

Professor Z. SEMADENI (Poland).

Professor J. SEBASTIÃO E SILVA (Portugal).

Dr. G. C. MOISIL (Roumania).

Professor S. NIANG (Senegal).

Professor J. H. VAN DER MERWE (South Africa).

Professor P. ABELLANAS (Spain).

Dr. R. J. WATERSTON (Swaziland).

Professor H. WALLIN (Sweden).

Professor A. DELESSERT (Switzerland).

Dr. M. BOUGILA (Tunisia).

Professor J. V. ARMITAGE (United Kingdom).

Professor P. J. HILTON (USA).

Professor I. M. YAGLOM (USSR).

Professor D. KUREPA (Yugoslavia).

Dr. S. M. BAYAT (Zambia).

4. ICMI Bulletin.

ICMI on this period will continue to publish regularly ICMI Bulletin initiated on the preceding period. Bulletin No. 5 was issued in April 1975. It is planned that it will appear three times annually: in April, August and December.

5. The following international meetings on mathematical education took place in 1974:

ICMI Symposium at Vancouver (Canada), 22-24 August 1974.

Theme: Evaluation of Modern Mathematics Curricula.

The Nairobi Symposium (Kenya), 1-11 September 1974.

Theme: Interactions between Linguistics and Mathematical Education.

ICMI-IDM Symposium at Bielefeld (West Germany), 16-20 September 1974.

Theme: Teaching of Geometry.

ICMI-JSME Regional Conference in Tokyo (Japan), 5-9 November 1974.

Theme: Curriculum and Teacher Training for Mathematical Education.

6. Preparations for the Third ICME.

The third ICME will be held at Karlsruhe, Federal Republic of Germany, 16-21 August 1976. Under the chairmanship of Professor H. Kunle, President of the FRG subcommission of ICMI and Pro-rector of Karlsruhe University, the preparations for the congress are well under way. The first announcement was sent out in April 1975. The congress will include the following events:

*Plenary Sessions*: Six main papers by invited speakers devoted to matters of general interest in mathematics and the didactics of mathematics.

*Survey Reports in the Sections* on the following themes:

- A. 1. Mathematics education at pre-school and primary level (ages 4-12).
2. Mathematics education at upper primary and junior high school (ages 10-16).
3. Mathematics education at senior high school, college and university transition (ages 15-20).

4. Mathematics education at university level (excluding teacher training).
  5. Adult- and continuing education in mathematics (with reference to correspondence studies).
  6. The training and the professional life of mathematics teachers.
- B.
1. A critical analysis of curriculum development in mathematics education.
  2. Methods and results of evaluation with respect to mathematics teaching.
  3. Overall goals and objectives for mathematics teaching (Why do we teach Mathematics?).
  4. Research related to the mathematical learning process.
  5. A critical analysis of the use of educational technology in mathematics teaching.
  6. The interaction between mathematics and other school subjects (including integrated courses).
  7. The role of algorithms and computers in teaching mathematics at school.

*Sections and Short Communications.*

*Panel Discussions.*

*Practical Involvement.*

The mailing address for the third ICME:

The Third ICME, University, Keiserstrasse 12  
D-75 Karlsruhe (Federal Republic of Germany).

#### 7. Affiliation of IACME to ICMI.

The ICMI Executive Committee, meeting in Vancouver in August 1974, resolved to adopt an arrangement for affiliation of IACME (Inter-American Committee on Mathematical Education) to ICMI in the spirit of section (*f*) of the Terms of Reference, according to which ICMI and IACME will, in particular, continuously exchange information regarding all their proposed activities.

8. At the last General Assembly of IMU at Harrison Hotsprings (Canada) in August 1974 the following Resolution 5 was adopted concerning IMU: "The General Assembly received a report by Professor Sir James Lighthill on the work of the ICMI. The General Assembly expresses its great appreciation of the activities of ICMI in every aspect of mathematical education, particularly in developing countries, and it hopes that this work will continue to grow, and that the mathematical needs of other scientific disciplines will be taken into consideration."

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