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Mathematical Union**



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IMU

B U L L E T I N

OF THE

INTERNATIONAL MATHEMATICAL UNION

No.15

JULY 1979

SECRETARIAT

COLLEGE DE FRANCE

11, Place Marcelin Berthelot
75231 PARIS CEDEX 05 - FRANCE

INTERNATIONAL MATHEMATICAL UNION

EXECUTIVE COMMITTEE

(January 1, 1979 - December 31, 1982)

President : Professor Lennart Carleson

Vice-Presidents : Professor M. Nagata
Professor V. Prokhorov

Secretary : Professor J.L. Lions

Members : Professor E. Bombieri
Professor J.W.S. Cassels
Professor M. Kneser
Professor O. Lehto
Professor C. Ołech

Past President : Professor Deane Montgomery

REPORT OF THE 40th MEETING OF THE EXECUTIVE COMMITTEE OF I.M.U.

The Executive Committee of the Union met for the first time on April 4 and 5, 1979, at the Collège de France, Paris.

The following members of the E.C. were present at the meeting : Professor L. Carleson (President), Professor D. Montgomery (Past President), Professor M. Nagata (Vice-President), Professor J.L.Lions (secretary), Professor E. Bombieri, Professor J.W.S. Cassels, Professor M. Kneser, Professor O. Lehto, Professor C. Olech (members). Professor J.V. Prokhorov (Vice-President) was not able to come due to an ill state of health.

Professor L. Carleson, newly elected President of the Union, greeted each member, especially Professor D. Montgomery who is now Past President and hoped this Committee will fulfill its work with success.

The main information about this meeting will be found along the following lines of this Bulletin.

SCIENTIFIC ACTIVITIES OF THE UNION

1979 : Colloquium on Automorphic Forms, Representation Theory and Arithmetic, Bombay, January 8-15, 1979.

On account of the early period of the year in which it was planned, decision had already been made by the past E.C.

The IMU sponsorship had been given, nominating Professors Kneser and Deligne as IMU representatives and a financial help for travel expenses to foreign participants amounting to US \$ 5,000 had been voted. The Colloquium was held at the Tata Institute in Bombay and co-sponsored by IMU and T.I.F.R. Twelve invited speakers delivered lectures of fifty-minutes duration, followed by discussions.

The following addresses were given by the invited speakers :

- Professor W. Casselman : Whittaker models for representations of $GL_n(\mathbb{R})$ and $GL_n(\mathbb{C})$.
- Professor P. Deligne : Can any l -adic representation be motivated in the function field case ?
- Professor S. Gelbart : Automorphic forms on the metaplectic group.
- Professor G. Harder : Period integrals of cohomology classes represented by Eisenstein series.
- Professor K. Iwasawa : On p -adic representations associated with \mathbb{Z}_p -extensions.
- Professor H. Jacquet : Dirichlet series for $GL(n)$.
- Professor N.M. Katz : Dieudonné modules, Crystalline Cohomology and Jacobi sums.
- Professor I.I. Piatetskii-Shapiro : Distinguished representations and Shimura's integral
- Professor S. Raghavan : Estimation of coefficients of modular forms and generalized modular relations.
- Professor T. Shintani : On automorphic forms on unitary groups of order 3.
- Professor H.M. Stark : Values of derivatives of L -series at $s = 0$.
- Professor D. Zagier : Eisenstein series, the Delberg trace formula and the Riemann zeta function.

International Conference on Topology and its Applications
Moscow, dedicated to Professor Alexandroff.

The Executive Committee decided to give the IMU sponsorship ; Professor Bing was nominated as IMU representative and a financial help for travel expenses to foreign participants amounting to US \$ 2,500 was voted.

A.M.P. Conference (Association de Physique Mathematique)
Lausanne, August 20-25, 1979.

A financial support for travel expenses to foreign participants amounting to US. \$ 2,500 was granted. Professors I.M. Singer and D. Ruelle are proposed as IMU representatives.

I.S.I.M.M. Symposium (International Society for the Interaction of Mechanics and Mathematics, Edinburgh, September 9-13, 1979

Fifteen invited speakers have already accepted to lecture at this symposium and about 150 participants are expected. A financial support of US \$ 1,500 to cover travel expenses of foreign participants was granted. Professors K.Kirchgässner and J. Serrin are asked to be IMU representatives.

The Executive Committee of IMU also resolved to support the following Symposia for 1980 :

1980 Symposium on "Algorithmic and Logic" , E.T.H., Zürich,
February 5-11, 1980

Conference on "Functions, Series, Operators", Budapest,
April 4 and 5, 1980.

This Conference is organized by the Bolyai János Mathematical Society under the auspices of the Hungarian Academy of Sciences. A wide representation from abroad is expected together with an important participation of Hungarian mathematicians. The E.C. decided to co-sponsor this meeting and granted a financial contribution of US \$ 2,500.

As a general matter of fact, the Executive Committee of IMU decided to recall to all the organizers of meetings the following Resolutions:

- a) Resolution from the Executive Committee, as printed in Bulletin 14, Oct. 1978, p. 5, report of the 38th meeting of the E.C. in Paris, April 17-18, 1978 :
- "It is agreed that when the Executive Committee agrees to sponsor the scientific activities of the Union such as symposia, conferences, etc., the Secretary should remind the Organizers that the IMU is a non-political organization and should emphasize that the name of IMU should not be used, directly or indirectly, in any petition or other political activity".
- b) Resolution 10 of the Eighth General Assembly of IMU in Otaniemi (Finland), August 11-12, 1978.
- "The 8th General Assembly of the IMU endorses the Resolution of the 15th General Assembly of ICSU on free circulation of scientists, and requests the Executive Committee, elected at this Assembly, to do their best to implement the spirit and the letter of this resolution, paying special attention to the attendance of invited speakers and other participants at the ICM and other scientific gatherings sponsored by IMU.
- "The President-elect of IMU is respectfully requested to report to the next General Assembly on this matter".
- c) To recall to the National Committees involved in the organization of such international meetings the recommendations of the 15th and the 16th General Assemblies of ICSU on the Free Circulation of scientists.

IMU LECTURERS

Professor Furstenberg, from the University of Jerusalem, will visit I.H.E.S. (France) during the first semester of 1980.

The Executive Committee nominated, under a proposal from I.H.E.S., Professor Furstenberg as IMU lecturer for 1980.

SALEM PRIZE

The SALEM PRIZE for 1979 was awarded to Dr. Gilles Pister of the Centre de Mathematiques de l'Ecole Polytechnique, for his work on geometry of Banach spaces and on lacunary and random Fourier series. The prize was established in 1968, and given every year to a young mathematician who is judged to have done an outstanding work in the field of interest of Salem, primarily on Fourier series and related topics. The recipient was Dr. Nicholas Varopoulos in 1968, Dr. Richard Hunt in 1969, Dr. Yves Meyer in 1970, Dr. Charles Fefferman in 1971, Dr. Thomas Körner in 1972, Dr. E.M. Nikisin in 1973, Dr. Hugh Montgomery in 1974, Dr. William Neckner in 1975, Dr. M.R. Herman in 1976, Dr. S.B. Bockarev in 1977 and Dr. Björn E. Dahlberg in 1978. The jury consisted of Professor A. Zygmund, Professor L. Carleson, Professor J.P. Kahane, Professor Ch. Pisot and Professor E.M. Stein.

F I N A N C I A L R E P O R T

for the period January 1st, 1978 to December 31st, 1978

I N C O M E :

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

- A) - Dues from the member nations,
- B) - ISCU/UNESCO contribution,
- C) - World Directory of Mathematicians,
- D) - Grants,
- E) - Interests on Bank Accounts,
- F) - Exchange Difference.

A) - During the financial year 1978, dues were paid at the :

i) CHASE MANHATTAN BANK, by :

Argentina	I	1978	
Brazil	I	1974,75,76,77,78	
Israël	II	1978	
U.S.A.	V	1978	
		Total : US \$. 5,407.--

ii) SWISS CREDIT BANK, by :

Australia	III	1978	
Austria	II	1978	
Belgium	III	1977	
Brazil	I II	1978	
Bulgaria	II	1978	
Canada	III	1978	

SWISS CREDIT BANK (continued) :

China-Taiwan	I	1978	
Czechoslovakia	III	1978	
Denmark	II	1978	
Arab Rep.of Egypt	I	1978	
Finland	II	1978	
Fed. Rep.of Germany	V	1978	
Dem. Rep.of Germany	III	1978	
Greece	I	1978	
Hungary	III	1978	
Iceland	I	1978	
India	III	1977 1978	
Iran	II	1977 1978	
Ireland	II	1978	
Israël	II	1978	
Japan	V	1978	
Dem. People's Rep. of Korea	I	1978	
Netherlands	III	1978	
New Zealand	I	1978	
Nigeria	I	1977	
Norway	I	1978	
Poland	IV	1979	
Portugal	I	1977	
Rumania	II	1977	
Singapore	I	1978	
South Africa	II	1978	
Spain	II	1978	
Sweden	III	1978	
Switzerland	III	1978	
United Kingdom	V	1978	
U.S.S.R.	V	1978	
Yugoslavia	II	1978	
		Total :	US \$ 38,806.

iii) SOCIETE GENERALE, by :

Cameroon	I	1978		
Cuba	I	1978		
France	V	1978		
		Total :	US \$	3,362.--
TOTAL INCOME FROM MEMBERSHIP DUES :			US \$	47,575.--
				=====

The following subscriptions were paid in 1978, but cashed in 1979 :

Cameroon (I), India (III), Italy (IV).

Exchange rates at the date of bank statements using UNESCO's standard rates of exchange.

Subscriptions were due from the following countries at the end of 1978 :

1978 Belgium (III), Canada (III), Mexico (I), Nigeria (I), Portugal (I),

The Philippines (I), Rumania (II), Turkey (I).

1975-1977 : Mexico (I).

B) - ICSU/UNESCO Contribution 1978 :

US \$: 12,000 in two instalments	US \$	12,000
		=====

C) - WORLD DIRECTORY OF MATHEMATICIANS :

Sales Fifth Edition (1974)	US \$.	64
		=====

D). GRANTS :

UNESCO special contract for subvention to travel grants to young mathematicians to attend ICM '78 Helsinki

US \$. 2,000	(see ICM '78)
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COSTED contribution (idem)

US \$ 2,000	(see ICM '78)
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E) - INTERESTS ON BANK ACCOUNTS :

a) Kansallis-Osakke-Pankii (K.O.P.)
account opened for General Assembly
and Travel Grants to young mathematicians

US \$ 125

b) Swiss Credit Bank US \$ 761

c) Svenska Handelsbanka US \$ 321

less bank charges US \$ 394

US \$ 813
=====

F) - EXCHANGE DIFFERENCE :

US \$ 20,312
=====

I N C O M E

	US \$
A). Membership dues	47,575--
B). UNESCO/ICSU Subvention	12,000--
C). Sales from W.D.M.	64--
D). Grants : UNESCO contract for young mathematicians \$ 2,000 I.S.L. (U.K.)(received in 1977): £ 200 = \$ 350 C.O.S.T.E.D. subvention to young mathematicians (to be paid) \$ 2,000 (this figure is shown as follows : total of IMU grants : \$ 23,645.-- less grants received: 2,350--)	
E). Interests on Bank accounts	
a) K.O.P. (Helsinki) 125	
b) Swiss Credit Bank 761	
c) Svenska Handelsbanka 321	
Less bank charges 394	813
F). Exchange difference	20,312
TOTAL OF INCOME :	80,764 =====

S U M M A R Y :

TOTAL OF INCOME	US \$ 80,764
TOTAL OF EXPENDITURE	
under Schedule A	US \$ 32,070
under Schedule B	US \$ 34,579
EXCESS OF INCOME OVER EXPENDITURE	US \$ 14,115 =====

EXPENDITURE

<u>SCHEDULE A</u>	<u>Authorized</u>		<u>Actual</u>
	Sw. Frs	US \$	US \$
1. a) Secretarial help (IMU Office)	9,000	5,202-	6,251-
b) Secretarial help (President)	1,000	578	-
c) I.C.M.I.	900	520	300
d) C.T.S.	600	347	300
2. Office expenses	4,000	2,312	69
3. Travel expenses E.C. meetings	14,000	8,092	14,400
4. President's & Secretary's exp.	1,500	867	1,480
5. Contribution to ICSU (2 $\frac{1}{2}$ % an.dues)	2,300	1,329	1,008
6. Publication & dissemination of the Bulletin	2,000	1,156	3,676
7. Audit fee	450	260	1,340
8. General Assembly	2,000	1,156	3,190
9. World Directory of Mathematicians	10,000	5,780	56
10. Contingencies	2,500	1,445	---
	50,250 =====	29,044 =====	32,070 =====

<u>SCHEDULE B</u>	Sw. Frs	US \$	US \$
1. Scientific Activities : Symposia & Conferences IMU Lectures Exchange Commission, ICMI.	48,000	27,746	1,500
2. IMU Fellowship Fund	6,000	3,468	1,963
3. Consultative Committee	3,000	1,734	--
4. Subvention to { ICM '78 Travel Grants Committee	18,750	10,838	9,470
	76,750 =====	43,786 =====	34,579 =====
TOTAL OF EXPENDITURE :			66,649 =====

FINANCIAL STATEMENT FOR THE PERIOD JANUARY 1, 1978 TO DECEMBER 31, 1978

	US. \$	Sw.Frs C. a/c & P.K.	Frs.Frs	Sw.Frs Sté Gle	B.Frs	S.Krs	S.Krs P.K.	Frs.Frs Cash	Sw. Frs I.C.M.
1) Income									
a) Bank Balance in current a/c on 1/1/1978	11,843	78.198	24.493	1.200	13.796	752		122	
b) Bank Balance in private a/c on 1/1/1978		<u>76.811</u>					<u>21.063</u>		
Add : Receipts during 1978									
1. Membership dues	5,407	72.552	15.463						
2. ICSU/UNESCO	12,000								
3. Sales of W.D.M.		46				282			
4. Grants	2,000								
5. Exchange diff. interests/bank charges		<u>1.316</u>			18		<u>1.420</u>		194
6. Inter-bank transfers		16.683	65.818					44.650	60.000
	31,250	<u>167.479</u> <u>78.127</u>	105.774	1.200	13.814	1.034	<u>22.483</u>	44.772	60.194
2) Expenditure									
Schedule A									
1. a) Secr.help								28.100	
b) d° President	--	--						--	
c) ICMI									
d) CTS	300								
2. Office expenses								313	
3. Travel exp. EC	2,769	1.885	6.111					15.090	9.466
4. Pt.'s & Secr. expenses			6.430					225	
5. Contrib: ICSU	1,008								
6. Publ. bulletins	937		6.833					1.000	
7. Audit fee	1,340								
8. General Assembly								44	5.533
9. W.D.M.						248			
10. Bank charges	36	127	14		500				
11. Inter-bank transf.		85.500	44.650	1.200					16.683
Schedule B									
1. Scientific Activit.	1,500	739	32520(1979)						
2. Fellowship Fund	600		6.202						
3. Travel Grants Y.M.	7,310		2.820						28.512
4. Subv.ICM'78(left 77)		18.750							
	15,800	107.001	105.580	1.200	500	248	--	44.772	60.194
BALANCE Priv.a/c	15,450	60.478	194	0	13.314	786	<u>22.483</u>	0	0
BALANCE P.a/c		<u>77.655</u>					closed 1.13.79		

BALANCE AS PER DECEMBER 31, 1978

(Recapitulation 1975 - 1978 period) (in US\$)

	1975	1976	1977	1978
<u>ASSETS</u>				
Banks				
Chase Manhattan Bank	11,804	4,335	11,843	15,449
Schweizerische Kreditanstalt				
Current Account in S.F.	9,535	23,991	36,036	34,958
Private account " "	27,792	30,883	35,397	44,887
Banque Degroof in B.Frs	365	372	394	444
Société Générale				
Current account in F.Frs	362	1,934	5,050	44
Financial account S.Frs	--	246	553	--
Svenska Handelsbanken				
Current account in Krs.S.	240	123	157	178
Private account " "	2,552	4,186	4,407	5,087
Petty cash in F.Frs	--	--	25	--
Prepayments		5,000		8,457
	52,650	71,070	93,862	109,504
Less LIABILITIES				
Sundry creditors & accruals	950	1,771	1,827	3,353
EXCESS OF ASSETS OVER LIABILITIES :	51,700 =====	69,299 =====	92,035 =====	106,151 =====
BALANCE at January 1st.	23,075	51,700	69,299	92,035
Excess of income over expenditure :	28,625	17,599	22,736	14,116
ACCUMULATED BALANCE at December 31	51,700 -----	69,299 -----	92,035 -----	106,151 -----

SPECIAL APPEAL FUND

We recall Resolution 4 of the General Assembly of IMU in Otaniemi :
"The General Assembly does not propose an increase in IMU dues, but proposes a
"special appeal for contribution to finance development activities, beginning
"with the allocation of not less than US Dollars 20,000 for the quadrennium
"1979-1982"

The E.C. resolved to send letters to each National Adhering Organization and to each Secretary of National Committees.
These letters have already been sent. Due to the exceptional importance of this appeal, we reproduce below the texts of these two letters :

"TO THE NATIONAL ADHERING ORGANIZATIONS OF IMU :

"Mathematics has an essential part to play in the progress of developing countries. At Otaniemi, in August 1978, the General Assembly of the Union decided that its activities in support of Mathematics for development should be greatly increased and extended. It entrusted the organization to a new Commission on Development and Exchange (replacing an existing Commission on Exchange), whose membership is given below.

"It is hoped and expected that UNESCO and ICSU will give support for some specific projects but if it is to fulfill its mission, the Commission will require substantial funds at its own disposal. The aid which the Union can provide from its limited resources is necessarily inadequate. The Otaniemi General Assembly decided that it was inappropriate to raise Union dues but agreed instead to set up a special fund to which National Adhering Organizations and others would be asked to contribute.

"I am writing now, on behalf of the Union, to ask you to give generously so as to ensure the success of this valuable initiative".

J.L. Lions
Secretary of I.M.U.

"TO SECRETARIES OF NATIONAL COMMITTEES FOR MATHEMATICS AND MATHEMATICAL SOCIETIES :

"Mathematics has an essential part to play in the progress of developing countries.
"At Otaniemi, in August 1978, the General Assembly of the International Mathema-
"tical Union decided that its activities in support of Mathematics for Development
"should be greatly increased and extended. It entrusted the organization to a new
"Commission on Development and Exchange (replacing an existing Commission on Ex-
"change) whose membership is given below.

"It is hoped that UNESCO and ICSU will give support for some specific projects but
"if it is to fulfill its mission, the Commission will require substantial funds
"at its disposal. The aid which the Union can provide from its own limited resour-
"ces is necessarily inadequate. It was therefore decided to invite contributions
"to a special Development Fund.

"The Executive Committee is sure that there must be many mathematicians who would
"wish to contribute individually and has asked me to request you to bring the
"Fund to the attention of your members. It would save bank charges and other adm-
"inistrative expenditure if your Society would be willing to collect the contribut-
"ions of its members and send them in a single cheque (payable to one of the IMU
"accounts, given below, with the mention : "Special Development Fund). One possib-
"ility which you might find convenient is that the next time your members pay
"their dues, you could ask those who wish to add a donation to the Development
"Fund".

"We shall be very grateful for any help you are able to give".

J.L. Lions
Secretary of I.M.U.

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

The C.D.E has been established by the General Assembly of the Union in August 1978 and came into existence on January 1st, 1979, replacing the existing IMU "Exchange Commission".

The terms of Reference of this Commission were approved under Resolution 6 of the General Assembly.

Professor H. Hogbe-N'lend, from Cameroon, President of the African Mathematical Union, was elected chairman of this Commission.

The membership is given below.

The C.D.E. met for the first time on November 4, 1978, on the occasion of the International Colloquium held by UNESCO in Bordeaux on "Mathematics and Development". This meeting had been jointly summoned by Professor A.J. Coleman, past chairman of the Exchange Commission, and Professor H. Hogbe-N'lend chairman of the new C.D.E.. At this meeting, Professors Figa'-Talamanca and Nebres were coopted new members of this Commission.

MEMBERSHIP OF THE COMMISSION ON DEVELOPMENT AND EXCHANGE :

Chairman : Professor Hogbe-N'lend (Cameroon)
Elected members: Professor M.F. Atiyah (United Kingdom)
Professor A.J. Coleman (Canada)
Professor D. Guedes de Figueiredo (Brazil)
Professor K. Ito (Japan)
Professor G.D. Mostow (U.S.A.)
Professor M.S. Narasimhan (India)
Professor B. Skökefalvi-Nagy (Hungary)
Professor A.D. Pogorelov (U.S.S.R.)
Members coopted : Professor A. Figa'-Talamanca (Italy)
Professor B. Nebres (Philippines)
Member ex-officio : Prof. J.L. Lions (secretary of IMU).

At the meeting of the E.C. in April 1979, the following was decided :

The E.C. approves the UNESCO contract with ICSU-IMU no. 250.265 of \$ 3,000 to be used as follows :

- Symposium on "Operational Research and Graph Theory"
Singapore, May 1979 \$ 1,500
- Symposium on "Functional Analysis and Applications"
Kumasi (Ghana), August 1979 \$ 1,500

It is agreed that IMU gives \$ 2,000 in 1979 and \$ 2,000 in 1980 for helping to the publication of Afrika Mathematica and of the SEAMS Bulletin.

But this is done with the understanding that IMU does not want to be involved with publications on a permanent basis, and the C.D.E. has been informed that no further subvention to these Journals could be expected from IMU.

For the year 1979, a secretarial help of \$ 1,000 has been voted.

I.C.M.I. (INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION)

The new Executive Committee was elected as follows, after the President had nominated Professor Hassler Whitney President for the period 1979-1982 :

President :	Professor H. Whitney	(U.S.A.)
Vice-Presidents :	Professor B. Christiansen	(Denmark)
" "	Professor U.d'Ambrosio	(Brazil)
Secretary :	Professor P. Hilton	(U.S.A.)
Past President :	Professor S. Iyanaga	(Japan)
Members :	Professor S. Erlwanger	(Botswana)
"	Professor B.H. Neumann	(Australia)
"	Professor Z. Semadeni	(Poland)
Member ex-officio	Professor J.L. Lions	, secretary of IMU.

Professor B. Christiansen has agreed to be IMU representative at the C.T.S. (Committee on the Teaching of Science).

The main scientific activity for the forthcoming period is the IVth International Congress on Mathematical Education (ICME IV) which is planned to be held at Berkeley, California, in August 1980.

NEXT INTERNATIONAL CONGRESS OF MATHEMATICIANS

Professor C. Olech has given some information on the preliminary contacts that are taken for the preparation of the next ICM in Warsaw.

The Polish Academy of Sciences gave in writing an assurance that " it has always complied with ICSU Resolutions concerning free access to bona fide scientists to international conferences organized in Poland under the auspices of the ICSU Unions and Committees. There have been no complaints so far in this respect from the side of ICSU Committee on Free Circulation of scientists.

" The same practice will be pursued in the future and it will do all its best to secure free access to the International Congress of Mathematicians planned in Warsaw in 1982 for all bona fide scientists regardless of their race, nationality, religion, political philosophy, ethnic origin and citizenship".

I.C.S.U. AND UNESCO

Professor M. Kneser has accepted to be the IMU representative at the Eleventh meeting of the General Committee of ICSU to be held in Brussels on July 4, 5, 1979.

UNESCO REGIONAL CENTERS

The South-East Asian Regional Center for Mathematics starts its activities in 1979.

The E.C. recommended, by postal ballot, the nominations of Professors Chern, Kawada and Lions in the Advisory Committee.

The I.C.P.A.M. (International Center for Pure and Applied Mathematics) also begun its activities in Nice in 1979.

By postal ballot, Professors Guedes de Figueiredo from Brazil and Narasimhan from India, were elected members of the Advisory Committee of this I.C.P.A.M., as representatives of the IMU Commission on Development and Exchange.

WORLD DIRECTORY OF MATHEMATICIANS

After the closing of the bank accounts in the Svenska Handelsbanken in Stockholm, and the decision of the General Assembly to authorize Professor Nagata to open the necessary accounts for the publication of the Sixth Edition, two accounts have been opened under W.D.M./IMU title, the first one in Japan, in Yen currency, the second one in US Dollars, near the Swiss Credit Bank. This second account is intended to facilitate payment outside Japan from foreign subscribers whilst the Japanese account deals with all matters connected with publication and dissemination of the WDM, as well as Japanese subscriptions. These possibilities were publicized in the IMU Bulletin, Nb. 14, October 1978 and reproduced in the American Mathematical Society Bulletin at the end of 1978.

As there has been no publication in the interval 1975-1978, the annual budgeted reserve of Swiss Frs. 10,000 was set apart. The E.C. unanimously decided to authorize the transfer of S.Frs. 10,000 x 4 = S. Frs. 40,000- from the Swiss Credit Bank, (S.frs account) to the Japanese account, to meet the publication costs. Adequate action has been taken.

Fifth Edition (1974) : Summary of income and expenditure in US \$

<u>YEAR</u>		DEBIT	CREDIT	DEFICIT	BENEFIT
1974	Income Expenditure	18,901	4,720	14,181	
1975	Balance 1.1.75 Income Expenditure Interests (P.K.)	14,181 578	6,002 46	8,711	
1976	Balance 1.1.76 Income Expenditure Interests (P.K.)	8,711 168	1,293 208	7,378	
1977	Balance 1.1.77 Income Expenditure Interests (P.K.)	7,378 289	756 311	6,600	
1978	Balance 1.1. 78 Income Expenditure Interests (P.K.)	6,600 56	64 321	<u>6,271</u>	

WORLD DIRECTORY OF MATHEMATICIANS

Sixth Edition (1979)

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
No. 0862/656205-82 in US \$
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
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ANNOUNCEMENTS

The Coxeter Symposium has been held in Toronto, Canada, from May 21 to 28, 1979. The mathematical work of H.S.M. Coxeter has long had great influence within the field of geometry. In recent years, its influence is felt more widely, because of new and diverse applications of packing problems and other geometric inequalities, because of the increased importance of polytopes, and because of rapid development in the study of groups in terms of generators and relations. This Symposium is intended to allow those engaged in research in such areas to take stock of their progress jointly and to assess future prospects.

Some of the invited speakers were : John Horton Conway, H.S.M. Coxeter, L. Fejes Tóth, Branko Grünbaum, William M. Kantor, P. McMullen, C.A. Rogers, J.J. Seidel, G.C. Shephard, W.T. Tutte. There has also been sessions for contributed papers.
