

ICMI BULLETIN

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Secretary: Dr E. A. Maxwell,
Queens' College,
Cambridge,
England.

1. Foreword by the President

The excellent attendance of 1400 full members from 70 different countries at the 2nd International Congress of Mathematical Education in Exeter, England in 1972 demonstrated a strongly felt demand for wide international discussion of all aspects of mathematical education. The Executive Committee of ICMI is determined to respond to this demand by many means:

- (i) by careful planning to ensure the success in 1976 of the 3rd Congress, the location of which will be selected in a few months' time;
- (ii) by organizing at least seven specialised or regional symposia between now and then;
- (iii) by increasing its concern for mathematical education at primary level, particularly through two symposia in the subject (one in Hungary in 1973 with emphasis on curriculum matters and one in Poland in 1974 with emphasis on teaching methodology);
- (iv) by spreading its influence worldwide, particularly through regional symposia planned to occur in East Africa, in India and in Japan;
- (v) by arranging a stimulating programme for the occasion of the ICMI General Assembly to be held in August 1974 as part of the International Congress of Mathematicians in Vancouver, Canada;
- (vi) by collaborating with IFIP (International Federation for Information Processing) in the organisation of the Programme for its 2nd World Conference of Computer Education at Marseille, France in 1975;
- (vii) by increasing the spread of information concerning activities of ICMI and other matters of interest to mathematical educators through the publication of a series of Bulletins, of which this is the first.

Future Bulletins will give not only information on ICMI activities but also lists, both of journals related to mathematical education and of national and international plans for mathematical competitions. The Secretary, Dr E. A. Maxwell, will be most grateful to receive information from each country as soon as possible on both these topics for publication in ICMI Bulletins.

It is my sincere hope that these Bulletins will make really useful contributions to the promotion of international understanding among those involved in teaching that uniquely international mode of thought: mathematics.

James Lighthill

Department of Applied Mathematics
and Theoretical Physics,
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Cambridge CB3 9EW,
ENGLAND.

2. Origin and First Aims

At the Second International Congress on Mathematical Education held at Exeter, England, in August-September, 1972, there were many requests for improved methods for the dissemination of information. If successful, this Bulletin might be the first of a series to be issued periodically at intervals that it would be unwise to define.

In the first instance, attention is concentrated on names and addresses of representatives, and on information about impending Symposia and other meetings. It is essential that information for circulation should be sent in as early as possible.

It is also important to have the name and address of at least one person in each country to whom all communications from ICMI should be sent. Will you please make sure that this is done.

3. ICMI

It may be helpful to give a brief account of ourselves in this first issue. The International Commission on Mathematical Instruction (CIEM in French) is a Commission of the International Mathematical Union (IMU) charged with concern for educational matters in mathematics. Those countries which adhere to the Union (having their own National Committees for Mathematics) have representatives on ICMI and meet, with voting powers, at the General Assemblies of ICMI. Countries which do not adhere to IMU may nevertheless have representatives on ICMI, probably under the care of their Ministries of Education. By long tradition, meetings of the General Assembly are not restricted to delegates, though they alone have voting powers.

Different countries have varying organisations with respect to ICMI. The important thing is that the matters of concern to ICMI should be disseminated to teachers and all interested in Mathematical Education. The link from the Executive Committee of ICMI is through the Secretariat to the delegates, and it is their responsibility to see how information is communicated - in either direction.

The work of ICMI is through Reports and Symposia, but 1969 saw a significant step forward when, under the Presidency of Professor Freudenthal, the first International Congress on Mathematical Education (ICME) was held at Lyon. This has been followed by the Second Congress, at Exeter, England, 1972, and it is intended to hold further congresses at four-yearly intervals in 1976, 1980, ... , bisecting the intervals between the International Mathematical Congresses in 1974, 1978, ...

The Report of the 1972 Congress in Exeter will be distributed without further charge to all full members of the Congress and on sale to the general public. The language will be English, but it is hoped to publish translations if demand seems adequate.

Finally, a word on a point that sometimes causes confusion. The representatives that we have defined are appointed by their own countries. There are, in addition, a number of members appointed by IMU on personal grounds, representing no country in particular (though

they may, indeed, be the representatives for their own country also if so elected). These, at present, are:

Ex-Officio:

Professor H. Freudenthal, Past-President of ICMI
Professor H. Cartan, representing the President of IMU
Professor O. Frostman, Secretary of IMU
Professor A. Lichnerowicz, representative of IMU on the ICSU Committee on Science Teaching

"Members at Large":

Professors Sir James Lighthill, M. Barner, F. Châtelet, A. Gleason, L. Lombardo-Radice, Y. Mimura, J. Novak, H. Pollak, S. L. Sobolev, J. Surányi

The Executive Committee of ICMI is at present:

President: Professor Sir James Lighthill
Secretary: Dr. E. A. Maxwell
Vice-Presidents: Professor S. Iyanaga, J. Surányi
Members: Professors H. Freudenthal, H. Pollak, S. L. Sobolev

4. Symposia

The following note gives information known at the start of January 1973. It concerns symposia discussed and given ICMI sponsorship at the meeting of the General Assembly at Exeter.

1. Luxembourg. 3rd Mathematical Seminar at Echternach; 4 - 9 June, 1973
New Aspects of mathematical applications at school level.
Languages: French, German, English.
Apply before February 15, 1973, to
SÉMINAIRE CIEM,
c/o MR. JOS. HALLÉ,
LYCÉE CLASSIQUE, ECHTERNACH,
CCP 34 540 LUXEMBOURG.
2. Hungary. International Colloquium at Eger; 18 - 22 June, 1973.
Theoretical problems of teaching mathematics in primary schools.
Languages: English, French, Russian, German.
Apply as soon as possible (forms were requested for 30 September, 1972) to
A. RECSKI,
BOLYAI JANOS MATHEMATICAL SOCIETY,
SZABADSÁG TER 17.II.203,
BUDAPEST V,
HUNGARY.
3. Poland. Symposium at Warsaw; 1974.
Mathematics in Primary Schools (Children from 6 to 11 years of age.)
PROFESSOR Z. SEMADENI,
INSTITUTE OF MATHEMATICS,
POLISH ACADEMY OF SCIENCES,
UL. SNIADKICH 8,
WARSZAWA 1,
POLAND.
(Please mark envelopes, "Warsaw Symposium, 1974".)

4. Africa. Regional Conference. Probably Nairobi, 1974.
Interactions between mathematical education and linguistics.
DR D. SAINT-ROSSY,
UNESCO HOUSE,
MALIK STREET,
PO BOX 30592,
NAIROBI,
KENYA.
5. Japan. ICME-JSME Tokyo Conference: 1974.
Preliminary proposals: 5 - 9 November, 1974;
main subject, Curriculum and teachers' training.
Wide membership from Asia and Australasia is proposed, so that
the meeting may be truly regional.
PROFESSOR S. IYANAGA,
12-4, OTSUKA 6-CHOME,
BUNKYO-KU,
TOKYO,
JAPAN.
6. India. Regional Conference; late 1974.
The development of an integrated curriculum in mathematics for the
underdeveloped countries.
PROFESSOR P. L. BHATNAGAR,
DEAN OF STUDIES,
DEPARTMENT OF MATHEMATICS,
HIMACHAL PRADESH UNIVERSITY,
SIMLA 5,
INDIA.
7. Copenhagen. Symposium; 1974 or 1975.
Planning is at a preliminary stage. The theme will be on aspects
of geometry at school level.
PROFESSOR H. G. STEINER,
8580 BAYREUTH,
GESCHWISTER-SCHOLL-PLATZ 3,
GERMANY GFR.
8. IFIP Conference. Marseille; August 1975.
Plans are in hand for ICMI to be closely associated with this
conference of the International Federation for Information
Processing - the Second World Conference on Computer Education.
PROFESSOR J. HEBENSTREIT,
ECOLE SUPERIEURE D'ELECTRICITE,
10 AVENUE PIERRE LAROUSSE,
92 MALAKOFF,
PARIS,
FRANCE.

5. Addresses of representatives

Please send word at once if there should be any correction.

Argentina: Dr Luis A. Santalo,
Cochabamba 780,
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Buenos Aires,
Argentina.

Australia: Professor B. H. Neumann,
Department of Mathematics,
Institute of Advanced Studies,
Australian National University,
POB 4,
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ACT 2600,
Australia.

Austria: E. Hlawka,
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Belgium: Dr G. Noel,
Université de l'État à Mons,
Avenue Maistriau 19,
B.7000 Mons,
Belgium.

Brazil: Dr. L. Nachbin,
Avenida Vieira Souto 144,
Apto. 101,
Rio de Janeiro 95,
(Ipanema),
Brazil.

Bulgaria: Dr B. L. Petkanchin,
Sofia 64,
Elin-Pelin Str. 20,
Bulgaria.

Canada: Professor A. L. Dulmage,
University of Manitoba,
Winnipeg 19,
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Canada.

Czechoslovakia: Dr J. Vysin,
Nad Kralovskou oborou,
Praha 6,
Czechoslovakia.

Denmark: Dr S. Bundgaard,
Mat. Inst. Universitetsparken,
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Finland: Dr L. Kaila,
Bernadink 1,
Helsinki 13,
Finland.

France: Professor M. Glaymann,
14 rue de Chavril,
69 Ste Foy-les-Lyon,
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West Germany.

Germany DDR: Dr K. Hartig,
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Horterweg 16,
German Democratic Republic.

Greece: Dr C. Papaiponnou,
Jacovidou St 22,
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Holland: Dr P. G. J. Vredenduin,
van Wassenaerheuvel 73,
Oosterbeck,
Holland.

Hungary: Professor Dr J. Szendrei,
Szeged,
Aprilis 4,
Utja 6,
Hungary.

India: Dr P. L. Bhatnagar,
Himachal Pradesh University,
Summer Hill,
Simla-5,
India.

Ireland: Dr J. R. Timoney,
Mathematics Department,
University College Dublin,
Belfield, Dublin,
Eire.

Israel: Dr M. Maschler,
Department of Mathematics,
Hebrew University,
Jerusalem,
Israel.

Italy: Dr A. Pescarini,
Via Montenero 6,
Ravenna,
Italy.

Japan: Professor S. Iyanaga,
12-4 Otsuka 6,
Bunkyo-ku,
Tokyo,
Japan.

Luxembourg: Professor L. Kiéffer,
College d'Enseignement Moyen,
1 rue Jean Jaures,
Luxembourg.

Malawi: Dr Martyn Cundy,
Chancellor College,
PO Box 5200,
Limbe,
Malawi.

Norway: Dr A. Johansen,
Karl Flods Vei 5,
Oslo 9,
Norway.

Pakistan: Dr M. Raziuddin Siddiqi,
University of Islamabad,
77 E Satellite Town,
Rawalpindi,
Pakistan.

Poland: Professor Z. Semadeni,
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Polish Academy of Sciences,
Ul. Sniadeckich 8,
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Poland.

Portugal: Dr J. Sevasiao e Silva,
Rue Fernam Gomes 17,
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Lisboa 3,
Portugal.

Roumania: Dr G. C. Moisil,
Inst. de Matematica,
Str. Mihail Eminescu 47,
Bucuresti,
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Senegal: Dr S. Niang,
Universite de Dakar,
Fac. des Sciences
Dakar,
Senegal.

Spain: Dr Pedro Abellanas,
Isaac Peral 3,
Madrid 15,
Spain.

Swaziland: R. J. Waterston,
(address not known)

Sweden: Professor Hans Wallin,
Department of Mathematics,
University of Umeå,
Umeå,
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Switzerland: Professor A. Delessert,
1099 Servion,
(Vaud),
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Tunisia: Dr M. Bougila,
11 rue Duguesclin,
Tunis,
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United Kingdom: Dr E. A. Maxwell,
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USA: Professor R. P. Dilworth,
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USSR: Dr I. M. Yaglom,
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Addresses of Ex-Officio members:

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75 Paris (14),
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