

Resolutions of the First International Congress on Mathematical Education

This Congress draws attention to the following resolutions embodying matters of great importance to mathematical education:

- (1) In all countries, the modernisation of the teaching of mathematics should be pursued as vigorously as possible, both in the content of syllabuses and in the manner of presentation. Content and method are inseparable, and should be kept continually under scrutiny.
- (2) Mathematical ideas are inherent in many other disciplines (physics, biology, economics, sociology, etc.). Much mathematics arises from the construction of mathematical models of real situations, and the teaching of mathematics must recognise this. Collaboration between teachers of mathematics and those of other disciplines should therefore be encouraged.
- (3) International cooperation should be further developed. Information on the teaching of mathematics can be exchanged at conferences, in publications, and by visiting lecturers. Each country should be more fully informed of activities in the other countries. In particular, the "advanced" countries should continue to collaborate with the developing countries, in the search for solutions appropriate to them.
- (4) The rapid development of the content and methods of mathematical education makes it necessary for the teacher of mathematics to be given opportunities to pursue further professional study during his employment.
- (5) **The theory of mathematical education is becoming a science in its own right, with its own problems both of mathematical and pedagogical content. The new science should be given a place in the mathematical departments of Universities or Research Institutes, with appropriate academic qualifications available.**

The First International Congress on Mathematical Education makes the following recommendations to LC.M.I.:

- (1) to study the problems of international information on mathematical education in the various countries, in particular that of the establishment of international information centres and that of the creation of an information bulletin;
- (2) as regards the form of the next congress, to pay more attention to pre-school education, elementary education, mathematical education for the whole of the young people, and adult education.