

# **IMU**

**BULLETIN  
OF THE  
INTERNATIONAL MATHEMATICAL UNION**

**No. 20 June 1983**

**SECRETARIAT**

**Department of Mathematics  
University of Helsinki  
Hallituskatu 15  
SF-00100 Helsinki 10  
Finland**

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 Czeslaw Olech Professor J. Palis Jr.
Past President:	Professor Lennart Carleson

## MEMBERS OF I.M.U.

The following countries were members of the Union on January 1, 1983:

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

46TH MEETING OF THE EXECUTIVE COMMITTEE OF I.M.U.

The Executive Committee, elected at the General Assembly in Warsaw in 1982, had its first meeting on April 28 and 29, 1983, at the University of Helsinki. All members of the Committee were present.

INTERNATIONAL CONGRESS OF MATHEMATICIANS

ICM 82

Warsaw, August 16 to 24, 1983

Information from the Organizing Committee

IMPAN  
Sniadeckich, 8  
P.O. Box 137  
00-950 Warsaw  
Poland

## SPECIAL DEVELOPMENT FUND

The Special Development Fund aids IMU to fulfill the important obligation of helping developing countries within the framework of mathematical research. The means of the Fund, which go unreduced to mathematicians from developing countries, are used primarily for travel grants to young mathematicians, to make them possible to participate in International Congresses of Mathematicians. The Executive Committee of IMU elects an international committee to distribute the grants.

Means to the Special Development Fund come from donations. Donations can be sent at any time and in any convertible currency, to the following accounts:

Schweizerische Kreditanstalt  
Stadtfiliale Zürich-Rigiplatz  
Universitätstrasse 105  
CH-8033 Zürich  
Switzerland  
Account number 0862-656208-21

Kansallis-Osake-Pankki  
Aleksanterinkatu 42  
SF-00100 Helsinki 10  
Finland  
Account number 100020-411-USD-5705 FR.

The next goal is to collect money for travel grants for the 1986 International Congress of Mathematicians in Berkeley.

On behalf of the whole Union, the Executive Committee expresses its deep gratitude to the Wiskundig Genootschap (Netherlands) for the donation of Dfl 3000 to the Special Development Fund.

SCIENTIFIC ACTIVITIES OF THE UNION

1983:

VIIth Latin American School of Mathematics, Caracas, Venezuela, July 16 to 27, 1983. The Executive Committee decided to support this conference with the amount of USD 5000. Professor J. Palis Jr. was appointed the IMU representative.

Summer School on the History of Mathematics, Toronto, Canada, July 25 to August 5, 1983. The support of USD 2000 has been granted. Professor J. Dauben has been appointed the IMU representative to this conference.

VIIIth International Conference on Mathematical Physics, Boulder, Colorado, U.S.A., August 2 to 11, 1983. IMU support for this conference is USD 4000 and IMU representatives Professors T. Kato and D. Ruelle.

ICMI Warsaw Symposium, Warsaw, Poland, August 17 to 19, 1983. The Executive Committee decided to grant the symposium USD 2000.

Second International Conference on Operator Algebras, Ideals and their Applications in Theoretical Physics, Leipzig, DDR, September 25 to October 2, 1983. The financial support to this conference is USD 1000 and Professor Pelczynski was appointed the IMU representative.

ICMI-JSME Regional Conference on Mathematical Education, Tokyo, Japan, October 10 to 14, 1983. The IMU support of USD 1000 has been granted.

1984:

International Colloquium on Vector Bundles on Algebraic Varieties, Bombay, India, January 9 to 16, 1984. The support of USD 5000 has been granted. Professors M.F. Atiyah and M.S. Narasimhan were appointed IMU representatives.

The Third Southeast Asian Conference on Mathematical Education, Thailand, May, 1984. The support of USD 1400 has been granted.

The Fifth International Congress on Mathematical Education, Adelaide, Australia, August 24 to 30, 1984. IMU has decided to support this congress with the amount of USD 15 000.

## FINANCIAL REPORT

for the period January 1st, 1982, to December 31st, 1982:

## Income:

The Union had the following sources of income during the year:

- A) Dues from member countries
- B) Special Development Fund
- C) ICSU/UNESCO contributions
- D) Grants
- E) World Directory of Mathematicians
- F) Interests on bank accounts
- G) Exchange difference.

A) During the financial year 1982, the following dues were paid:

Argentina	II	1200 SFR
Australia	III	2400 SFR
Austria	II	1200 SFR
Belgium	III	2400 SFR (1981 dues)
Brazil	III	1835.24 USD
Bulgaria	II	1200 SFR
Cameroon	I	270 USD
Canada	III	2400 SFR
China-Taiwan	I	600 SFR
Czechoslovakia	III	2400 SFR
Denmark	II	1200 SFR
Egypt	I	600 SFR
Finland	II	1200 SFR
France	V	17 941 FFR
Fed. R. of Germany	V	6000 SFR
Dem. R. of Germany	III	2400 SFR
Greece	I	1200 SFR (also 1981)
Hong Kong	I	600 SFR
Hungary	III	2400 SFR



Iceland	I	600 SFR
India	III	2400 SFR
Iran	I	600 SFR
Ireland	II	1200 SFR
Israel	II	567.51 USD
Italy	IV	8400 SFR (80 and 81)
Japan	V	6000 SFR
D.P.R. Korea	I	590 SFR
Rep. of Korea	I	600 SFR
Netherlands	III	6225 FFR
New Zealand	I	600 SFR
Nigeria	I	3000 SFR (78, 79, 80, 81 and 82)
Norway	I	600 SFR
Philippines	I	1800 SFR (80, 81 and 82)
Poland	IV- III	5800 SFR (83)
Rumania	II	1200 SFR (81)
South-Africa	II	1200 SFR
Spain	II	1200 SFR
Sweden	III	2400 SFR
Switzerland	III	2400 SFR
United Kingdom	V	6000 SFR
U.S.S.R.	V	6000 SFR
U.S.A.	V	2975.40 USD
Yugoslavia	II	2622 SFR

Totalling 85212 SFR, 5648.15 USD, and 26024 FFR.

The following countries had not paid their dues for 1982 by the end of the year: Belgium (III), Cuba (I), Italy (IV), Mexico (I), Pakistan (II) (1970-), Rumania (II), Singapore (I), Turkey (I) (78-), Viet Nam (I) (81,82).

#### B) Special Development Fund

Contributions were made by:

Italy	5800 SFR
United Kingdom	709 SFR
Yugoslavia	250 SFR

(The sum of USD 485 placed in the Special Development Fund as a contribution of Israel in 1982 was a result of a mistake by the Chase Manhattan Bank. The sum has been withdrawn in 1983.)

GUY ELBAUM

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diplômé de l'Institut d'Études Politiques de Paris  
diplômé d'Études Supérieures de Droit  
expert comptable diplômé  
commissaire aux comptes

This and the following six  
pages are taken from the  
audited accounts.

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INTERNATIONAL MATHEMATICAL UNION  
Collège de France

11 place Marcelin Berthelot  
75231 PARIS CEDEX 05

Dear Sirs,

In accordance with your instructions, we have prepared from the Union's accounts and from the information and explanations supplied to us by the Executive Secretary the balance sheet, statement of income and expenditure and annexed notes for the year ended December 31, 1982.

Report of the auditors to the INTERNATIONAL MATHEMATICAL UNION.

Transactions and costs in JAPAN and in the UNITED STATES OF AMERICA relating to the World Directory of Mathematicians have been included in the following Financial Statements based on information supplied to us by the persons concerned in the respective countries. We are unable to form an opinion regarding this information.

In accordance with Note 4 to the accounts stocks of World Mathematicians Directories have not been evaluated for accounts purposes.

In our opinion, subject to the foregoing comments regarding the World Directory of Mathematicians, for which the Union expensed in 1982 \$ 20 516 (see note 8), the balance sheet and the income and expenditure accounts set out on page 2 to 3 together with the notes attached thereto give a true and fair view of the state of affairs of the INTERNATIONAL MATHEMATICAL UNION at December 31, 1982.

Paris, 15th February, 1982

  
Guy ELBAUM

## BALANCE SHEET AT DECEMBER 31, 1982

	<u>NOTES</u>	(expressed in US dollars)	
		<u>1982</u>	<u>1981</u>
<b>ASSETS</b>			
Bank and cash	5		
Current accounts		75 885	109 540
Deposit account		37 571	46 132
Cash		-	22
		-----	-----
Prepayments	6	113 576	155 694
		34 345	8 500
		-----	-----
<b>TOTAL ASSETS</b>		<b>147 921</b>	<b>164 194</b>
<b>LESS : LIABILITIES</b>			
Creditors and accruals		5 693	13 782
		-----	-----
<b>Excess of assets over liabilities</b>		<b>142 228</b>	<b>150 412</b>
		=====	=====
Represented by			
<b>ACCUMULATED FUNDS</b>			
<b>General funds</b>			
Balance at December 31, 1981		112 453	134 228
Excess of income over expenditure		(3 562)	(9 645)
Transfer to Congress fund		(10 000)	(12 130)
		-----	-----
Balance at December 31, 1982		98 891	112 453
<b>General assembly fund</b>			
Balance at December 31, 1981	7	4 622	3 145
Transfer to income and expenditure account for set-off against 1982 General Assembly cost		(4 622)	1 477
		-----	-----
Balance at December 31, 1982		-	4 622
<b>International Congress fund</b>			
Balance at December 31, 1981	7	33 337	22 684
Transfer from General fund		10 000	10 553
		-----	-----
Balance at December 31, 1982		43 337	33 337
		-----	-----
		142 228	150 412
		=====	=====

The notes set out on pages 4 to 7 form an integral part of these accounts.

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED DECEMBER 31, 1962

	NOTES	1962	1961
<b>INCOME</b>			
	2		
Allocation from UNESCO, grant to ICSU		15 808	12 601
Contributions from National Members		52 959	44 663
Special appeal fund		4 072	422
Sale of publications		1 477	1 520
Bank interest		2 427	1 626
Net exchange (loss) / gain		(27 089)	(5 249)
		-----	-----
		47 654	55 974
<b>EXPENDITURE</b>			
	3		
<b>A. MEETINGS</b>			
Representation at meetings		14 409	7 523
General Assembly			
Cost	3 016		
LESS : General Assembly fund	(4 622)	(1 606)	-
		-----	-----
		12 803	7 523
<b>B. PUBLICATIONS</b>			
	8	23 431	3 538
<b>C. SCIENTIFIC ACTIVITIES</b>			
ICM Consultative Committee		-	7 100
Colloquia		(3 000)	22 370
Other activities			
Exchange commission		1 000	11 630
		-----	-----
		(2 000)	41 160
<b>D. ADMINISTRATIVE EXPENSES</b>			
Grant to C.I.S.		400	400
Grant to I.C.M.I.		2 000	2 000
Contribution to ICSU		1 115	1 260
Audit fees		1 606	1 533
General office expenses		8 412	7 172
Travel expenses		2 818	-
Bank charges		629	623
		-----	-----
		16 982	13 008
		-----	-----
		51 216	65 169
		=====	=====
<b>EXCESS OF INCOME OVER EXPENDITURE</b>		(3 562)	(9 645)
Allocated to :			
General fund		(3 562)	(9 645)
General assembly and International Congress fund		-	-
		-----	-----
		(3 562)	(9 645)
		=====	=====

The notes set out on pages 4 to 7 form an integral part of these accounts.

Notes to be read in connection with the financial statements

Principal accounting principles:

1. CURRENCY

The financial statements are expressed in US dollars. Balances in other currencies have been translated into US dollars by applying the UNESCO standard rates of exchange as at December 31, 1982.

Income and expenditure for the year was translated at the rates applying at the date of payment, except for transactions in connection with the World Directory of Mathematicians which were translated at the UNESCO average rate for 1982.

These standard rates closely follow quoted market rates.

2. INCOME

Contributions and grants have been recorded on a cash basis as in previous years. That is to say only contributions actually received during the year have been taken as income. Therefore, no account has been taken of contributions due but not received by December 31, 1982.

3. EXPENDITURE

Expenditure is recorded on an accruals basis. That is to say all expenses incurred during the year have been included in the accounts whether paid or not.

4. STOCK OF MATHEMATICIANS DIRECTORIES

As in previous years no account has been taken in these accounts for the stock of directories in existence at December 31, 1982.

NOTES TO BE READ IN CONNECTION WITH THE FINANCIAL STATEMENT

OTHER NOTES

5. BANKS AND CASH

The amount held with banks is made up as follows

		1982		1981		
		Currency	US \$	Currency	US \$	
The Chase Manhattan Bank	FRANCE	US \$	-	7 705	-	12 306
Credit Swiss	SWITZERLAND					
- Current account		FS	51 967	24 398	132 606	75 344
- Current account		US \$	-	-	-	539
- Deposit account		FS	80 281	37 691	81 192	46 132
Société Générale	FRANCE	FF	6 273	877	9 301	1 646
Day Ichikangyo	JAPAN	YEN	36 407	146	2 210 334	10 377
Bank Handlowy (see note)	POLAND	US \$	42 759	42 759	-	146 344
			=====		=====	9 328
				113 576		155 672
Cash in hand				-		22
				=====		=====
				113 576		155 694
				=====		=====

Note : The funds held in Poland are allocated to cover IMU's contribution to the costs of the Congress which was due to be held in 1982 and will now be held in 1983.

6. PREPAYMENTS

Contribution given in respect of the 5th ICME Congress to be held in 1984

5 000

Advance payment in respect of conference

Colorado  
Japan

4 000  
1 000

5 000

Advance payment in respect of Travel Grant made in respect of the IMU Congress to be held in Poland

24 345  
-----  
34 345  
=====

NOTES TO BE READ IN CONNECTION WITH THE FINANCIAL STATEMENTS

7. GENERAL ASSEMBLY AND INTERNATIONAL CONGRESS FUNDS

These funds represent the amounts set aside to cover the following

Provided in year ended -----	1982 International Congress -----	1982 General Assembly -----	Total -----
31.12.1979	11 719	1 625	13 344
31.12.1980	10 965	1 520	12 485
	-----	-----	-----
31.12.1981	22 684	3 145	25 829
Transfer from General funds due to the excess of expenditure over income for the year	10 653	1 477	12 130
	-----	-----	-----
	33 337	4 622	37 959
	=====	=====	=====

Balance 31.12.1982

Supplementary transfer from the General Fund (made at the request of the Congress Organising Committee Chairman, and approved by the executive Committee)	10 060	)	)
General Assembly 1982		)	)
Transfer to income and expenditure account		(4 622)	)
	-----	-----	5 378
	43 337		-----
	=====	=====	43 337
			-----

Organising travel costs in connection with the General Assembly and the transfer of IMU's secretary to Finland, amounting to \$ 2 690 do not appear in these accounts as there were supported by the "Collège de France".

## 8. PUBLICATIONS

Publication expenditure is made up as follows :

	1982	1981
	-----	-----
I.M.U. bulletin	2 915	3 399
World Directory of Mathematicians (note)	20 516	139
	-----	-----
	23 431	3 538
	=====	=====

The cost of \$ 20 516 represents the amount required to produce 2000 copies of the World Directory of Mathematicians.