

IMU

B U L L E T I N

OF THE

INTERNATIONAL MATHEMATICAL UNION

No. 17

JUNE 1981

--

SECRETARIAT :

COLLEGE DE FRANCE

11, Place Marcelin Berthelot
75231 PARIS CEDEX 05 -FRANCE

INTERNATIONAL MATHEMATICAL UNION

EXECUTIVE COMMITTEE

(1.1.1979 - 31.12.1982)

President : *Professor L. Carleson*

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 Professor J.W.S. Cassels
 Professor M. Kneser
 Professor O. Lehto
 Professor C. Olech

Past President : *Professor D. Montgomery*

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F O R E W O R D

We draw your attention on the extreme importance
of the contents of this Bulletin.

P L A N
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1. *Membership of the Union.*
2. *General Assembly of IMU : First Communication.*
 - . *Place and date*
 - . *Appointment of Delegations*
 - . *Election of Executive Committee, I.C.M.I. and C.D.E.*
3. *Procedure for the election of the E.C. of I.M.U.,
of I.C.M.I. and the Commission of C.D.E.*
4. *I.C.M. '82.*
 - . *Travel Grants for Young Mathematicians*
 - . *First Announcement*
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6. *World Directory of Mathematicians.*

1.

MEMBER COUNTRIES OF THE
INTERNATIONAL MATHEMATICAL UNION

The list of names and addresses below is the result of inquiries made at the beginning of this year. This list may not be complete, or some errors both as to names and addresses, or some changes, may occur. Therefore, the members of the Union are kindly requested to send corrections to the IMU secretariat as soon as possible.

<u>NAME</u>	<u>GROUP</u>	<u>NATIONAL ADHERING ORGANIZATION (NAO)</u> <u>NATIONAL COMMITTEE FOR MATHEMATICS (NC)</u>
ARAB REPUBLIC OF EGYPT	I	NAO ACADEMY OF SCIENTIFIC RESEARCH AND TECHNOLOGY (A.S.R.T.) c/o Dr. Konsouh, Director Department of Scientific Societies and International Scientific Unions 101 Kasr El-Einy Street CAIRO (ARAB REPUBLIC OF EGYPT)
		NC NATIONAL COMMITTEE FOR MATHEMATICS OF IMU Professor A.A. Ashour, chairman Faculty of Science University of Cairo CAIRO (ARAB REPUBLIC OF EGYPT)
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		Dues to : Academy of Scientific Research and Technology (A.S.R.T.) Address as above, copy to N.C.
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Prof. Mag. Dr. S. Grosser, chairman
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A-1090 WIEN (AUSTRIA)
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THE IMU
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nationales
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attn. : Prof. dr. Predag Obradovic
General Secretary

2.

GENERAL ASSEMBLY OF IMU

FIRST COMMUNICATION

TO ALL THE NATIONAL ADHERING ORGANIZATIONS OF
THE INTERNATIONAL MATHEMATICAL UNION

1. PLACE AND DATE OF ASSEMBLY

The Ninth General Assembly of the International Mathematical Union will be held at WARSAW (POLAND) on August 8 and 9, 1982, immediately before the International Congress of Mathematicians which is also going to be held in WARSAW from August 11 to 19, 1982.

2. DELEGATIONS AND THEIR VOTING STRENGTH

According to the Statutes of the Union, each National Adhering Organization "shall appoint and certify to the Secretary of the Union a delegation which shall have the number of votes corresponding to the Group in which it adheres as follows :

Group :	I	II	III	IV	V
Number of votes :	1	2	3	4	5

provided that the number of delegates shall not exceed the corresponding number of votes. Any National Adhering Organization which desires to ensure its full quota of representatives at meetings of the General Assembly by the appointment of alternates for its regularly named delegates may do so, provided that no such alternate shall be permitted to participate in the work of the General Assembly until he has been duly certified to the Secretary of the Union as assuming the powers and duties of the delegate he has been designated to replace. No person shall be a member of the delegation of more than one country. Voting by the General Assembly shall be by delegations, provided that each delegation

shall be free to cast the votes to which it is entitled either as a unit or divided in such a manner as it may determine".

3. DELEGATES AND ALTERNATES AND THEIR PARTICIPATION.

It follows from the above extract from the Statutes that :

- a) - the number of regular delegates from a member-country cannot exceed the number of its votes (it can of course, be smaller) ;
- b) - the number of alternates cannot exceed the number of regularly named delegates (there may, of course, be no alternate at all) ;
- c) - at any given question of the General Assembly, the total number of delegates either regular or alternate, representing a member-country, cannot exceed the number of votes of that member-country ;
- d) - and that the alternate delegates are permitted to participate in the work of the Assembly only after due notification to the Secretary.

4. APPOINTMENT OF DELEGATIONS

You are hereby requested to designate the delegation of your country. The names of your delegates, with alternates, if any, together with their addresses, may be please entered on the accompanying blank and returned, so as to reach the undersigned not later than March 1st, 1982.

This deadline is important since some of the delegates will be proposed for election to various Committees of the Assembly at the opening session.

Further information for the *stay* in WARSAW will be given in the *Second Communication.*

5. PROPOSALS FOR AGENDA

As provided for in the By-Laws of the Union, National Adhering Organizations may propose business to be transacted at the General Assembly ; such proposals shall reach the undersigned at least four months before the meeting, i.e. *not later than* April 8, 1982 and preferably before MARCH 20, 1982.

6. ELECTION OF THE NEW EXECUTIVE COMMITTEE

PROCEDURE FOR THE ELECTION : see below, page 19.

IMPORTANT : Suggestions from National Committees should reach the undersigned not later than DECEMBER 31, 1981.

The Executive Committee would like it to be clearly understood that no member of the Committee is elected to represent his country ; he is elected on his own merits, and is expected to serve the whole community of mathematicians which the Union represents.

7. I.C.M.I.

PROCEDURE FOR THE ELECTION : see below, page 20.

IMPORTANT : Each National Adhering Organization is hereby requested to give the undersigned, not later than DECEMBER 31, 1981 the name of the national delegate which it designates to serve as a member of I.C.M.I. for the term January 1, 1983 to December 31, 1986, with a copy addressed to the Secretariat of I.C.M.I, Professor Peter Hilton, Department of Mathematics, Case Western Reserve University, Cleveland, Ohio, 44106 U.S.A.

8. COMMISSION ON DEVELOPMENT AND EXCHANGE (C.D.E.) :

PROCEDURE FOR THE ELECTION : see below, page 20.

IMPORTANT : Each National Adhering Organization is hereby requested to give the undersigned, not later than DECEMBER 31, 1981, the name of the national delegate which it designates to serve as a member of the C.D.E. for the term January 1, 1982 to December 31, 1986, with a copy addressed to the Chairman of C.D.E., Professor . Hogbe-Nlend, c/o Université de Bordeaux-I UER de Mathématiques et d'Informatique, 351, Cours de la Libération, F-33405, Talence, France.

Please cut

INTERNATIONAL MATHEMATICAL UNION

GENERAL ASSEMBLY
=====

Warsaw, Poland
August 8 & 9, 1982

APPOINTMENT OF DELEGATIONS

You are hereby requested to designate the delegation of your country :
Please fill this form in CAPITAL LETTERS :

Country : Group of Adherence :
National Adhering Organization :
..... Number of Votes :
..... Number of Delegates :

DELEGATE(S) :

- 1. Name :
Address : ZIP Code
..... Telephone or Telex No.
- 2. Name :
Address : ZIP Code
..... Telephone or Telex No.
- 3. Name :
Address : ZIP Code
..... Telephone or Telex No.
- 4. Name :
Address : ZIP Code
..... Telephone or Telex No.
- 5. Name :
Address : ZIP Code
..... Telephone or Telex No.

ALTERNATE(S)

- 1. Name :
Address : ZIP Code
..... Telephone or Telex No.
- 2. Name :
Address : ZIP Code
..... Telephone or Telex No.

IMPORTANT : Please return this form, NOT LATER THAN MARCH 1, 1982 to :

IMU Secretariat
c/o Professor J.L. LIONS
COLLEGE DE FRANCE
11, Place Marcelin Berthelot
F-75231 PARIS CEDEX 05 (FRANCE)

3. PROCEDURE FOR THE ELECTION OF THE EXECUTIVE COMMITTEE OF I.M.U. :

The following procedure has been approved by postal ballot among member countries at a two-third majority :

1. - Not less than a year before the meeting of the G.A., the E.C. shall request proposals for the membership of the E.C. from National Committees, to be considered before the meeting of the E.C. in the spring before the Assembly.

The E.C. shall then draw up its own list of nominations and this shall be made known to delegates not later than the beginning of the meeting of the G.A. The E.C. shall make certain that the candidate is willing to serve if elected.

2. - Further nominations may be made in writing before the commencement of business on the second day of the meeting provided that they are signed by at least ten delegates and contain a statement by the candidate that he or she is willing to serve if elected.

Each nomination shall be for a specified office : President, Secretary General, Vice-President or Member at large of the E.C.

3. - On the first day of the meeting, the General Assembly shall appoint a Nominating Committee consisting of :

- a) the President (chairman) ;
- b) all Past Presidents who are present (ex-officio) ;
- c) eight further delegates.

Election to c) shall be from names either proposed by the President or proposed and seconded from the floor ; and shall be by show of hands unless the meeting decides otherwise.

4. - The Nominating Committee shall propose a slate from the nominations made under 1) and 2) above and shall make it known to the meeting.

No person shall be a candidate for more than one office.

5. - The General Assembly shall then elect the new Executive by written ballots.

The voting slips shall contain all the names nominated under 1) and 2) (unless a candidate withdraws), but no others.

A vote shall be invalid if more names are marked in any category than the

number of places to be filled (i.e. one each for President and Secretary, two for Vice-Presidents and five for Members at large).

A candidate for President or Secretary may be elected only if unopposed or if he or she obtains a majority of the votes cast. If the first ballot is indecisive, there shall be a second ballot.

In the ballots for Vice-Presidents and Members at large, the two or five candidates respectively who obtain the largest numbers of votes shall be declared elected.

In the event of a tie, the President shall decide.

NOTE : Statute 9 provides (inter alia) that : "each delegation shall be free to cast the votes to which it is entitled either as unit or divided in such a manner as it may determine".

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PROCEDURE FOR THE ELECTION OF THE EXECUTIVE COMMITTEE OF I.C.M.I. :

The rules for the election of I.C.M.I. Executive Committee are similar to those for the election of the Executive Committee of I.M.U. with the same Nominating Committee.

The E.C. shall request proposals for the membership of the E.C. of I.C.M.I. from National Committees and will conduct extensive consultations with the existing Executive of I.C.M.I. before proposing slates to the Nominating Committee.

No person can be a candidate for more than one office.

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PROCEDURE FOR THE ELECTION OF THE COMMISSION OF C.D.E.

A postal ballot is under process - and not yet completed at the moment of issuing the present Bulletin - to replace § 1 of the Terms of Reference for the Commission on Development and Exchange (C.D.E.) with the following text :

"The Commission shall consist of a Chairman, and nine other members (including the Secretary of IMU, ex-officio).

The rules for the election of the Commission are similar to those of the IMU E.C. and of the ICMI E.C., with the same Nominating Committee.

The E.C. shall request proposals for the membership of C.D.E. from National Committees and will conduct extensive consultations with the existing C.D.E. before proposing slates to the Nominating Committee".

Jacques-Louis LIONS
Secretary of I.M.U.



INTERNATIONAL CONGRESS OF MATHEMATICIANS
CONGRES INTERNATIONAL DES MATHÉMATIENS
INTERNATIONALER MATHEMATIKERKONGRESS
МЕЖДУНАРОДНЫЙ КОНГРЕСС МАТЕМАТИКОВ

4. IMPORTANT INFORMATION FOR I.C.M. '82 :

TRAVEL GRANTS FOR YOUNG MATHEMATICIANS

The International Mathematical Union has established a fund to facilitate the participation of well-qualified young mathematicians at the International Congress of Mathematicians, to be held at WARSAW (POLAND), *from August 11 to 19, 1982.*

The fund is primarily for young mathematicians from developing countries (not necessarily members of IMU), but deserving cases from countries where severe money regulations exist will also be considered.

A special effort is made for ICM '82 by IMU with a significant contribution from National Committees : therefore the sum available is about US Dollars 35,000. Other sources of funding are under investigation. But it may not be possible to help all deserving cases. On the other hand, grants will not cover the full expenses of those who are selected.

You are hereby requested to nominate young mathematicians from your country who are well-qualified and need financial support. You should give the names in order of priority together with addresses, brief curriculum vitae and any supporting evidence you wish to submit.

Candidates should in no case be more than 35 years old. The names of those invited as speakers to the Congress should not be included in your list.

The Chairman of the Travel Grants Fund is Professor HOGBE-NLEND, chairman of C.D.E.
➔ All applications should be sent to the Secretary of I.M.U. before February 1, 1982.

Travel Grants Committee of IMU
c/o Professor J.L. Lions,
Secretary IMU
Collège de France
11, Place Marcelin Berthelot
75231 PARIS Cedex 05
FRANCE

INTERNATIONAL CONGRESS OF MATHEMATICIANS

WARSAW

POLAND



FIRST ANNOUNCEMENT

The Organizing Committee is pleased to announce that the next International Congress of Mathematicians will be held in Warsaw, from Wednesday, August 11 to Thursday, August 19, 1982.

1. Mathematical Program

The work of the Congress will be divided into nineteen sections. There will be four types of activities at the Congress, namely (i) invited one-hour lectures (about 16), (ii) invited 45-minute lectures (about 130), (iii) short communications, and (iv) spontaneous seminars. Each of the one-hour lectures will survey the development of mathematics in some major area.

All invited lectures will be published in the Proceedings of the ICM-82. A complimentary copy will be sent to each ordinary member of the Congress.

All scientific activities of the Congress will be held at the Palace of Culture and Science, which is situated in the center of Warsaw. The 45-minute addresses will be given simultaneously in 6 rooms.

English, French, German and Russian are the official languages of the Congress.

2. Social Events

A reception, concerts and open-air entertainment will be arranged during the Congress. Orbis, the official travel agency of the Congress, will arrange short tours to various places in and around Warsaw. Orbis will also organize pre- and post-congress tours to historical places in Poland. A description of those tours will be contained in the Second Announcement.

To: International Congress of Mathematicians, ICM-82
Śniadeckich 8, P.O.Box 137, 00-950 Warsaw, Poland.

Please mail to reach the above address before October 15, 1981.

I should like to receive the Second Announcement of the ICM-82. (Please print 3 times your name and address)

3. Accommodation

Lodging will be available in hotels of various categories and in students' dormitories. Less expensive package accommodations will be provided.

4. Travel

The Second Announcement of the ICM-82 will advise members as to their arrival to Warsaw, describe Congress activities in detail and explain how to register. It will inform about the mathematical program, with instructions concerning the short communications and their abstracts and the organization of seminars. The social events will be described and the various possibilities for accommodation explained in detail, with all rates listed. A registration and room reservation form will be attached.

If you wish to receive the Second Announcement, please print your name and address on the form above and mail it to reach the ICM-82 before October 15, 1981. The Second Announcement will then be mailed to you before the end of 1981.

5. OTHER ANNOUNCEMENTS

INTERNATIONAL CONGRESS OF MATHEMATICIANS, 1986 : I.C.M. '86

➔ On behalf of the Executive Committee of IMU, invitations from prospective host for the ICM '86 should reach the Secretary of IMU before February 1st, 1982.

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NEXT INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION : ICME V

The next ICME is planned to be held at ADELAIDE (AUSTRALIA) in August 1984, on the invitation of the Australian Academy of Sciences.

The chairman of the Organizing Committee is Pr. John Mack, The University of Sydney, Australia.

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6. WORLD DIRECTORY OF MATHEMATICIANS

To : *The Chairmen of National Committees of IMU.*

1. The Executive Committee of the International Mathematical Union has commissioned the undersigned to collect the material for the 7th Edition of the WORLD DIRECTORY OF MATHEMATICIANS and to present it to the printers. As before, the Executive Committee asks for your assistance as to the names and addresses of those mathematicians in your country that should be listed in the new edition. The following general rules should be observed :
 - (i) The list of names should be ordered alphabetically according to surnames in Latin characters, and transcriptions from other alphabets should be made according to the rules adopted by the Mathematical Reviews. As for letter having ' , ~ , ' , ~ , / , please follow the rule adopted in the 6th edition.
 - (ii) Generally only one title, such as Dr, Doz, Prof, should be given, and the addresses should be as short as possible ; yet with ZIP code if available.
 - (iii) The general criterion of admissibility of a person to the 7th edition of the Directory is the existence of two (2) articles of his, reviewed either in the Mathematical Reviews or in the Zentralblatt or in the Referativnyi Zhurnal. To keep the Directory to a reasonable size, it is important that this general criterion be upheld, even if it implies the omission of names included in earlier editions of the Directory.
 - (iv) However, every National Committee has the privilege of adding a "discretionary supplement" of names in number not above 5% of the number under (iii). It should be observed that membership of a National Mathematical Society is neither a necessary nor a sufficient condition of admissibility.
2. The Executive Committee is fully aware that in many countries the Chairman of the National Committee must delegate the preparative work to a special Committee, working by questionnaires to Heads of Departments of Mathematics, Research Institutes, etc, but in no case to individual mathematicians. This is to enable the National Committees to be the judges of what the final list should be for their own countries.
3. The final list of names and addresses should be sent so as to reach the undersigned not later than 1 NOVEMBER 1981.

Professor Masayoshi NAGATA
Bureau of the W.D.M.
Department of Mathematics
Kyoto University
KYOTO 606 (JAPAN)

WORLD DIRECTORY OF MATHEMATICIANS

Sixth Edition (1979)

It is published under the auspices of the International Mathematical Union, with the cooperation of the National Committees of Mathematics.

The Directory contains about 20,000 names and addresses of Mathematicians from all over the world.

IF YOU ARE INTERESTED IN PURCHASING COPIES OF THE DIRECTORY

you are advised to order as follows :

outside Japan : IMU - WORLD DIRECTORY ACCOUNT
N° 0862/656205-82 in US Dollars
SCHWEIZERISCHE KREDITANSTALT
Zürich-Rigiplatz
Universitätstrasse 105-8033 ZÜRICH
(Switzerland)

inside Japan : BUREAU OF THE WORLD DIRECTORY OF MATHEMATICIANS

Mathematics Department
Faculty of Sciences
KYOTO UNIVERSITY
KYOTO 606 - Japan

Copies may be sent upon receipt of :

US Dollars : 20.00 per copy