

# IMU

**BULLETIN  
OF THE  
INTERNATIONAL MATHEMATICAL UNION**

No. 25  
SPECIAL NUMBER

TENTH GENERAL ASSEMBLY 1986

**SECRETARIAT**

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INTERNATIONAL MATHEMATICAL UNION

EXECUTIVE COMMITTEE

(January 1, 1983 - December 31, 1986)

President: Professor Jürgen Moser

Vice-Presidents: Professor L.D. Faddeev  
Professor J-P. Serre

Secretary: Professor Olli Lehto

Members: Professor S. Mizohata  
Professor G.D. Mostow  
Professor M.S. Narasimhan  
Professor Czesław Olech  
Professor J. Palis Jr.

Past President: Professor Lennart Carleson

TENTH GENERAL ASSEMBLY  
OF THE  
INTERNATIONAL MATHEMATICAL UNION

OAKLAND, CALIFORNIA, USA, July 31 - August 2, 1986

(Opening session: 10.00 a.m.)

AGENDA

1. Opening of the Assembly
2. Address by the President
3. Appointment of Committees
  - (i) Credentials Committee
  - (ii) Resolutions Committee
  - (iii) Tellers
  - (iv) Committee for Finance and Dues
  - (v) Nominating Committee
4. Change of Statutes
5. Members
6. Review of the activities of the Union:
  - A - (i) Symposia and conferences, (ii) IMU lectures,  
(iii) ICMI, (iv) CDE
  - B - (i) IMU Bulletin, (ii) World Directory of Mathematicians
7. Finance and dues:
  - A - Financial reports for the years 1982-1985
  - B - Budget for 1987-1990
8. Elections:
  - (i) Executive Committee of IMU
  - (ii) Executive Committee of ICMI
  - (iii) CDE
  - (iv) Representatives of IMU to ICSU, COSPAR, CTS
9. Adoption of Resolutions
10. Next meeting of the General Assembly
11. Any other item with the permission of the President

Report of the Executive Committee to the Tenth General Assembly

This report covers the period from July 1, 1982, to June 30, 1986.

Members

The Union has 52 members, with two new members admitted during the period of this report. Chile, admitted at the Ninth General Assembly of the Union, entered the Union on January 1, 1983, and Malaysia, following a ballot among the National Adhering Organizations, on January 1, 1985.

The group of adherence of Poland was lowered, following a ballot, from IV to III in 1983, and the group of Canada was raised from III to IV, also following a ballot, in 1986.

The members of the Union, as of January 1, 1986, were the following:

- Group I: Cameroon, Chile, China-Taiwan, Cuba, Egypt, Greece, Hong Kong, Iceland, Iran, Democratic People's Republic of Korea, Republic of Korea, Malaysia, Mexico, New Zealand, Nigeria, Norway, Philippines, Portugal, Singapore, Turkey, Viet Nam;
- Group II: Argentina, Austria, Bulgaria, Denmark, Finland, Ireland, Israel, Pakistan, Romania, South Africa, Spain, Yugoslavia;
- Group III: Australia, Belgium, Brazil, Czechoslovakia, Democratic Republic of Germany, Hungary, India, Netherlands, Poland, Sweden, Switzerland;
- Group IV: Canada, Italy;
- Group V: France, Federal Republic of Germany, Japan, United Kingdom, U.S.A., U.S.S.R.

The total voting strength is 116.

## Scientific activities of the Union

1982: With SEAMS General Meeting, Manila, Philippines, postponed from 1981. A grant from ICSU to this meeting was \$ 3000 (6036 Swiss francs).

1983: International Congress of Mathematicians, Warsaw, Poland, August 16-24, 1983.

The work of the Congress was divided into 19 sections with 145 invited lecturers. The participants were also able to give short communications and attend seminars. The Congress was attended by about 2200 participants from 65 countries. A more extensive description of the Congress has been printed in the IMU Bulletin No. 21. The Congress Proceedings came out in 1984.

The IMU subvention totalled \$ 43 337 (87 194 Sw. frs.).

IMU awarded travel grants to young mathematicians from developing countries and countries with severe monetary regulations to help them to attend the Congress. Grants were given to 33 persons from 21 countries; the total amount granted was \$ 32 345 (67 471 Sw. frs.).

In connection with the ICM, ICMI held a symposium on the Goals and the Content of General Mathematics Education, on August 17-22.

There were 15 invited lectures and a concluding panel discussion.

The grant by IMU was \$ 2000 (4 172 Sw. frs.).

Summer School on the History of Mathematics, Toronto, Canada, July 25 - August 2, 1983. The meeting aimed at improving mathematicians' competence in history for classroom use and acquainting historians of mathematics with the pedagogical needs of mathematicians. IMU granted \$ 2 000 (4 172 Sw. frs.) to this meeting.

The VIIth International Congress on Mathematical Physics, Boulder, Colorado, August 2-10, 1983. A wide variety of the most important recent developments in theoretical physics and mathematical techniques were presented. In addition to plenary sessions and sessions devoted to specialized topics, there were sessions for contributed papers and posters. The IMU support was \$ 4000 (8344 Sw. frs.).

The Second Inter-African Symposium on Partial Differential Equations, Yaoundé, Cameroon, September 26-30, 1983. About 70 mathematicians and engineers from 18 countries attended this meeting. The main lectures treated topics covering a selection of mathematical techniques in Partial Differential Equations likely to be useful in the solution of concrete problems. IMU granted \$ 4000 (8344 Sw. frs.) to the symposium.

Second International Conference on Operator Algebras, Ideals, and their Applications in Theoretical Physics, Leipzig, GDR, September 25 - October 2, 1983. The program was divided into three main topics: topological algebras and their representations, operator ideals and geometry of Banach spaces, and algebraic approach to quantum field theory and statistical physics. IMU granted \$ 1000 (2086 Sw. frs.) to the conference.

School Mathematics in and for Changing Societies, Tokyo, Japan, October 10-14, 1983. This conference was the main regional activity of ICMI in the early 80's. The meeting was attended by 380 participants from 27 countries. IMU/ICSU support was \$ 2000 (4 172 Sw. frs.).

1984: International Colloquium on Vector Bundles on Algebraic Varieties, Bombay, India, January 9-16, 1984. The purpose of the meeting was to highlight recent developments in the general area of vector bundles as well as principal bundles on both affine and projective varieties. Topics covered included also projective modules and quadratic spaces over general rings. IMU granted \$ 5000 (11640 Sw. frs.) to the colloquium.

ICMI-SEAMS Third Southeast Asian Conference on Mathematical Education, Hat Yai, Thailand, May 22-25, 1984. The theme of the conference was "Mathematics Education in the Computer Age". There were 150 participants from 12 countries. The program included invited lectures, contributed papers, panel discussions and informal group discussions. IMU granted \$ 1400 to this meeting, of which \$ 400 (931 Sw. frs.) are recorded in the 1984 accounts.

ELAM VII (Latin American School of Mathematics), Caracas, Venezuela, July 16-27, 1984. The main topic of the conference was differential equations with emphasis on geometric aspects. There were about 100 participants from various countries. IMU granted \$ 5000 to this meeting, \$ 441 of which was returned. Thus the final IMU contribution was 10613 Sw. frs.

The Fifth International Congress of Mathematical Instruction, Adelaide, South Australia, August 24-30, 1984. The Congress was attended by 1984 participants representing 69 countries. In addition to plenary lectures, there were action and theme groups, short communications and a number of exhibitions. IMU supported the Congress with \$ 15000 (43920 Sw. frs.)

International Conference on Contemporary Problems of Algebra and Analysis, Moscow-Leningrad, September 24-28, 1984. The conference was attended by 40 foreign and 120 Soviet mathematicians. There were plenary lectures, seminars and informal meetings both in Moscow and Leningrad. IMU supported this conference with 5000 Sw. frs.



ICMI received a sum of \$ 2000 (4656 Sw. frs.) from ICSU for its project Mathematics as a Service Study.

CDE received a grant of \$ 5000 (11640 Sw. frs.) from ICSU for the First Inter-African Symposium on Mathematical Modelling, Ibadan, Nigeria, August 1-12, 1984.

Professor M. Kashiwara from Kyoto University was appointed as the IMU lecturer in 1984. He gave a series of four lectures at the University of Berne; the lectures have been submitted for publication to *l'Enseignement Mathématique*.

1985: International Conference on Banach Spaces and Classical Analysis, Kent, Ohio, July 28 - August 10, 1985. The principal aim of this conference was to consolidate the insights made during recent years in harmonic analysis, complex analysis, and probability, from a Banach space perspective. The conference was attended by 275 mathematicians from over 35 countries. IMU granted 5000 Sw. frs. to this conference.

EQUADIFF 6 (International Conference on Differential Equations and their Applications), Brno, Czechoslovakia, August 25-30, 1985. The topic of the conference was differential equations in a broad sense. The main goal was to stimulate cooperation between various branches in differential equations. The conference was attended by 466 mathematicians from 31 countries. The IMU support was 7000 Sw. frs.

ICSU granted ICMI \$ 2000 (4920 Sw. frs.) for the International Seminar on the Influence of Computers and Informatics on Mathematics and its Teaching. ICMI organized this seminar on March 25-30, in Strasbourg, France.

ICSU granted \$ 5000 (12300 Sw. frs.) to CDE for the International Training Course on Partial Differential Equations of Fluid Mechanics.

## International Commission on Mathematical Instruction

## Report on the period 1983-1986

## 1. Executive Committee

Formal meetings of the Executive Committee were held in Adelaide, in August, 1984, and in Paris in February, 1986.

Informal meetings were held in Warsaw (August, 1983), Tokyo (October, 1983) and Strasbourg (March, 1985). A further informal meeting is planned for Berkeley (August, 1986).

## 2. Membership

The following countries have been admitted into membership of ICMI: Costa Rica, Cuba, Ghana, Ivory Coast, Mozambique.

## 3. General Assembly

A General Assembly of ICMI attended by representatives from 26 countries, was held in Adelaide, Australia in August 1984. A full-day General Assembly is planned for Budapest, Hungary in July 1988.

## 4. ICMI Studies

A feature of ICMI's work during the past years has been the launching of three studies:

## (a) The impact of the Computer and Informatics on Mathematics and its Teaching

A discussion document was prepared and published (in English) in L'Enseignement Mathématique in Summer 1984. (This document also appeared in translation in several other languages including French, Spanish, Japanese and Polish.)

A symposium was held in Strasbourg in March 1985 and was attended by some 70 participants (see Zentralblatt für Didaktik der Mathematik, 1986(2) for an account).

Arising from that meeting were two publications: the official proceedings which were published as ICMI Study Series 1 by the Cambridge University Press (1986), and a volume of 'Supporting Papers', published by the IREM, Strasbourg and distributed in North America by the Mathematical Association of America. An Arabic translation of the Proceedings is being prepared.

Follow-up talks have been given at other international conferences and a 'follow-up' meeting was arranged in Marseille-Luminy in January, 1986.

## (b) School Mathematics in the 1990s

A discussion document was widely circulated in 1985 and précis appeared in a number of mathematical journals.

A closed meeting of invited mathematics educators was held in Kuwait in February, 1986 under the generous patronage of the Kuwait Foundation for the Advancement of Science, the Kuwait Ministry of Education, and Kuwait University.

The Proceedings are being prepared and will appear as No. 2 in the ICMI Study Series.

## (c) Mathematics as a Service Subject

A discussion document relating to this study, which is being jointly undertaken with ICSU-CTS, will appear in English in the next issue of L'Enseignement Mathématique. Again, the document will also be published in various other languages.

An international meeting on the subject will be held at the International Centre for the Mechanical Sciences, Udine, Italy in April, 1987.

It is hoped soon to begin work on a study on 'cognition'.

Further areas being considered for future studies include:

The popularisation of mathematics;  
 Different modes of student assessment and their effects on teaching and learning;  
 Teacher education.

Money to fund the studies have been received from a number of agencies and institutions and it is intended to make a further appeal for funds.

## 5. Scientific Meetings

## (a) International Congress on Mathematical Education

A most successful congress was held in Adelaide in August, 1984. It was attended by just under 2000 members drawn from 69 different countries.

## (b) International Congresses of Mathematicians

A series of special sessions was arranged at the 1983 Warsaw ICM around the theme of 'What should be the goals and content of general mathematical education?'

A series of sessions surveying the range of ICMI activities is planned for the Berkeley ICM in August, 1986.

## (c) Regional Meetings

Regional meetings have been held in Japan (JSME) in October, 1983, Thailand (SEAMS) in May, 1984, and in Mexico (IACME) in November, 1985. Further meetings are provisionally planned for Singapore (SEAMS) in 1987 and Dominican Republic (IACME) in 1987.

## (d) Other meetings

In addition to the meetings to which reference has already been made, ICMI has helped sponsor a meeting on computers in developing countries (ICOMIDC/IFIP, Tunisia, 1986) and on classroom observation methods (England, September, 1986).

## (e) ICME 6

The Sixth ICME will be held in Budapest, Hungary in July/August 1988. An International Program Committee was appointed and met for the first time at Oxford, England in August, 1985. A second meeting is planned for July, 1986 in Hungary.

## (f) ICME 7

Bids to host ICME 7, 1992 have been received. It is hoped to make a decision in early 1987 on where ICME 7 will be held.

## 6. Bulletins

The following Bulletins have been published: No. 13 in February, 1983, No. 14 in October, 1983, No. 15 in January, 1984, No. 16 in June, 1984, No. 17 in December, 1984, No. 18 in June, 1985, and No. 19 in December, 1985.

## 7. ICMI Study Groups

The International Group for the Psychology of Mathematics Education has continued to hold an annual conference. These have been held in 1983 in Israel, in 1984 in Australia, in 1985 in the Netherlands, in 1986 in England, and will be held in 1987 in Canada and in 1988 in Hungary.

The International Study Group for the Relations between the History and Pedagogy of Mathematics has also continued to maintain a high level of activity.

## 8. IMO Site Committee

The IMO SC has continued to arrange appropriate sites for the annual International Mathematical Olympiads.

## 9. Finances

Copies of the ICMI accounts for the years 1983, 1984 and 1985 appear elsewhere in this Bulletin, together with a statement referring to the 'Studies' account held at the Fondation de France.

14 March 1986

A.G. Howson

## Commission on Development and Exchange

## Brief report of activities 1982-1986

## 1. Support of scientific activities in developing countries

Grateful to ICSU grants the CDE has financially supported four mathematical seminars in developing countries: Cameroon (1983), Brazil and Nigeria (1984) and Nigeria (1985).

## 2. Selective Bibliography of Mathematics

This project, adopted by the General Assembly of IMU in Warsaw (1982) is a programme to help developing countries to start constitution of their mathematical libraries taking in account their financial difficulties and the lack of local specialists. The first draft of this Selective Bibliography, prepared by DIEUDONNE has been published in 1985. Various contributions of many other mathematicians will be published in 1986.

## 3. Mathematical Directory of the developing countries

The purpose of this project is to collect and publish a maximum amount of information on the state of mathematics and mathematics institutions in the developing countries, especially relating to human and material resources, teaching and research activities and facilities. A questionnaire has been sent to all mathematical institutions in developing countries.

First contributions have been published in June 1985. A global directory is in preparation in cooperation with the International Centre for Pure and Applied Mathematics (Nice, France).

#### 4. Travel grants

Grateful to UNESCO grant, the CDE has contributed financially to ICME 5 (Adelaide) and to the IMU Programme of travel grants for ICM 86.

#### 5. Bulletin "Mathematics and Development"

The IMU/CDE has supported scientifically and financially (through UNESCO) the launching of this Bulletin in cooperation with ICPAM (International Centre for Pure and Applied Mathematics), Nice, France. The first issue was devoted to the Selective Bibliography of Mathematics, the second to the mathematical directory of developing countries and the third again to the Selective Bibliography of Mathematics.

#### 6. Cooperation with other organizations

The IMU/CDE has cooperated with various organizations to promote support of mathematical activities in developing countries, mainly with UNESCO, ICSU, Third World Academy of Sciences, International Centre for Pure and Applied Mathematics (Nice), International Centre for Theoretical Physics (Trieste). In this cooperation IMU/CDE has worked mainly as scientific advisor.

## Publications of the Union

Six issues of the Bulletin have come out during the four year period:

- No. 19, December 1982;
- No. 20, June 1983;
- No. 21, November 1983;
- No. 22, September 1984;
- No. 23, June 1985;
- No. 24, November 1985.

In addition to this Special Number Bulletin 25, No. 26 Bulletin will come out later in 1986.

## World Directory of Mathematicians

The final report for the 6th edition of the World Directory of Mathematicians was given by Professor M. Nagata in November 1982. The financial report is included among the other financial reports.

The 7th edition was prepared under the supervision of Professor M. Nagata. The printing was done by the American Mathematical Society, which was also one of the distributors. The other distributors were North-Holland and Kinokuniya. The directory was also sold directly from the Bureau of WDM in Kyoto. The financial report is printed elsewhere in this Bulletin.

The 8th edition is supervised by Professor G.D. Mostow, and the printing is done again by AMS. The 8th edition is due in the summer 1986.

## International Mathematical Union

Financial report for the years 1982-1985 in Swiss francs

	1982		1983-1986	1983	1984	1985
	Budget	Actual	Budget	Actual	Actual	Actual
Expenditure:						
Schedule A:						
Secretarial help, IMU office	11 700	11 916	15 000	-	-	-
Secretarial help, President	1 300	-	1 500	-	1 500	1 500
ICMI	900	4 024	4 000	4 000	4 000	4 000
CDE	-	2 012	3 000	3 000	3 000	3 000
C.I.S.	900	804	900	834	935	984
Office expenses (including postage)	5 200	-	6 000	980	179	2 923
Travel expenses of the E.C.	18 200	34 660	19 000	16 475	18 426	13 599
President's and Secretary's expenses	1 850	5 009	1 500	693	1 517	2 369
Contribution to ICSU	2 500	2 243	3 000	2 762	3 201	3 785
IMU Bulletin	2 600	5 831	3 000	497	479	572
Audit fee	1 000	3 236	1 500	1 446	1 397	1 476
General Assembly	2 600	(-3 232)	2 600	2 600	2 600	2 600
World Directory of Mathematicians	10 000	41 311	10 000	19 576	-	10 000
Contingencies	2 500	45	2 000	-	3 000	3 000
A. Total	61 250	107 859	73 000	52 863	40 234	49 808
Schedule B:						
Scientific activities	60 000	6 036	70 000	100 213	81 262	31 680
IMU Fellowship Fund	6 000	-	4 000	-	-	-
Consultative/Program Committee	4 000	-	4 250	4 067	8 993	9 453
IMU Development Fund	10 000	-	6 000	-	12 000	6 000
Subvention to ICM	18 750	-	18 750	18 750	18 750	18 750
B. Total	98 750	6 036	103 000	123 030	121 005	65 883
A+B. Total	160 000	113 895	176 000	175 893	161 239	115 691
Income:						
Membership dues	93 000	104 072	136 000	111 033	141 894	139 626
ICSU subvention	35 000	27 782	25 000	30 677	38 635	48 231
Sales of WDM	7 000	2 972	7 000	38 134	917	9 309
Special Appeal Fund	25 000	8 193	8 000	2 989	-	4 521
Bank interest (less charges)	-	3 621	-	4 122	5 306	15 842
Total	160 000	146 640	176 000	186 955	186 752	217 529

Balances of the Union's bank accounts at the end of the financial year, 1982-1985, in Swiss francs

Bank	1982		1983		1984		1985	
	Currency	CHF	Currency	CHF	Currency	CHF	Currency	CHF
Schweizerische Kreditanstalt, Zürich								
Current account, CHF		51 967		43 179		50 636		116 134
Reserve, CHF		80 281		82 063		84 628		-
Chase Manhattan, New York, USD	7 705	15 502	2 731	5 699		-		-
Société Générale, Paris, FRF	6 273	1 765		-		-		-
Bank Handlowy, Warsaw, USD	42 759	86 031		-		-		-
Dai-Ichi Kangyo, Kyoto, JPY	36 407	294	36 407	294	630 826	6 246		-
Kansallis-Osake-Pankki, Helsinki								
Current account FIM		-	13 092	4 708	12 215	4 479	4 049	1 609
USD		-	6 026	12 570	13 975	32 534	27 676	68 083
CHF		-		36 804		33 064		43 927
Long term CHF		-		-		40 000		40 000
Reserve CHF		-		-		-		84 804
Colonial Bank, New Haven, USD		-		-	16 137	37 567	24 999	61 499
Cash, FIM		-	188	77		-		-
Total, CHF		235 840		185 394		289 154		416 056



Subvention from the International Council of Scientific Unions (ICSU)  
in 1982-1985, in Swiss francs.

1982:	Basic allocation	21 746	
	Grant, CDE	<u>6 036</u>	27 782
1983:	Basic allocation	22 333	
	Grant (travel grants)	4 172	
	Grant, ICMI	2 086	
	Grant, CDE	<u>2 086</u>	30 677
1984:	Basic allocation	22 339	
	Grant, ICMI	4 656	
	Grant, CDE	<u>11 640</u>	38 635
1985:	Basic allocation	31 011	
	Grant, ICMI	4 920	
	Grant, CDE	<u>12 300</u>	48 231
	Total for 1982-1985		145 325
	Budget for 1982-1985		110 000

Financial report for scientific activities of the Union in 1982-1985  
in Swiss francs

1982:	SEAMS/CDE, Manila (ICSU)	6 036	
	(ICM 82	87 194)	6 036
1983:	Toronto	4 172	
	Boulder	8 344	
	Yaoundé	8 344	
	Leipzig	2 086	
	Travel grants	67 471	
	ICMI regional conferences	4 172	
	Warsaw	4 172	
	Other	1 452	100 213
1984:	Bombay	11 640	
	Caracas	10 613	
	Moscow	5 000	
	ICMI ICME 5	34 920	
	SEAMS/Hat Yai	931	
	ICSU grant	4 656	
	CDE, ICSU grant	11 640	
	IMU lectures	1 862	81 262
1985:	Kent	5 000	
	Brno	7 000	
	ICMI SEAMS (84)	2 460	
	ICSU grant	4 920	
	CDE, ICSU grant	12 300	31 680
Total for 1982-1985		(87 194) +	219 191
Budget for 1982-1985:			407 750

## Special Appeal Fund

Donations in the years 1983-1985 in Swiss francs

1983:

Wiskundig Genootschap	2 403	
London Mathematical Society	<u>1 600</u>	
	4 003	
Erroneous sum (82) credited	<u>- 1 012</u>	2 991

1985:

London Mathematical Society	3 589	
Danish Mathematical Society	<u>494</u>	4 083

Interest		<u>435</u>
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Total		7 509
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## International Mathematical Union

Membership dues paid in the years 1982-1985 in Swiss francs

Group of adherence	I	II	III	IV	V
Units of dues	1	2	3	7	10
Unit: 600 Swiss francs in 1982, 850 Swiss francs in 1983-1985.					

Country and group	Payment in			
	1982	1983	1984	1985
Argentina II	1200		1190 *	3875 **
Australia III	2400	3400	3400	3400
Austria II	1200	1700	1700	1700
Belgium III	2400 *	2400 *	3400 *	3400 *
Brazil III	3692	5853 **	3400	3400
Bulgaria II	1200	1700	1700	1700
Cameroon I	543	814	722	984
Canada III	2400	3400	3400	3400
Chile (member 1983) I	-	855	954	1046
China-Taiwan I	600	850	850	1700 <sup>1</sup>
Cuba I		1360 **	850	850
Czechoslovakia III	2400	3400	3400	
Denmark II	1200	1700	1700	1700
Egypt, Arab R. I	600		850 *	1700 **
Finland II	1200	1700	1700	1700
France V	5565	5651	10928 **	9924 **
German D.R. III	2400	3400	3400	3400
Germany, F.R. V	6000	8500	8500	8500
Greece I	1200 **	850	850	
Hong Kong I	600	850		1700 **
Hungary III	2400	3400	3400	3400
Iceland I	600	850		850 *
India III	2400	3400	3400	3400
Iran I	600	1450 **	850	850
Ireland II	1200	1700	1700	1700
Israel II	1143	1700	1700	1700
Italy IV	8400 *	4200 *	11900 **	5950

Country and group	1982	Payment in		
		1983	1984	1985
Japan V	6000	2500	14500 **	8500
Korea, D.R. I	590	850		1700 **
Korea, R. I	600	850	850	850
Malaysia (member 1985) I	-	-	-	850
Mexico I			2300 **	850
Netherlands III	1931		3400 *	6800 **
New Zealand I	600	841	850	850
Nigeria I	3000 **			615 *
Norway I	600	850	850	
Pakistan II		1200 *		
Philippines I	1800 **	850		782 *
Poland IV - III	5800 <sup>1</sup>		3400	3400
Portugal I	600	850		850 *
Romania II	1200 *			
Singapore I		1450 **	850	850
South Africa II	1200	1700	1700	1700
Spain II	1200	1700	1700	1700
Sweden III	2400	3400	3400	3400
Switzerland III	2400	3400	3400	3400
Turkey I			850	
United Kingdom V	6000	8500	8500	8500
U.S.A. V	5986	8959	8500	8500
U.S.S.R.	6000	6000	11000 **	8500
Viet Nam I		2050 **		
Yugoslavia II	2622 **			5100 **
Total	104072	111033	141894	139626

\* concerns payment for previous year(s)

\*\* includes a payment for previous year(s)

<sup>1</sup> includes an advance payment

Dues arrears as of December 31, 1985, in Swiss francs:

Belgium 3400, Czechoslovakia 3400, Greece 850, Iceland 850, Nigeria 1850 (1983,1984,1985), Norway 850, Pakistan 5100 (1983,1984,1985), Philippines 850, Portugal 850, Romania 6300 (1982,1983,1984,1985), Turkey 4700 (1978-1983,1985), Viet Nam 1700 (1984,1985).



## World Directory of Mathematicians

7th Edition (1982)

Financial report for the years 1983-1985:

The account at Dai-Ichi Kangyo Bank was closed at the end of the year 1985 and its balance was transferred to Colonial Bank, New Haven.

Colonial Bank, New Haven	USD	Swiss francs
Balance 1.1.1983	0	
AMS 7.7.1983	5 284	11 022
North-Holland 12.8.1983	3 000	6 258
AMS 5.8.1984	5 398.51	12 568
North-Holland 6.11.1984	1 125	2 619
Interest 1984	<u>1 329.44</u>	<u>3 095</u>
Balance 31.12.1984	16 136.95	35 562
AMS 1985	3 244	7 980
North-Holland 1985	540	1 328
Dai-Ichi Kangyo, transfer	3 702.24	9 108
Interest 1985	<u>1 375.99</u>	<u>3 385</u>
Balance 31.12.1985	24 999.18	57 363

The financial report above covers the sales for the years 1982-1984 for American Mathematical Society (748 copies) and North-Holland (371 copies) and the sales for the years 1982-1985 for Kinokunya and the Kyoto office of WDM (230 copies). AMS has reported the sales for 85 copies in 1985 and North-Holland for 14 copies. With 54 copies given or damaged, the remaining stock of the directories was, at the end of the year 1985, 538 copies out of a total of 2040 printed.

The following page consists of the final report on the World Directory account in Japan.

DEPARTMENT OF MATHEMATICS  
FACULTY OF SCIENCE  
KYOTO UNIVERSITY  
KYOTO, JAPAN

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Final Report on WDM-account in Japan

(1) Number of copies

At the start in 1982 (7th edition)	450
Balance at the end of 1984	255
Sold in 1985	35
Balance at the end of 1985	220

(2) Bank account

Balance at the end of 1984	¥630,826
Income through selling (35 copies)	¥122,100
Interests	¥5,072
Total	¥757,998

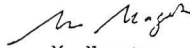
(3) Sending the amount to WDM-account in USA

Bank charge	¥2,500
Exchange rate	¥203.90
$(757998 - 2500) / 203.9 = 3705.2378$	

Thus the amount of  $\$3,705.\overset{24}{}$  was sent to WDM-account at Professor G. Mostow.

Since I do not expect any more selling of the copies of the 7th edition, I closed the bank account in Japan, and this report is the final report on the WDM-account in Japan.

December 16, 1985



M. Nagata



## ICMI Accounts

1983

Dollar Account (as at 3 January 1984)

<u>Income</u>	\$	<u>Expenditure</u>	\$
Transfer of ICMI funds on 31.12.82 from P.J. Hilton	3 000 (A)	ICME 5	6 500
IMU Contribution 1982	2 000	Regional Meetings	
IMU Warsaw	2 000	SEAMS	1 000
IMU Regional Meetings	2 000	Japan	1 000
IMU to ICME 5	5 000	Warsaw	
Transfer of money loaned to IPC	343	Room hire	900
IMU to EC travelling expenses (see also Sterling account)	165	Grants for travel	3 100 (B)
UNESCO Bulletin 13	1 000	EC travelling expenses	295
UNESCO Bulletin 14	1 000	(see also Sterling account)	
UNESCO to Warsaw ICM	<u>2 500</u>		<u>12 795</u>
	19 008		
Interest (less bank charges)	<u>317</u>	Bank balance at 3 January 1984	<u>6 530 (C)</u>
	<u>19 325</u>		<u>19 325</u>

Sterling Account (as at 3 January 1984)

<u>Income</u>	£	<u>Expenditure</u>	£
Transfer from P.J. Hilton	122	AGH's visits to Paris (1982-83 (3))	274
Transfer from E. Stenson (ICMI Bulletin account)	505	Other secretarial expenses	6
IMU contribution for 1983	1 289	Reproduction and postage	
IMU to EC expenses	322	Bulletin 13	165
Royalties on <u>Developments in</u> <u>Mathematical Education</u>	<u>23</u>	Bulletin 14	99
	2 261	EC travelling expenses	200
		AGH visit to Paris (7-8.1.84)	72
		University of Southampton: secretarial expenses	<u>400</u>
			1 216
Interest (less bank charges)	85	Bank balance at 3 January 1984	
	<u>2 346</u>	Deposit	1 033
		Current	<u>97</u>
			<u>2 346</u>

## ICMI Accounts

January - December 1984

Dollar Account

<u>Income</u>	§	<u>Expenditure</u>	§
Bank balance at		ICME 5	5 000
3 January 1984	6 530	SEAMS/ICMI Meeting	400
IMU for ICME 5	5 000	Secretarial expenses ICME 5	277
IMU for Secretarial		Transfer to Current Account	4 000
expenses	1 782	Balance at	
UNESCO for Bulletin 15	1 000	4 January 1985	15 172 *
IMU for SEAMS/ICMI			
Meeting	400		
IMU for EC expenses	1 307		
IMU for ICSU grant	2 000		
IMU for ICME 6	5 000		
UNESCO for Bulletin 16	1 000		
Interest (less charges)	830		
	<u>24 849</u>		<u>24 849</u>
*Commitments include			
ICME 6	§ 6 500		
Warsaw Symposium			
Proceedings	§ 500		
Total	§ 7 000		

Sterling Account

<u>Income</u>	£	<u>Expenditure</u>	£
Bank balance at		A.G.H. visit to Paris	
3 January 1984	1 130	Jan 7/8	29
Royalties on Developments		Postage (Bulletin 15)	60
in Mathematical Education	34	Printing (Bulletin 15)	75
Transfer from Dollar		EC Expenses	
Account	3 306	Z. Semadeni (Southampton)	31
Interest (less charges)	37	J-P. Kahane (Bielefeld)	201
		B. Christiansen (Adelaide)	150
		A.G.H. (Adelaide)	104 **
		A.G.H. (Budapest)	199
		B. Nebres (Southampton)	10
		Postage (Bulletin 16)	64
		Printing (Bulletin 16)	80
		Balance at	
		4 January 1985	3 504 *
	<u>4 507</u>		<u>4 507</u>
* Commitments include:			
Service Study	1 653		
Southampton University	500		
Postage and Printing	175 (Bulletin 17)		
	£ 2 328		

\*\* Includes cost of presentations to organizers

ICMI Accounts  
4 January 1985 - 8 January 1986

Dollar Account

<u>Income</u>	\$	<u>Expenditure</u>	\$
Balance at 4 January 1985	15 172	ICME 6 (to Budapest)	1 500
IMU Secretarial and EC expenses	2 617	Strasbourg (Computer Study)	3 840
UNESCO Oxford meeting	2 000	IPC (Oxford meeting)	800
ICSU Strasbourg	2 000	Ivory Coast meeting	500
IMU Ivory Coast Meeting	500	Transfer to Sterling Account	6 000
UNESCO Bulletins	<u>2 000</u>	Service Study P.C.	505
		Balance at 8 January 1986	11 856
	24 289		
Interest (less charges)	<u>712</u>		
	<u>25 001</u>		<u>25 001</u>

Sterling Account

<u>Income</u>	£	<u>Expenditure</u>	£
Balance at 4 January 1985	3 504	Soton University (for 1984)	500
CUP Royalties	90	Bulletins and postage	509
Royal Society (for Studies)	1 000	Service Study	50
Sweden (postage)	20	Strasbourg	889
Transfer from dollar account	4 694	IPC meeting	2 511
ICME 5 (Repayment of loan)	2 923	AGH visit to Paris (June)	183
CDE (Repayment of expenses)	<u>2 214</u>	Nottingham meeting	150
	14 445	Service Study P.C.	376
		Soton University (1985)	
Interest (less charges)	590	services	850
		Balance on 8 January 1986	
		Higher Rate	8 714
		Current	<u>303</u>
	<u>£ 15 035</u>		<u>£ 15 035</u>

French Franc Account

<u>Income</u>		<u>Expenditure</u>	
Transfer from Strasbourg	20 722	Service Study P.C.	2 000
Interest	<u>143</u>	Balance at 8 January 1986	<u>18 865</u>
	<u>20 865</u>		<u>20 865</u>

- I C M I -

Fondation CIEM, no. 050155

Situation arrêtée au 27.02.86

Débit

Cornu	742,40
Pluvinage	462,00
Churchouse (Réunion Paris ENS)	2 251,57
Van Lint	1 606,57
Ralston	5 714,12
 Enseignement Mathématique	 2 582,47
 Symposium Strasbourg	 40 000,00
 Journées Marseille-Luminy	 5 000,00
	<hr/>
	58 358,73
 BALANCE .....	 31 897,43
	<hr/>
	<u>90 256,16</u>

Crédit

Dons entreprises Hermann	1 000,00
" " IBM Europe	39 906,16
" " IBM France	20 000,00
 UNESCO (The Influence of computers...) (preliminary study)	  5 000,00
 UNESCO (les Math. comme instrument..) (étude préliminaire)	  4 000,00
 UNESCO (The Influence of computers...)	14 350,00
 UNESCO (les Math. comme instrument..)	6 000,00
	<hr/>
	<u>90 256,16</u>

*W. Kahan*

# INTERNATIONAL MATHEMATICAL UNION (I.M.U.)

30

- Commission on Development and Exchange (C.D.E.) -  
Chairman : Professor Henri HOGBE-NLEND (Cameroon)

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03 MARCH, 1986

## C D E FINANCIAL STATEMENT (1982-1986)

(in U.S. Dollars)

<u>YEAR</u>	<u>A C T I V I T I E S</u>	<u>INCOME</u>	<u>EXPENSES</u>
<u>1982</u>	C D E Secretariat	1 000	1 000
	ICMI Tokyo Symposium	1 000	-
	ICM 82 Travel Grants	24 355	-
	-----		
<u>1983</u>	ICMI Tokyo Symposium	-	1 000
	ICM 82 Travel Grants	-	24 000
	Cameroon Symposium	4 000	4 000
	C D E Secretariat	1 421,53	1 421,53
	-----		
<u>1984</u>	ICM 82 Travel Grants	-	355
	Brazil Symposium (ICSU)	5 000	5 000
	Nigeria Symposium (ICSU)	5 000	5 000
	C D E Secretariat	1 161,88	1 161,88
	-----		
<u>1985</u>	UNESCO	8 000	-
	ICMI 5	-	2 875
	ICM 86 Travel Grants	-	5 125
	Nigeria Symposium (ICSU)	5 000	5 000
	C D E Secretariat	1 116,90	1 116,90
	-----		
<u>1986</u>	CDE Secretariat	1 409.20	-
	-----		
<u>TOTAL</u>		58 464.51	57 055.31
		=====	=====

MARCH 1986

 H. HOGBE-NLEND

Postal ballots conducted among the National Adhering Organizations in the years 1983-1985:

- No. 20      May 5 - July 1, 1983  
Change of Group of Poland from IV to III  
34 countries answered with 76 votes, all of them in favor  
Total voting strength: 114 votes
- No. 21      October 12 - December 15, 1984  
Admission of Malaysia to the Union  
36 countries answered with 82 votes, all of them in favor  
Total voting strength: 114 votes
- No. 22      May 27 - October 1, 1985  
Change of Group of Canada from III to IV  
30 countries answered with 67 votes, all of them in favor  
Total voting strength: 115

Executive Committee business conducted by postal ballot:

- No. 1      August 1983  
Support for the Second Inter-African Symposium on Partial  
Differential Equations, \$ 4000 granted.
- No. 2      August 1984  
Admission of Malaysia to IMU.  
Support for "Banach Space Theory and Classical Analysis",  
5000 Swiss francs granted.
- No. 3      October 1984  
Admission of Ghana to ICMI.
- No. 4      January 1985  
Admission of Ivory Coast to ICMI.

Executive Committee meetings in 1982-1986:

43rd meeting, Paris, April 1-2, 1982

44th meeting, Warsaw, August 7, 1982

45th meeting, Paris, November 13, 1982

46th meeting, Helsinki, April 28-29, 1983

47th meeting, Zürich, May 3-4, 1984

48th meeting, Paris, May 9-10, 1985

49th meeting, Paris, April 3-4, 1986

50 the meeting will be held in Oakland, on July 30, 1986.

Union representation at the meetings of ICSU and other international organizations

The Secretary of the Union, O. Lehto, has been the Union representative to ICSU. He has attended the 20th General Assembly of ICSU in Ottawa, September 23-28, 1983, and the meeting of the General Committee of ICSU in Munich, October 13-15, 1985, as a union member of the General Committee.

The President of the Union, J. Moser, has been the Union representative to COSPAR. He attended the COSPAR Plenary Meeting in Graz, June 25 - July 7, 1984.

Professor H. Hogbe-Nlend has represented the Union at CTS.