### IMU

## **Bulletin of the**

## **International Mathematical Union**

No.76

December 2024

### **Secretariat:**

International Mathematical Union Secretariat Hausvogteiplatz 11a D-10117 Berlin, Germany

https://www.mathunion.org/

#### **List of Abbreviations**

AO Adhering Organization

**CDC** Commission for Developing Countries

**CEIC** Committee on Electronic Information and Communication

**CoD** Ad hoc Committee on Diversity

**CoP** Ad hoc Committee on Permissions

**CWM** Committee for Women in Mathematics

**EC** Executive Committee

**FIMU** Friends of the International Mathematical Union

**GA** General Assembly

ICHM International Commission on the History of Mathematics

ICM International Congress of Mathematicians

ICMI International Commission on Mathematical Instruction

**IDM** International Day of Mathematics

IMU International Mathematical Union

ISC International Science Council

PC Program Committee

**SC** Structure Committee

Dear Members of the International Mathematical Union,

In 2024—the second year of the 2023–2026 term—the IMU coordinated several key initiatives and events, including important preparatory work for the IMU General Assembly and ICM in 2026.

The annual meeting of the IMU Executive Committee was held on March 23 and 24, 2024 at the Sydney Mathematical Research Institute (SMRI) in Sydney, Australia. During the meeting, the selection of members for the remaining prize committees of ICM 2026 in Philadelphia was discussed and decided. The selected individuals were contacted and invited to participate by IMU President Hiraku Nakajima, so that a few weeks after the meeting all committees were able to begin their work.

At the meeting, the term of office of IMU Treasurer Dietmar Hömberg was also extended until August 2026.

The first visit of the IMU Office Committee (IMU OC) for the period 2023–2026 took place in February 2024 at the IMU Secretariat. The IMU OC monitors and evaluates the performance of the IMU Secretariat and its support of the IMU. The visit lasted two days. In April 2024, the IMU OC reported its findings. The report was very positive and praised the Secretariat's staff for their positive, purposeful, and dedicated work. The IMU OC noted that all recommendations from the previous visit in 2021 had been implemented. The 2024 report contained additional recommendations, which have also since been implemented. The IMU OC again acknowledged the valuable support the IMU receives from the Weierstrass Institute (WIAS), and the generous funding provided by the Federal Republic of Germany and the State of Berlin.

The next visit of the IMU OC will take place in early 2026, prior to the IMU General Assembly in New York City in July of that year.

The selection of the 2026 Nominating Committee was completed in September 2024. The committee prepares slates for the various IMU offices up for election in 2026. In November 2024, the first call was issued to IMU members to submit nominations for the positions of IMU President and IMU Secretary General. The announcement of the candidates selected for these two positions takes place in spring 2025. Further calls for other offices follow later in the year. In addition to proposals from IMU Members, the Nominating Committee may proactively seek additional candidates for the slates, which will then be voted on by Delegates at the IMU General Assembly in 2026.

On July 5 and 6, 2024, the International Commission on Mathematical Instruction (ICMI) Executive Committee met in Sydney, Australia, to prepare for the ICMI General Assembly on July 7. During this General Assembly, among other matters, the new ICMI Executive Committee for the term 2025–2028 was elected. Following the Assembly, the International Congress on Mathematical Education (ICME-15), attended by around 2,500 participants, was held in Sydney. The next ICMI General Assembly and Congress (ICME-16) will take place in 2028 in Prague, Czech Republic.

As part of the *ICMI Studies* series, the proceedings of ICMI Study 25 "Teachers of Mathematics Working and Learning in Collaborative Groups" were published and made available on the ICMI website as usual.

In the various ongoing projects of the Commission for Developing Countries (CDC), a great deal of organizational, financial, and professional support was provided. As part of the "Conference Support Program", 40 conferences in developing countries received financial support. Through the "Volunteer Lecturer Program", 14 lecture series in developing countries (including Algeria, Iran, Madagascar, Namibia, and Pakistan) were approved for funding. While under the "Abel Visiting Scholar Program," two scholarships were awarded.

At the beginning of 2024, the IMU and the CDC secured an award from the "Targeted Grants to Institutes" scheme at the Simons Foundation. The award funds the new "IMU–Simons Research Fellowship Program for Developing Countries", which will run for three years from April 2024 to April 2027. The program supports research stays of up to three months for mathematicians from developing countries. As part of this process, the IMU was certified as equivalent to a US public charity. Between April and December 2024, 30 fellowships were awarded under the program.

The transition to the IMU's new application portal grants.mathunion.org, begun in 2023, was completed during the year. By June 2024, all funding programs had been successfully migrated to the portal. The new portal streamlines the application and selection processes of IMU programs. In addition, the IMU Secretariat has now taken over administrative management of the two fellowship programs, "IMU Breakout Graduate Fellowship" and "Graduate Research Assistantships in Developing Countries," which had previously been outsourced to external partners. The handover process with the external partners began in 2024 and will continue through 2025.

The annual call for proposals by the Committee for Women in Mathematics (CWM)—which provides financial support for projects worldwide—resulted in 39 applications. Of these, 10 projects were selected and partially or fully funded by the CWM.

In 2024, there were no changes in the number of regular member countries or their groups. Meanwhile, after eight years, the associate membership of Paraguay ended following the maximum period of two terms. The next stage would be an application for regular membership.

With best wishes

Christoph Sorger Secretary General of the International Mathematical Union

### **Contents**

1.	IMU Leadership and Membership Information
1.1	Executive Committee 2023-2026
1.2	IMU Leadership 2023-20267
1.3	Members of the Union
2.	Financial Information1
2.1	Approved IMU Membership Dues1
2.2	.Approved IMU Budget12
2.3	Independent Auditor's Report13
2.4	IMU Special Development Fund44
2.5	.Third-Party Donations (monetary contributions)44
2.6	IMU Bank Accounts44
3.	Commissions and Committees
3.1	International Commission on Mathematical Instruction (ICMI)
3.2	.Commission for Developing Countries (CDC)
3.3	International Commission on the History of Mathematics (ICHM)
3.4	.Committee on Electronic Information and Communication (CEIC)87
3.5	.Committee for Women in Mathematics (CWM)
4.	Circular Letters of the IMU Secretary General to the Adhering Organizations 97
5.	The IMU Secretariat
6	Impressum 117

### 1. IMU Leadership and Membership Information

#### 1.1. Executive Committee 2023-2026

#### **International Mathematical Union**

#### **Executive Committee**

January 1, 2023 - December 31, 2026

President: Hiraku Nakajima (Japan)

Vice-Presidents: Ulrike Tillmann (UK)

Tatiana Toro (USA/Colombia)

**Secretary General:** Christoph Sorger (France)

Members-at-Large: Mouhamed Moustapha Fall (Senegal)

Nalini Joshi (Australia) JongHae Keum (Republic of

Paolo Piccione Korea)
Günter M. Ziegler (Brazil)
Tamar Ziegler (Germany)

(Israel)

**Ex-officio Member** Carlos E. Kenig (USA)

(Past President)



#### **Meetings of the Executive Committee in 2024:**

97th EC Meeting, Sydney, Australia, March 23-24, 2024

#### 1.2. IMU Leadership 2023-2026

#### IMU Executive Committee (EC) 2023 - 2026

Hiraku Nakajima IMU President Japan
Christoph Sorger IMU Secretary General France

Ulrike Tillmann IMU Vice-President UK

Tatiana Toro IMU Vice-President USA/Colombia

M. Moustapha Fall IMU EC Member-at-Large Senegal Nalini Joshi IMU EC Member-at-Large Australia

JongHae Keum IMU EC Member-at-Large Republic of Korea

Paolo PiccioneIMU EC Member-at-LargeBrazilGünter M. ZieglerIMU EC Member-at-LargeGermanyTamar ZieglerIMU EC Member-at-LargeIsrael

Carlos E. Kenig IMU EC Ex-officio Member (Past President) USA

#### Commission for Developing Countries (CDC) 2023 – 2026

Andrea Solotar CDC President Argentina

Ludovic Rifford CDC Secretary Policy France

Jose Maria Balmaceda CDC Secretary Grants Philippines

Norbert Hounkonnou CDC, African Member Benin
Le Tuan Hoa CDC, Asian Member Vietnam
Mariel Saez CDC, Latin American Member Chile

Dayue Chen CDC Member appointed by IMU EC China

K. N. Raghavan CDC Member appointed by IMU EC India

Anjum Halai CDC Member appointed by ICMI EC Pakistan

Hiraku Nakajima CDC Ex-officio Member (IMU President) Japan

#### International Commission on the History of Mathematics (ICHM) 2023 – 2026

Guillermo P. Curbera ICHM Spain Isobel Falconer ICHM UK

### International Commission on Mathematical Instruction (ICMI) 2021 - 2024

Frederick K. S. Leung	ICMI President	SAR, China
Jean-Luc Dorier	ICMI Secretary-General	Switzerland
Merrilyn Goos Anjum Halai	ICMI Vice President ICMI Vice President	Australia Pakistan
Marta Civil Patricio Felmer Mercy Kazima Núria Planas Susanne Prediger	ICMI EC Member-at-Large	USA Chile Malawi Spain Germany
Jill Adler Hiraku Nakajima Christoph Sorger	ICMI EC Ex-officio Member (ICMI President 2017-2020) ICMI EC Ex-officio Member (IMU President) ICMI EC Ex-officio Member (IMU Secretary General)	South Africa Japan France

### Committee on Electronic Information and Communication (CEIC) 2019 – 2026

(CEIC terms of membership are staggered.)

Ilka Agricola	CEIC Chair	2023 - 2026	Germany
Jean-Pierre Bourguignon	CEIC Member	2021 – 2024	France
Kevin Buzzard	CEIC Member	2021 – 2024	UK
Marie Farge	CEIC Member	2019 – 2026	France
Rajeeva Karandikar	CEIC Member	2019 – 2026	India
Takashi Kumagai	CEIC Member	2023 - 2026	Japan
Ingrid Rewitzky	CEIC Member	2021 – 2024	South Africa
Peter Taylor	CEIC Member	2023 - 2026	Australia

#### Committee for Women in Mathematics (CWM) 2023 – 2026

Carolina Araujo	CWM Chair	Brazil
Hélène Barcelo	CWM Vice-Chair	USA
U.K. Anandavardhanan	CWM Member-at-Large	India
Tony Ezome	CWM Member-at-Large	Gabon
Catherine Greenhill	CWM Member-at-Large	Australia
Motoko Kotani	CWM Member-at-Large	Japan
Matilde Lalín	CWM Member-at-Large	Canada
Selma Negzaoui	CWM Member-at-Large	Tunisia
Ekin Ozman	CWM Member-at-Large	Turkey
Carola-Bibiane Schönlieb	CWM Member-at-Large	UK

### Persons representing IMU in various organizations

Body	Representative/	Term
	liaison	
Committee on Data of the ISC (CODATA)	Ilka Agricola	2023 – 2026
Consultative Committee for Units (CCU)	Helge Holden	2023 – 2026
COSPAR, International Scientific Union Representative	Nalini Joshi	2023 – 2026
Gruber Foundation, Cosmology Advisory Board	Mihalis Dafermos	2024 – 2026
ISC	Nalini Joshi	2023 – 2026
UNESCO	M. Moustapha Fall	2023 – 2026
Ramanujan Prize	Tatiana Toro	2023 – 2026
ICMI (IMU EC liaison)	Paolo Piccione	2023 – 2026
CDC (IMU EC liaison)	Tamar Ziegler	2023 – 2026
ICHM (IMU EC liaison)	Tatiana Toro	2023 – 2026
CEIC (IMU EC liaison)	Ulrike Tillmann	2023 – 2026
CWM (IMU EC liaison)	Hiraku Nakajima	2023 – 2026
IMU News Editor	Yoshiharu Kohayakawa	2021 – 2024
IMU News EC correspondent	JongHae Keum	2023 – 2026
IDM (IMU EC liaison)	Günter M. Ziegler	2023 – 2026
Committee on Diversity (IMU EC liaison)	Tatiana Toro	2023 – 2026
Curator of the IMU Archive	June Barrow-Green	2021 – 2024

#### 1.3. Members of the Union

The following countries were Members of IMU through December 2024:

Algeria	Hungary	Philippines
Argentina	Iceland	Poland
Armenia	India	Portugal
Australia	Indonesia	Romania
Austria	Iran	Russia
Bangladesh*	Ireland	Saudi Arabia
Belarus	Israel	Senegal
Belgium	Italy	Serbia
Bosnia & Herzegovina	Ivory Coast	Singapore
Brazil	Japan	Slovakia
Bulgaria	Kazakhstan	Slovenia
Cameroon	Kenya	South Africa
Canada	Korea, Republic of	Spain
Chile	Kyrgyzstan	Sweden
China	Latvia	Switzerland
Colombia	Lithuania	Thailand
Croatia	Luxembourg	Tunisia
Cuba	Malaysia	Turkey
Cyprus	Mexico	Ukraine
Czech Republic	Mongolia	United Kingdom
Denmark	Montenegro	United States
Ecuador	Morocco	Uruguay
Egypt	Netherlands	Uzbekistan
Estonia	New Zealand	Venezuela
Finland	Nigeria	Vietnam
France	Norway	
Georgia	Oman	
Germany	Pakistan	
Greece	Paraguay*	
Hong Kong	Peru	

<sup>\*</sup>Associate Member

The following organizations are Affiliate Members of IMU:

African Mathematical Union (AMU)

European Mathematical Society (EMS)

Mathematical Council of the Americas (MCofA)

South East Asian Mathematical Society (SEAMS)

Unión Matemática de América Latina y el Caribe (UMALCA)

### 2. Financial Information

### 2.1. Approved IMU Membership Dues

#### For the Period 2023-2026

At the IMU General Assembly meeting 2022 in Helsinki, Finland, the delegates decided on the dues structure for the years 2023-2026, see schedule below. Associate and Affiliate IMU members do not pay dues.

Approved membership dues 2023 – 2026 All amounts in EUR							
Year	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>			
Group I	1,460	1,460	1,460	1,460			
Group II	2,920	2,920	2,920	2,920			
Group III	5,840	5,840	5,840	5,840			
Group IV	11,680	11,680	11,680	11,680			
Group V	17,520	17,520	17,520	17,520			

### 2.2. Approved IMU Budget

### For the Period 2023-2026

		Inte	rnation	al Mat	hematio	al Unic	on						
	Proposed new Budget for 2023-2026, in Euro (EUR)												
			2023			2024			2025			2026	
	% of General Income	General	Special	Sum									
INCOME													
I. General		440 600			440 600			440 600			440 600		
I. a Membership Dues Sum General Income		449,680 449,680			449,680 449,680			449,680 449,680			449,680 449,680		
II. Special		443,000			443,000			443,000			443,000		
II.a Special Development Fund			5,000			5,000			5,000			5,000	
II.b Donations			60,000			60,000			60,000			60,000	
II.c Grants			70,000			70,000			70,000			70,000	
Sum Special Income from Third Parties			135,000			135,000			135,000			135,000	
Income from IMU bank accounts			100			100			100			100	
Other Income			25,000			25,000			25,000			25,000	
Sum Special Income from Other Sources			25,100			25,100			25,100			25,100	
TOTAL INCOME		449,680	160,100	609,780	449,680	160,100	609,780	449,680	160,100	609,780	449,680	160,100	609,78
EXPENDITURE													
1. Commissions & Committees (C&C)	<u>45.0%</u>												
1.1 CDC	20.0%	89,936			89,936			89,936			89,936		
1.2 ICMI	15.0%	67,452			67,452			67,452			67,452		
1.3 CWM	5.0%	22,484			22,484			22,484			22,484		
1.4 CEIC	4.0%	17,987			17,987			17,987			17,987		
1.5 ICHM	0.0%	0			0			0			0		
1.6 Ad hoc committees	1.0%	4,497			4,497			4,497			4,497		
1.7 Special support	0.0%	0			0			0			0		
C&C Expenditure		202,356	0	202,356	202,356	0	202,356	202,356	0	202,356	202,356	0	202,35
2. ICM	22.0%												
2.1 Site Committee	1.0%	4,497			4,497			4,497			4,497		
2.2 Program Committee	2.0%	8,994			8,994			8,994			8,994		
2.3 Prize Committees	2.0%	8,994			8,994			8,994			8,994		
2.4 Congress Subvention	5.0%	22,484			22,484			22,484			22,484		
2.5 Travel Grants (Young & Senior)	7.0%	31,478			31,478			31,478			31,478		
2.6 ICM related admin., outreach	5.0%	22,484	0	00.020	22,484	0	00 020	22,484	0	00.020	22,484	0	00.03
ICM Expenditure		98,930	0	98,930	98,930	0	98,930	98,930	0	98,930	98,930	U	98,93
3. Union Administration	20.0%												
3.1 General Assembly	1.0%	4,497			4,497			4,497			4,497		
3.2 President & Secretary	9.0%	40,471			40,471			40,471			40,471		
3.3 Executive Committee	6.0%	26,981			26,981			26,981			26,981		
3.4 Office	3.0%	13,490			13,490			13,490			13,490		
3.5 Other	1.0%	4,497			4,497			4,497			4,497		
Union Administration Expenditure		89,936	0	89,936	89,936	0	89,936	89,936	0	89,936	89,936	0	89,93
omon Administration Expenditure		05,550	•	05,550	05,550	·	05,550	05,550	·	05,550	05,550	•	05,55
4. Outreach	6.0%												
4.1 ICSU Union Member Contribution	2.0%	8,994			8,994			8,994			8,994		
4.2 Awards	1.0%	4,497			4,497			4,497			4,497		
4.3 Website Support, Media Relations	2.0%	8,994			8,994			8,994			8,994		
4.4 Bulletin	0.0%	0,554			0,554			0,334			0,554		
4.5 Other	1.0%	4,497			4,497			4,497			4,497		
4.6 Scientific activity support	0.0%	0			0			0			0		
Outreach Expenditure		26,981	0	26,981	26,981	0	26,981	26,981	0	26,981	26,981	0	26,98
		,						,					
5. Overhead	7.0%												
5.1 Office Expenses	1.0%	4,497			4,497			4,497			4,497		
5.2 Bank Charges	1.0%	4,497			4,497			4,497			4,497		
5.3 Legal Advice, Audit Fees	2.0%	8,994			8,994			8,994			8,994		
5.4 Other	3.0%	13,490			13,490			13,490			13,490		
Overhead Expenditure		31,478	0	31,478	31,478	0	31,478	31,478	0	31,478	31,478	0	31,47
TOTAL EXPENDITURE				449,680			449,680			449,680			449,68
TOTAL CAPENDITORE				<del>-13,000</del>			<del>-12,000</del>			<del>-12,000</del>			<del>-113,08</del>
INCOME LESS EXPENSES				160,100			160,100			160,100			160,10

### 2.3. Independent Auditor's Report

### **Audit Report**

# **Annual Financial Statements** as at 31 December 2024

International Mathematical Union Berlin

Forvis Mazars GmbH & Co. KG Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft

136208-001

### **TABLE OF CONTENTS**

A.	AUDIT ENGAGEMENT	1
В.	CERTIFICATION OF THE ANNUAL FINANCIAL STATEMENTS	3
C.	SUBJECT, NATURE AND SCOPE OF THE AUDIT	4
I.	Subject of the audit	4
II.	Nature and scope of the audit	4
D.	FINDINGS ON AND EXPLANATIONS OF THE ACCOUNTING	6
I.	Compliance of the financial reporting	6
II.	<ol> <li>Accounting records and other documents audited</li> <li>Annual financial statements</li> <li>Management report</li> <li>Overall presentation of the annual financial statements</li> </ol>	6 6 6 7
	<ol> <li>Findings on the overall statements</li> <li>Assessment basis</li> </ol>	7 7
E.	OTHER CLASSIFICATIONS AND EXPLANATIONS OF THE ANNUAL FINANCIAL STATEMENTS	8
I.	Results of operations	8
II.	Financial position	16
F.	FINAL REMARKS	17

The tables may contain rounding differences that vary from values derived from mathematical calculations.

136208-001 | I

#### Forvis Mazars GmbH & Co. KG

International Mathematical Union | Audit Report Annual Financial Statements as at 31 December 2024

### **INDEX OF APPENDICES**

- 1. Statement of Assets and Liabilities as at 31 December 2024
- 2. Statement of Income and Expenditures for 2024
- 3. Schedule of Member Contributions 2024
- 4. Budget Comparison 2024
- 5. Legal and Tax Position

General Engagement Terms

To the International Mathematical Union, Berlin:

#### A. AUDIT ENGAGEMENT

We were engaged by the Secretary General of the

International Mathematical Union Berlin (hereinafter "IMU" or "Association")

to audit and report on the annual financial statements for the reporting year ending 31 December 2024.

Mazars GmbH & Co. KG Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft was rebranded as Forvis Mazars GmbH & Co. KG Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft on 1 June 2024. The legal identity was not affected by the change of name.

In performing the audit engagement awarded to us by the Secretary General, we conducted our audit of the annual financial statements as at 31 December 2024 together with the accounting system in accordance with § 317 HGB (German Commercial Code) and the German generally accepted standards for the audit of financial statements.

In addition, we were engaged to provide an economic analysis of the net assets, financial position and results of operations of the Union in this audit report. We have presented this analysis in section E. of this audit report.

In accordance with § 321 (4a) HGB, we confirm our observance of the applicable regulations governing independence during the performance of our audit.

The IMU is an international association. According to German law, the IMU is an "ideal association" (§ 21 German Civil Code (BGB) non-profit association) since it pursues ideal rather than financial purposes. The Union does not have legal capacity in Germany because it is not registered with the German Register of Associations.

The Union is not required by law to have its annual financial statements audited. In accordance with Article 46 of the IMU Statutes, the Executive Committee must have the annual accounts audited at least once every four years and present this audit report to the General Assembly, which takes place every four years. In continuation of current practice, the audit of the annual financial statements is performed annually. The financial statements consist of a statement of assets and liabilities as well as a statement of income and expenditures. According to the size definitions of § 267a German Commercial Code (HGB), the IMU would be classified as a micro entity. However, the audit was performed in conformity with the accounting regulations applicable to small entities.

#### Forvis Mazars GmbH & Co. KG

International Mathematical Union | Audit Report Annual Financial Statements as at 31 December 2024

This report was prepared by us in accordance with the auditing standards of the *Institut der Wirtschaftsprüfer in Deutschland e.V.* IDW PS 450 n.v. "Generally Accepted Standards for the Presentation of Long-form Audit Reports for the Audit of Financial Statements" (10.2021).

The performance of our engagement and our responsibility, also towards any third parties, are governed by the general engagement terms for German public auditors and public audit firms as amended on 1 January 2024, attached as an appendix. Accordingly, our liability is limited in accordance with No. 9 of the general engagement terms. Towards third parties, No. 1 (2) and No. 9 of the general engagement terms apply.

This document is a translation of the German report, which is the solely legally binding version.

## B. CERTIFICATION OF THE ANNUAL FINANCIAL STATEMENTS

We issue the following unqualified opinion on the financial statements as of 31 December 2024 of International Mathematical Union, Berlin, in the version attached to this report as Appendices 1 and 2:

#### **Independent Auditor's Report**

International Mathematical Union, Berlin

We have audited the financial statements, comprising the balance sheet and the income statement, together with the bookkeeping system, of the International Mathematical Union, Berlin, for the business year from January 1, 2024 to December 31, 2024. The accounting records and the preparation of the annual financial statements in accordance with German legal requirements are the responsibility of the Association's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the IDW Auditing Standard: Audits of Public Limited Companies (IDW PS 750). Those standards require that we plan and perform the audit such that misstatements resulting from fraud or error which have a material effect on the presentation of the annual financial statements are detected with reasonable assurance. Knowledge of the business activities and the economic and legal environment of the Association and expectations as to possible misstatements are taken into account in the determination of audit procedures. The effectiveness of the accounting-related internal controls and the evi-dence supporting the disclosures in the books and records and the annual financial state-ments are examined primarily on a test basis within the framework of the audit. The audit includes assessing the accounting principles used and significant estimates made by the Board of Directors, as well as evaluating the overall annual financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the accounting records, the statements of assets and liabilities and the statement of income and expenditures of the Association comply with generally accepted accounting principles and the legal requirements of an association.

### C. SUBJECT, NATURE AND SCOPE OF THE AUDIT

### I. Subject of the audit

The subject of our audit was the annual financial statements (statements of assets and liabilities and the statement of income and expenditures) together with the bookkeeping system, prepared in accordance with German accounting principles.

We point out, that the bookkeeping and the preparation of the annual financial statements are the responsibilities of the IMU's Treasurer.

In preparing the annual financial statements, the legal representatives are responsible for assessing the IMU's ability to continue functioning as an association. Furthermore, they are responsible for disclosing, matters related to the association's ability to continue as a going concern. In addition, they are responsible for preparing the financial statements on the basis of the going concern principle, unless factual or legal circumstances prevent this.

Our responsibility is to provide an opinion on the annual financial statements including the bookkeeping system based on our audit.

As of 1 January 2011, the IMU has kept its Permanent Secretariat in Berlin which is hosted by the *Weierstraß-Institut for Applied Analysis and Stochastics (WIAS)*, Berlin. The Federal Republic of Germany and the State of Berlin grant annual financial support for the IMU Secretariat, in particular by assuming personnel and material costs in the amount of approximately  $k \in 550$  borne directly by the WIAS, which are therefore not recorded in the statement of income and expenditures.

An audit of compliance with other statutory regulations is part of our engagement only to the extent that those regulations typically have an effect on the annual financial statements.

In accordance with § 317 (4a) HGB the audit does not extend to whether the ability of the International Mathematical Union to continue as a going concern or the effectiveness and efficiency of its management board can be assured.

### II. Nature and scope of the audit

Our audit was conducted in accordance with § 317 HGB and German generally accepted standards for the audit of financial statements promulgated by the Institut der Wirtschaftsprüfer in Deutschland e.V. (IDW), in particular IDW PS 750 "Audit of Associations".

Those standards require that we plan and perform the audit such that misstatements resulting from fraud or error which have a material effect on the presentation of the net assets,

#### Forvis Mazars GmbH & Co. KG

International Mathematical Union | Audit Report Annual Financial Statements as at 31 December 2024

financial position and results of operations in the annual financial statements in accordance with German principles of proper accounting are detected with reasonable assurance.

The audit includes assessing the accounting principles used and significant estimates made by the Board of Directors, as well as evaluating the overall presentation of the annual financial statements.

The starting point was the previous year's financial statements as at December 31, 2023, which were audited by us and issued with an unqualified certificate. The adoption of the annual financial statements is not provided for in the Articles of Association. Instead, a budget for the following four-year period is prepared on the basis of every fourth annual financial statement. The budget for the period January 1, 2023 to December 31, 2026 was adopted at the 19th General Assembly in Helsinki, Finland, on July 3 and 4, 2022.

Based on the risks of error identified and assessed by us, we have prepared a risk profile for the disclosures in the annual financial statements. For this purpose, we performed risk assessment procedures to obtain an understanding of the Association and its economic and legal environment and, based on this, assessed the Association's objectives and strategies and their implementation in order to determine the business risks that could lead to material misstatements in the financial reporting.

We used our professional judgment to obtain an understanding of the design of the internal controls and assessed the measures taken by the Association, in particular to ensure the propriety and reliability of the financial reporting, to manage these business risks without, however, performing a detailed systems analysis.

We examined the complete and timely recording of business transactions on a sample basis and satisfied ourselves that the dual control principle was implemented as the main instrument of the internal controls.

For this audit engagement, we did not obtain balance confirmations for debtors, as they are exclusively members of the Association.

We performed the audit with interuptions in the period from March to August 2024.

The Executive Board provided us with all the information and evidence requested. As the legal representative, it has assured us in writing in its declaration of completeness that the disclosures and evidence provided are complete. It has also declared that all business transactions have been recorded and reflected in the annual financial statements.

## D. FINDINGS ON AND EXPLANATIONS OF THE ACCOUNTING

### I. Compliance of the financial reporting

#### 1. Accounting records and other documents audited

Our audit verified that the formal and material propriety of the accounting complied with German generally accepted accounting principles and other legal requirements.

The accounting records of the Union were maintained properly. The records were complete. Based on the findings of our audit, the accounting records and other documents audited complied with legal regulations in all material respects. The information extracted from other documents audited was properly reflected in the accounting records and in the annual financial statements in all material respects.

The organization of the accounting, the accounting-related internal controls, data flows and recordkeeping were fundamentally appropriate for ensuring the completeness, the accuracy, the timely and orderly recording and booking of business transactions.

#### 2. Annual financial statements

The annual financial statements we have audited for the financial year from January 1 2024 to December 31 2024 have been properly derived from the accounting records and the underlying documents of the Union in all material respects. These annual financial statements have been prepared correctly in all material respects in analogous application of the provisions of the third book of the German Commercial Code (§§ 238 et seq.), taking into account the supplementary provisions for corporations in the second section (§§ 264 et seq.).

The opening balance sheet values were duly adopted from the previous year's financial statements. The statutory provisions on recognition, disclosure and measurement were observed in all material respects.

The association is not legally obliged to prepare notes to the annual financial statements. The IMU has permissibly waived the preparation of such notes.

#### 3. Management report

The association is not legally obliged to prepare a management report. The IMU has permissibly waived this requirement.

The IMU reports annually to its members in the form of an annual report (Bulletin of the International Mathematical Union). The current Bulletin is No. 75 from December 2023. Printed copies are made available to the member countries. The electronic document is available for download on the IMU website (http://www.mathunion.org/membership/imu-bulletins).

#### Forvis Mazars GmbH & Co. KG

International Mathematical Union | Audit Report Annual Financial Statements as at 31 December 2024

The content of this bulletin is in particular the presentation of IMU activities to promote mathematics in the world and the proper use of membership fees and donations.

According to information provided by the legal representatives and the results of our audit, there were no events of particular significance that occurred after the end of the financial year.

### II. Overall presentation of the annual financial statements

#### 1. Findings on the overall statements

On the basis of the audit we performed by executing our professional duties, the annual financial statements correspond in all material respects to the statutory regulations. Because the Association is not required to prepare notes, the annual financial statements do not satisfy the general standard in accordance with § 264 (2) HGB.

#### 2. Assessment basis

The exercise of accounting and valuation options and the assumptions and exercise of discretionary powers correspond to the previous year and do not reveal any trends with a significant impact on the net assets, financial position and results of operations of the annual financial statements.

Foreign currency receivables and liabilities are recognized in the accounts in euros at the exchange rate at the time they arise. If necessary, they are valued at the lower (for receivables) or higher (for liabilities) exchange rate on the balance sheet date.

## E. OTHER CLASSIFICATIONS AND EXPLANATIONS OF THE ANNUAL FINANCIAL STATEMENTS

### I. Results of operations

The summarized statements of income and expenditures for the past two financial years show the following structure and changes in the results of operations:

	202	4	202	23	impact
	k€	%	k€	%	k€
Revenues	586	100.0	589	100.0	-3
Expenses for scientific promotion and scientific activities	-297	-50.7	-265	-45.0	-32
Expeses for administrative tasks	-96	-16.4	-100	-17.0	4
Expenses	-393	-67.1	-365	-62.0	-28
Operating result	193	32.9	224	38.0	-31
Interest result	10	1.7	7	1.2	3
Total result before income taxes	203	34.6	231	39.2	-28
Income taxes	0	0.0	0	0.0	0
Annual surplus	203	34.6	231	39.2	-28
Withdrawal/Allocation from/to reserves (net)	-203	-34.6	-231	-39.2	28
Fund transfer	0	0.0	0	0.0	0

In the financial year, the IMU generated revenues of k€ 586, which mainly consists of membership fees. In addition, the IMU receives further donations, which generally come from scientific organizations.

#### **Revenues** are composed of the following:

	k€
Member contributions	451
Donations - international	35
Other income	100
	586

The composition of **Member contributions** is shown in Appendix 3 to this report.

#### **Donations - international** are composed of the following:

	k€
FIMU – IMU breakout Fellowship	30
Niels Henrik Abel Board, Norwegen	4
Others	
	<u>35</u>

Other income (k€ 100) largely involves profits from currency rate fluctuations (k€ 38).

**Expenses** of k€ 393 (prior year: k€ 365) are shown in detail in the statement of income and expenditures (Appendix 2) as well as in the Budget Comparison (Appendix 4).

While **general administrative expenses** decreased by k€ 4 in the reporting year, **expenses for scientific promotion and scientific activities** increased significantly by k€ 32.

In order to assess the financial situation and changes in it, the statements of assets and liabilities for the last two financial years are compared in summarized form:

	31.12.2	2024	31.12.2	2023	change
	k€	%	k€	%	k€
ASSETS					
Current Assets					
Receivables from member contributions	145	5.2	94	3.7	51
Other assets (incl. prepaid expenses and deferred charges)	1	0.0	1	0.0	0
Liquid funds	2,661	94.8	2,421	96.2	240
	2,807	100.0	2,516	100.0	291
LIABILITIES					
Equity capital	2,402	85.6	2,199	87.4	203
Debt capital					
Provisions Liabilities from earmarked grants	18 319	0.6 11.4	72 165	2.9 6.6	-54 154
Other liabilities (incl. deferred income)	68	2.4	80	3.2	-12
	405	14.4	317	12.6	88
	2,807	100.0	2,516	100.0	291

Receivables from member contributions are broken down by country as follows:

country	year	VA	amount in €
	<u> </u>		
Algeria	2024	*	1,460.00
Argentinia	2024		5,840.00
Armenia	2024		1,460.00
Cameroon	2024		1,460.00
Cuba	2024	*	1,460.00
Ecuador	2024		1,460.00
Egypt	2024		2,920.00
Greece	2024		1,460.00
Iceland	2024		1,460.00
India	2024		11,680.00
Iran	2024		5,080.00
Kenya	2024	*	1,460.00
Kyrgyzstan	2024	*	1,460.00
Luxembourg	2024		1,460.00
Malaysia	2024		1,460.00
Montenegro	2024	*	1,460.00
Morocco	2024		1,460.00
Pakistan	2024		1,460.00
Peru	2024	*	1,460.00
Russia	2024		17,520.00
Saudi Arabia	2024	*	1,460.00
Senegal	2024		1,460.00
Turkey	2024		2,920.00
Venezuela	2024		1,460.00
Belarus	2024		1,460.00
Delaius	2024		73,700.00
			73,700.00
Cuba	2023		1,460.00
Kazakhstan	2023		30.00
Kyrgyzstan	2023	*	1,460.00
Montenegro	2023	*	1,460.00
Morocco	2023		1,460.00
Russia	2023		17,520.00
Saudi Arabia	2023		1,460.00
Senegal	2023	*	1,460.00
Jenegal	2023		26,310.00
			20,010.00
Cuba	2022		1,430.00
Kenya	2022	*	1,430.00
Kyrgyzstan	2022	*	1,430.00
Montenegro	2022		1,430.00
Peru	2022	*	1,430.00
Russia	2022		17,160.00
Saudi Arabia	2022		1,430.00
January Habita	2022		25,740.00
			23,7 10.00
transfer:			125,750.00

transfer:  Algeria Iran Kenya Kyrgyzstan Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan Montenegro Peru  Kyrgyzstan	2021 2021 2021 2021 2021 2021 2021 2021	*     *     *     *     *     *     *	125,750.00 1,430.00 11,440.00 1,430.00 1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Algeria Iran Kenya Kyrgyzstan Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan Montenegro Peru  Kyrgyzstan	2021 2021 2021 2021 2021 2021 2021 2020 2020	* * * * * *	1,430.00 11,440.00 1,430.00 1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Iran Kenya Kyrgyzstan Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan  Kyrgyzstan	2021 2021 2021 2021 2021 2021 2021 2020 2020	* * * * * *	11,440.00 1,430.00 1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Iran Kenya Kyrgyzstan Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan  Kyrgyzstan	2021 2021 2021 2021 2021 2021 2021 2020 2020	* * *	11,440.00 1,430.00 1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Kenya Kyrgyzstan Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2021 2021 2021 2021 2021 2021 2021 2020 2020	* * *	1,430.00 1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Kyrgyzstan Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan  Kyrgyzstan	2021 2021 2021 2021 2021 2021 2020 2020	* * *	1,430.00 1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Montenegro Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2021 2021 2021 2021 2021 2020 2020	* * *	1,430.00 1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Peru Tunisia Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2021 2021 2021 2021 2020 2020	* *	1,430.00 35.00 409.99 19,034.99 1,430.00 7,848.23
Venezuela  Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2021 2020 2020	* *	35.00 409.99 19,034.99 1,430.00 7,848.23
Algeria Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2020 2020	*	409.99 19,034.99 1,430.00 7,848.23
Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2020	*	19,034.99 1,430.00 7,848.23
Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2020	*	7,848.23
Iran Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan	2020	*	7,848.23
Kenya Kyrgyzstan Montenegro Peru  Kyrgyzstan		*	· ·
Kyrgyzstan Montenegro Peru  Kyrgyzstan	2020	*	4 400 00
Montenegro Peru  Kyrgyzstan			1,402.62
Peru Kyrgyzstan	2020	*	1,430.00
Kyrgyzstan	2020	*	126.44
' <del></del> -	2020		1,430.00
' <del></del> -			13,667.29
' <del></del> -	2019	*	1,430.00
Peru	2019		388.87
l elu	2019		1,818.87
			,
Kyrgyzstan	2018	*	581.25
			581.25
total receivables			160 952 40
			160,852.40
IVA 50 % (marked with *)			-16,190.16 144,662.24

At the end of 2024 the outstanding member contributions were k€ 161. Contributions of the reporting year in the amount of k€ 116 were still outstanding at the time of our audit. As a result of consistent non-payment of their member contributions, open receivables of the above countries, marked with a star "\*", were directly written down by 50%.

**Liquid funds,** parts of which are in foreign currency, are located in accounts with the Deutsche Bank AG and are composed of the following:

	Foreign currency	€
Account in € (5113915 10)		944,591.69
Account in CHF (5113915 01)	CHF 73,699.44	78,303.70
Account in USD (5113915 00)	USD 524,728.69	505,081.04
Account in USD (5113915 06)	USD 310,596.57	298,966.76
Account in € (5113915 00)		312,325.87
Account in € (5113915 05)		213,717.85
Account in € (5113915 04)		156,970.72
Account in € (5113915 11)		45,314.16
Account in € (462968900)		105,212.93
Cash in €		427.47
		2,660,912.19

The conversion of foreign currency into euro occurred at the period-end exchange rate.

**Equity capital** at the period-end date is composed of the following:

	k€	k€
Association net assets		307
Reserves		
- Annual surplus 2007 - 2023	1,499	
- Annual surplus 2024	203	
- ICMI and CDC (Commission Fund)	393	2,095
		2,402

The Statutes do not make reference to association net assets.

Of the equity capital of the Association, € 307,465.98 originates from the time before moving the domicile of the IMU to Germany as of 1 January 2007. Revenues earned as of 2007 are allocated to reserves in accordance with the recommendations of the IMU Secretary General and of the Treasurer at the end of the reporting year. The General Assembly reaches a resolution every four years on the creation of reserves.

#### Reserves are allocated as follows:

	k€
Fields-Medal 2026	50
General Assembly 2026	90
ICM subsidy	66
Support Program/Structure Committee	24
ICM travel grants	144
ICM-Outreach	75
ICM default reserve	450
ICMI and CDC	393
Support CEIC	52
Support CWM	32
Support CDC DC	20
Outreach (IDM 2024 / 100 years IMU)	15
Digitisation	93
Co-financing and support of international projects	36
Digital infrastructure	30
Unrestricted reserves	525
	<u>2,095</u>

Disclosed under <u>ICMI und CDC</u> (Commission Fund) are funds which the IMU has made available to its ICMI and CDC commissions for their work in the coming year. The restricted reserves for ICMI amount to € 171,113.36 and for CDC to € 222,132.80.

**Provisions** involve expenses for the proceedings of the audit of the annual accounts and the preparation of the 2024 tax declarations ( $k \in 10$ ) as well as the IDM contributions for 2024 ( $k \in 7$ ).

### The main Liabilities from restricted donations developed as follows:

	€	€
Special Development Fund	_	
Per 1 Jan 2024	_	4,688.23
Inflow for London Mathematical Society (USD 5.000)		4,626.20
Per 31 Dec 2024		9,314.43
Simons Foundation Africa Fund		
Per 1 Jan 2024		1,628.72
Expenditure for IDM Simons Project 2024		1,628.72
Per 31 Dec 2024		0.00
Commemorative publication 100 Years IMU/KTS		
Per 1 Jan 2024	_	43,785.21
Expenditure KTS		-36,169.21
Per 31 Dec 2024		7,616.00
Simons Foundation/RFP 2024-2026		
Per 1 Jan 2024		0.00
Inflow for Simons Foundation for RFP 2024-2026		189,669.95
Expenditures for Traver Fellowships for (16) scientists		-61,967.11
Per 31 Dec 2024		127,702.84
GRAID/CDC		
Per 1 Jan 2024		0.00
Inflow for AMS/Simons		13,842.59
Inflow for KTS		31,310.28
Expenditures GRAID		0.00
Per 31 Dec 2024		45,152.87
IMU Reserve Fund		
Per 1 Jan 2024		72,885.58
Inflow Simons Foundation (30.000)		26,795.29
Expenditures for pending IMU-Member contributions	_	<u>-11,680.00</u>
Per 31 Dec 2024		88,000.87

	€	€
IDM 2024		
Per 1 Jan 2024		0.00
Inflow for Simons Foundation for IDM 2024		13,397.64
Expenditures for IDM measures 2024		-13,397.64
Per 31 Dec 2024		0.00
FIMU/BGF 2024		
Per 1 Jan 2024		0.00
Inflow FIMU for BGF 2024		72,777.06
Expenditures BGF		-72,777.06
Per 31 Dec 2024		0.00
		277,787.01

The funds shown under **Special Development Fund (SDF)** are for the support of mathematicians from developing countries for travel to International Congresses of Mathematicians (ICM). An international committee decides on the grant applications.

The funds provided by the Simons Foundation are designated as a Travel Fellowship for research stays of mathematicians from developing countries. The especially for mathematicians from Africa reserved **Simons Foundation Africa Fund** was closed and is followed by the IMU-Simons Research Fellowship Program for mathematicians from developing countries since April 2024.

The funds received from the **Klaus Tschira Stiftung** (KTS) are designated for financing a commemorative publication on occasion of the 100<sup>th</sup> anniversary of the founding of the International Mathematical Union. The commemorative publication was published as the book 'Framing Global Mathematics' in 2022.

The **Simons Foundation** will provide TUSD 15 annually for the International Day of Mathematicians (IDM) for the period from 2022 to 2026.

The **Graduate Assistantships in Developing Countries Program** (GRAID) supports newly developing research groups in developing countries. With the support of GRAID, research groups can finance the studies (Masters or PhD) of their most gifted students. GRAID is financed by donations of mathematicians and mathematical associations from all over the world. In the year 2024 GRAID received a Donation of k€ 31 from the KTS 'IMU-100'-Fund.

The **IMU Reserve Fund** was established in 2022, to support member organisations that fall behind with their member contributions due to temporary extreme and adverse circumstance-es. In the reporting year, at the request of five member countries, funds from the reserve fund were used to settle the outstanding membership fees of the applicants. The funding will

be provided through dedicated contributions. Applications for assistance will be reviewed by the IMU Executive Committee and decided on a case-by-case basis. The Executive Committee will report on this principle at IMU's next General.

The **Special Support CDC** includes k€ 41, unchanged from the previous year, for IMU's commission CDC from the agreement with the Det Norske Videnskaps-Akademi (initially until 2025) to support programs in developing countries, primarily conferences (Conference Support Program) and guest lectures by international lecturers (Volunteer Lecturer Program).

Other liabilities largely involve the bank balance held for the International Commission on the History of Mathematics (ICHM) in the amount of k€ 45 as well as the managed bank balances for the Standing Committee for Gender Equality in Science (SCGES) in the amount of k€ 5 and funds to be further transferred in conjunction with the Project Gender Gap in Mathematical and Natural Sciences in the amount of k€ 4.

### II. Financial position

The IMU was at all times in a position to meet its payment obligations in a full and timely manner. The cash flow from current activities amounts to  $k \in 239$  and corresponds to the change in cash between 1 January 4 ( $k \in 2,422$ ) and 31 December 4 ( $k \in 2,661$ ).

### F. FINAL REMARKS

Publication or reproduction of the annual financial statements of the International Mathematical Union, Berlin, for the financial year from 1 January 2024 to 31 December 2024 in a form different from the certified form, which is attached as an Appendix to this report, again requires our consent if our attestation is quoted or if reference is made to our audit. We herein refer to § 328 HGB.

Berlin, 22 August 2025

Forvis Mazars GmbH & Co. KG Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft

In the original German version signed by:

Ralf Bierent Wirtschaftsprüfer Jacqueline Kotynski Wirtschaftsprüfer

International Mathematical Union, Berlin

STATEMENT OF ASSETS AND LIABILITIES as at 31 December 2024

ASSETS	per 31 Dec 2024	2023	LIABILITIES	per 31 Dec 2024	2023
	A.	÷		the state of the s	#
A. Current Assets			A. Net Assets		
I. Receivables and other			I. Association net assets	307,465.98	307,465.98
assets Receivables from member contributions	144,662.24	94,006.01	II. Keserves	2,094,654.34 2,402,120.32	2,402,120.32 2,199,163.70
	144,662.24	94,006.01	B. Provisions	17,710.00	72,411.07
II. Cash-in-hand, bank balances*	2,660,912.19	2,660,912.19 2,421,507.27 C. Liabilities	C. Liabilities  1 Liabilities from restricted donations	319 473 88	164 674 61
B. Prepaid Expenses	1,356.00		1,014.00 2. Other liabilities	55,946.23 375,420.11	
			D. Deferred Income	11,680.00	7,300.00
Total Assets	2,806,930.43	2,516,527.28	Total Liabilities	2,806,930.43	2,516,527.28

\* contained therein ICMI € 213,717.85 and CDC € 156,970.72

### International Mathematical Union, Berlin

### STATEMENT OF INCOME AND EXPENDITURES for 2024

				Prior year
	€	€	€	€
Revenues			586,102.61	589,328.12
Member contributions	451,140.00			450,896.60
Donations - international	35,210.79			130,047.27
Other income	99,751.82			8,384.25
Expenses for Scientific Promotion and Scientific Activities		-296,687.54		-265,212.82
Promotion of scientific activities	-272,738.29	,		-243,570.17
Expenditures ICM and GA	0.00			-13,150.14
Travel expenses	0.00			-500.00
Award ceremonies	0.00			-7,992.51
Other	-23,949.25			0.00
Administrative expenses		-95,845.63		-99,517.78
Reimbursement personnel expenses	-3,020.80			-4,168.98
Travel expenses	-58,307.34			-48,082.73
Audit fees	-12,935.00			-10,270.00
Member contributions	-6,494.00			-4,411.00
Postage	-429.97			-416.10
Bank fees	-1,075.60			-695.85
Other	-13,582.92			-31,473.12
Other Expenditures			-392,533.17	-364,730.60
Interest and Similar Income			9,387.18	6,799.54
Interim Result			202,956.62	231,397.06
Other Taxes		-	0.00	0.00
Annual Surplus			202,956.62	231,397.06
Withdrawals from Reserves			22,031.56	20,022.30
Allocation to Reserves		-	-224,988.18	-251,419.36
Unallocated Cash Balance			0.00	0.00

### International Mathematical Union, Berlin

#### **Schedule of Member Contributions 2024**

Country	amount EUR
Algeria	1,460.00
Argentina	5,840.00
Armenia	1,460.00
Australia	11,680.00
Austria	2,920.00
Belgium	5,840.00
Belarus	1,460.00
Bosnia & Herzegovina	1,460.00
Brazil	17,520.00
Bulgaria	1,460.00
Cameroon	1,460.00
Canada	17,520.00
Chile	5,840.00
China	10,512.00
Colombia	1,460.00
Croatia	1,460.00
Cuba	1,460.00
Cyprus	1,460.00
Czech Republic	5,840.00
Denmark	5,840.00
Ecuador	1,460.00
Egypt	2,920.00
Estonia	1,460.00
Finland	5,840.00
France	17,520.00
Georgia	1,460.00
Germany	17,520.00
Greece	1,460.00
Hong Kong	1,460.00
Hungary	5,840.00
Iceland	1,460.00
India	11,680.00
Indonesia	2,920.00
Iran	11,680.00
Ireland	2,920.00
Israel	17,520.00
Italy	17,520.00
Ivory Coast	1,460.00
Japan	17,520.00
Kazakhstan	1,460.00
Kenya	1,460.00
Korea, Republic of	17,520.00

### International Mathematical Union, Berlin

#### **Schedule of Member Contributions 2024**

country	amount EUR
Kyrgyzstan	1,460.00
Latvia	1,460.00
Lithuania	1,460.00
Luxembourg	1,460.00
Malaysia	1,460.00
Mexico	5,840.00
Mongolia	1,460.00
Montenegro	1,460.00
Morocco	1,460.00
Netherlands	11,680.00
New Zealand	1,460.00
Nigeria	1,460.00
Norway	5,840.00
Oman	1,460.00
Pakistan	1,460.00
Peru	1,460.00
Philippines	1,460.00
Poland	11,680.00
Portugal	5,840.00
Romania	1,460.00
Russia	17,520.00
Saudi Arabia	1,460.00
Senegal	1,460.00
Serbia	1,460.00
Singapore	1,460.00
Slovakia	2,920.00
Slovenia	1,460.00
South Africa	2,920.00
Spain	11,680.00
Sweden	11,680.00
Switzerland	11,680.00
Taiwan	7,008.00
Thailand	1,460.00
Tunisia	1,460.00
Turkey	2,920.00
Ukraine	2,920.00
United Kingdom	17,520.00
Uruguay	1,460.00
USA	17,520.00
Venezuela	1,460.00
Vietnam	1,460.00
Uzbekistan	1,460.00
total	451,140.00

#### INTERNATIONAL MATHEMATICAL UNION

## **Budget Comparison 2024**

	% of	Е	Budget 2024			Actual 2024	
	General		EUR			EUR	
	Income	General	Special	Sum	General	Special	Sum
INCOME							
I. General		450.007			451 140		
I.a Membership Dues Sum General Income		450,897 450,897			451,140 451,140		
II. Special		430,837			431,140		
II.a Special Development Fund			4,500			0	
II.b Donations			46,500			30,594	
II.c Grants			33,200			4,617	
Sum Special Income from Third Parties	,		84,200			35,211	
II.d Income from IMU bank accounts			1,000			9,387	
II.e Other Income			25,000			99,752	
Sum Special Income from Other Sources	5		26,000			109,139	
TOTAL INCOME		450,897	110,200	561,097	451,140	144,350	595,490
EXPENDITURE							
1. Commissions & Committees (C&C)	45.00%						
1.1 CDC	20.00%	90,179	37,700	127,879	90,179	39,595	
1.2 ICMI	15.00%	67,635			89,484	-	
1.3 CWM	5.00%	22,545			23,897		
1.4 CEIC	4.00%	18,036			2,106		
1.5 Ad Hoc Committees	1.00%	4,509	4,500	<u>9,009</u>			
1.6 Special Support	0.00%	0	42,000	42,000		27,477	
1.7 ICHM	0.00%	0		<u>o</u>			
C&C Expenditure	:	202,904	84,200	287,104	205,666	67,073	272,73
2. ICM	22%						
2.1 Site Committee	1%	4,509					
2.2 Program Committee	2%	9,018					
2.3 Prize Committees	2%	9,018					
2.4 Congress Subvention	5%	22,545					
2.5 Travel Grants (Young & Senior)	7%	31,563	4,500	<u>36,063</u>			
2.6 ICM related admin., outreach	5%	22,545					
ICM Expenditure	2	99,197	4,500	103,697	0	0	9
3. Union Administration	20%						
3.1 General Assembly	1%	4,509	4,500	<u>9,009</u>			
3.2 President & Secretary	9%	40,581			25,895		
3.3 Executive Committee	6%	27,054			21,899		
3.4 Office	3%	13,527			8,631		
3.5 Other	1%	4,509	,		12,953		
Union Administration Expenditure	2	90,179	4,500	<u>94,679</u>	69,378	0	<u>69,378</u>
4. Outreach	6%						
4.1 ISC	2%	9,018			6,494		
4.2 Awards	1%	4,509					
4.3 Website Support, Media Relations	2%	9,018	4,500	13,518	9,018	14,931	
4.4 Other	1%	4,509	4,500	<u>9,009</u>			
4.5 Scientific Activity Support	0%	0	0.000	20.05	45.540	44.034	20.45
Outreach Expenditure		27,054	9,000	<u>36,054</u>	15,512	14,931	30,443
5 Overhand	301						
5. Overhead	7%	4.500	4.500		4.500		
5.1 Office Expenses	1%	4,509	4,500	<u>9,009</u>	4,509	413	
5.2 Bank Charges	1%	4,509	1,000	<u>5,509</u>	1,076	2.047	
5.3 Legal Advice, Audit Fees 5.4 Other	2%	9,018 13,527	1,500	<u>10,518</u>	9,018	3,917	
	3%		1,000	<u>14,527</u>	1,041	4.330	10.07
Overhead Expenditure	1	31,563	8,000	39,563	15,644	4,330	19,97
		I					
TOTAL EVOCADITUES				561.007			202.52
TOTAL EXPENDITURE				<u>561,097</u>			392,53
Transfer to liabilities from donations not yet spent							
Transfer to liabilities from donations not yet spent Interim Result				<u>o</u>			202,95
Transfer to liabilities from donations not yet spent							392,533 202,953

## **Legal and Tax Position**

## 1. Legal Position

#### **Association, Legal Domicile**

International Mathematical Union, Berlin/Germany

The IMU is an international association. According to German law, the IMU is an "ideal association" (§ 21 German Civil Code (BGB)) since it pursues ideal purposes rather than financial purposes. The Association does not have legal capacity in Germany because it is not registered with the German Register of Associations.

The legal domicile of the IMU was located in Princeton/USA, until 31 December 2006. According to article 29 of the IMU Statutes, as amended in 2010, the legal domicile of the Union shall be located at the offices of the Union.

Since 1 January 2011 the permanent Secretariat of the Union is located in Berlin/Germany.

#### **Place of Management**

IMU Secretariat, Hausvogteiplatz 11A, 10117 Berlin/Germany

The IMU Secretariat transacts the entire routine operative business of the IMU. This includes the administrative support of the International Commission on Mathematical Instruction (ICMI) and the Commission for Developing Countries (CDC). In addition, the IMU Secretariat is also responsible for bookkeeping and monetary transactions; it prepares the annual financial statements and operates the IMU archives.

#### **Statutes**

The Statutes were last amended in July 2022 by a resolution of the 19<sup>th</sup> General assembly in Helsinki/Finland. The changes included, among other things, the introduction of a new Article 3 (General Principle of the International Science Council) and the consequent shifting of all other articles in the numeration by one digit. A certified German translation is on file.

#### **Objectives of the Association**

According to Article 1 of the Statutes:

- "(a) to promote international cooperation in mathematics;
- (b) to support and assist the International Congress of Mathematicians and other international scientific meetings or conferences;
- (c) to encourage and support other international mathematical activities considered likely to contribute to the development of mathematical science in any of its aspects, pure, applied, or educational."

#### Association net assets, Members

The Statutes make no provision for association net assets. Association net assets amounted to k€ 307 on 1 January 2007, the time when the legal domicile was transferred from Princeton/USA to Berlin/Germany.

According to Article 4 (according to the new numeration), a country adheres to the Association through an adhering organization. This may be the principal academy, a mathematical society, its research council or some other institution or association of institutions, or an appropriate agency of its government. At the end of 2024, the IMU had 83 regular members (voting), two associate members (non-voting) and five affiliate members (non-contributory and non-voting).

#### **Executive Committee, Representatives**

As of 1 January 2023, the members of the Executive Committee are the following persons:

- Hiraku Nakajima, Japan (President)
- Christoph Sorger, France (Secretary General)
- Ulrike Tillmann, UK (Vice-President)
- Tatiana Toro, USA/Colombia (Vice-President)
- Mouhamed Moustapha Fall, Senegal (Member-at-Large)
- Nalini Joshi, Australia (Member-at-Large)
- JongHae Keum, Korea/Republic of (Member-at-Large)
- Paolo Piccione, Brazil (Member-at-Large)

- Günter M. Ziegler, Germany (Member-at-Large)
- Tamar Ziegler, Israel (Member-at-Large)
- Carlos E. Kenig, USA (Member of the Executive Committee ex-officio because he was the President of the IMU in the preceding term of office)

#### **Reporting Year**

The reporting year corresponds to the calendar year.

The Bulletins are made available to members via the homepage www.mathunion.org. All members are informed about each new publication via e-mail. A printed version of the Bulletin will be produced and sent upon individual request.

#### **General Assembly**

The following was resolved during the last General Assembly in Helsinki/Finland in July 2022:

- Adoption of the annual financial statements of 2018 to 2021 and development of financial reserves from the annual surpluses, corresponding to the respective Statement of Income and Expenditures.
- Release from liability of the IMU Executive Committee and IMU Treasurer for the years from 2018 to 2021.
- Budget for the time between 2023 and 2026.
- Increase in member contributions between 2023 and 2026 to € 1,460.00 per unit (unit contribution).
- Composition of the various committees and commissions
- Establishment of a reserve fund to support member organisations that fall behind with the member contributions due to temporary extreme and adverse circumstances. The funding will be provided through dedicated contributions. Applications for assistance will be reviewed by the IMU Executive Committee and decided on a case-by-case basis.
- The next General Assembly will take place in 2026 in New York City/USA.

#### 2. Tax Information

The Association is registered with the Finanzamt für Körperschaften (tax office for corporations) I, Berlin, under the tax number 27/640/57572.

Appendix 5/Page 4

At the time of the audit, no tax assessment notifications had been issued for the Association, which has had its legal domicile in Germany since 2007.

The Association is non-profit. After common inquiries on 16 April 2007 at the Finanzamt für Körperschaften I, Berlin, the formal requirements for the recognition as a non-profit organization were fulfilled. The final certification of the non-profit status will be made after actual fulfilment of the requirements.

The Finanzamt für Körperschaften I, Berlin, issued a preliminary certification to the IMU on May 4 2007. This was done upon the instruction of the Senatsverwaltung für Finanzen, Berlin, before it issued a notice of exemption for 2007 and 2008 on June 9 2009.

The Finanzamt für Körperschaften I issued its last notice of exemption for 2021 to 2023, in which the current income of the IMU is exempt from corporate and trade tax. In addition, revenue from capital of the IMU is not subject to withholding tax on capital up to December 31 2028. The IMU is entitled to issue donation confirmations.

-----

## General Engagement Terms

for

Wirtschaftsprüferinnen, Wirtschaftsprüfer and Wirtschaftsprüfungsgesellschaften [German Public Auditors and Public Audit Firms]

as of January 1, 2024

#### Scope of application

- (1) These engagement terms apply to contracts between German Public Auditors (Wirtschaftsprüferinnen/Wirtschaftsprüfer) or German Public Audit Firms (Wirtschaftsprüfungage sellschaften) hereinafter collectively referred to as "German Public Auditors" and their engaging parties for assurance services, tax advisory services, advice on business matters and other engagements except as otherwise a greed in writing (Textform) or prescribed by a mandatory rule.
- (2) Third parties may derive claims from contracts between German Public Auditors and engaging parties only when this is agreed or results from mandatory rules prescribed by law. In relation to such claims, these engagement terms also apply to these third parties. A German Public Auditor is also entitled to invoke objections (Einwendungen) and defences (Einreden) arising from the contractual relationship with the engaging party to third parties.

#### 2. Scope and execution of the engagement

- (1) Object of the engagement is the agreed service not a particular economic result. The engagement will be performed in accordance with the German Principles of Proper Professional Conduct (Grundsätze ordnungsmäßiger Berufsausübung). The German Public Auditor does not assume any management functions in connection with his services. The German Public Auditor is not responsible for the use or implementation of the results of his services. The German Public Auditor is entitled to make use of competent persons to conduct the engagement.
- (2) Except for assurance engagements (betriebswirtschaftliche Prüfungen), the consideration of foreign law requires an express agreement in writing (Textform).
- (3) If circumstances or the legal situation change subsequent to the release of the final professional statement, the German Public Auditor is not obligated to refer the engaging party to changes or any consequences resulting therefrom.

#### 3. The obligations of the engaging party to cooperate

- (1) The engaging party shall ensure that all documents and further information necessary for the performance of the engagement are provided to the German Public Auditor on a timely basis, and that he is informed of all events and circumstances that may be of significance to the performance of the engagement. This also applies to those documents and further information, events and dircumstances that first become known during the German Public Auditor's work. The engaging party will also designate suitable persons to provide information.
- (2) Upon the request of the German Public Auditor, the engaging party shall confirm the completeness of the documents and further information submitted as well as the explanations and statements provided in a statement as drafted by the German Public Auditor in a legally accepted written form (gesetzliche Schriftform) or any other form determined by the German Public Auditor.

#### 4. Ensuring independence

- (1) The engaging party shall refrain from anything that endangers the independence of the German Public Auditor's staff. This applies throughout the term of the engagement, and in particular to offers of employment or to assume an executive or non-executive role, and to offers to accept engagements on their own behalf.
- (2) Were the performance of the engagement to impair the independence of the German Public Auditor, of related firms, firms within his network, or such firms associated with him, to which the independence requirements apply in the same way as to the German Public Auditor in other engagement relationships, the German Public Auditor is entitled to terminate the engagement for good cause.

#### 5. Reporting and oral information

To the extent that the German Public Auditor is required to present results in a legally accepted written form (gesetalishe Schriftform) or in writing (Textform) as part of the work in executing the engagement, only that

presentation is authoritative. Drafts of such presentations are non-binding. Except as otherwise provided for by law or contractually a greed, oral statements, and explanations by the German Public Auditor are binding only when they are confirmed in writing (Textform). Statements and information of the German Public Auditor outside of the engagement are always non-binding.

## 6. Distribution of a German Public Auditor's professional state

- (1) The distribution to a third party of professional statements of the German Public Auditor (results of work or extracts of the results of work whether in draft or in a final version) or information about the German Public Auditor acting for the engaging party requires the German Public Auditor's consent be issued in writing (Textform), unless the engaging party is obligated to distribute or inform due to law or a regulatory requirement.
- (2) The use by the engaging party for promotional purposes of the German Public Auditor's professional statements and of information about the German Public Auditor acting for the engaging party is prohibited.

#### Deficiency rectification

- (1) In case there are any deficiencies, the engaging party is entitled to specific subsequent performance by the German Public Auditor. The engaging party may reduce the fees or cancel the contract for failure of such subsequent performance, for subsequent non-performance or unjustified refusal to perform subsequently, or for unconstionability or impossibility of subsequent performance. If the engagement was not commissioned by a consumer, the engaging party may only cancel the contract due to a deficiency if the service rendered is not relevant to him due to failure of subsequent performance, to unconscionability or impossibility of subsequent performance. No. 9 applies to the extent that further claims for damages exist.
- (2) The engaging party must assert a claim for subsequent performance (Nacherfüllung) in writing (Textform) without delay. Claims for subsequent performance pursuant to paragraph 1 not arising from an intentional act expire after one year subsequent to the commencement of the time limit under the statute of limitations.
- (3) Apparent deficiencies, such as clerical errors, arithmetical errors and defidencies associated with technicalities contained in a German Public Auditor's professional statement (long-form reports, expert opinions etc.) may be corrected also versus third parties by the German Public Auditor at any time. Misstatements which may call into question the results contained in a German Public Auditor's professional statement entitle the German Public Auditor to withdraw such statement also versus third parties. In such cases the German Public Auditor should first hear the enasoing party, if practicable.

#### 8. Confidentiality towards third parties, and data protection

- (1) Pursuant to the law (§ [Article] 323 Abs 1 [paragraph 1] HGB [German Commercial Code: Handelsgesetzbuch], § 43 WPO [German Law regulating the Profession of Wirtschaftsprüfer: Wirtschaftsprüferordnung], § 203 StGB [German Criminal Code: Strafgesetzbuch]) the German Public Auditor is obligated to maintain confidentiality regarding facts and droumstances confided to him or of which he becomes aware in the course of his professional work, unless the engaging party releases him from this confidentiality obligation.
- (2) When processing personal data, the German Public Auditor will observe national and European legal provisions on data protection.

#### 9. Liability

- For legally required services by German Public Auditors, in particular audits, the respective legal limitations of liability, in particular the limitation of liability pursuant to § 32 3 Abs. 2 HGB, apply.
- (2) Insofar neither a statutory limitation of flability is applicable, nor an individual contractual limitation of liability exists, daims for damages due to negligence arising out of the contractual relationship between the

50342

Lizerziert für/Licensed to: Mazars GmbH & Co. KG Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft | 4312025

engaging party and the German Public Auditor, except for damages resulting from injury to life, body or health as well as for damages that constitute a duty of replacement by a producer pursuant to § 1 ProdHattG (German Product Liability Act: Produkthaftungsgesetz), are limited to € 4 million pursuant to § 54 a Abs. 1 Number 2 WPO. This applies equally to claims against the German Public Auditor made by third parties arising from, or in connection with, the contractual relationship.

- (3) When multiple claimants assert a claim for damages arising from an existing contractual relationship with the German Public Auditor due to the German Public Auditor's negligent breach of duty, the maximum amount stipulated in paragraph 2 applies to the respective claims of all claimants collectively.
- (4) The maximum amount under paragraph 2 relates to an individual case of damages. An individual case of damages also exists in relation to a uniform damage arising from a number of breaches of duty. The individual case of damages encompasses all consequences from a breach of duty regardless of whether the damages occurred in one year or in a number of successive years. In this case, multiple acts or omissions based on the same source of error or on a source of error of an equivalent nature are deemed to be a single breach of duty if the matters in question are legally or economically connected to one another. In this event the claim against the German Public Auditor is limited to € 5 million.
- (5) A claim for damage's expires if a suit is not filed within six months subsequent to the written statement (Textform) of refusal of acceptance of the indemnity and the engaging party has been informed of this consequence. This does not apply to dialms for damages resulting from scienter, a culpable injury to life, body or health as well as for damages that constitute a liability for replacement by a producer pursuant to § 1 ProdHaftG. The right to invoke a plea of the statute of limitations remains un affected.
- (6) § 323 HGB remains unaffected by the rules in paragraphs 2 to 5.

#### 10. Supplementary provisions for audit engagements

(1) If the engaging party subsequently amends the financial statements or management report audited by a German Public Auditor and accompanied by an auditor's report (Bestätigungsvermerk), he may no longer use this auditor's report.

If the German Public Auditor has not issued an auditor's report, a reference to the audit conducted by the German Public Auditor in the management report or any other public reference is permitted only with the German Public Auditor's consent, issued in a legally accepted written form (gesetzliche Schriftform), and with a wording authorized by him.

- (2) If the German Public Auditor revokes the auditor's report, it may no longer be used. If the engaging party has already made use of the auditor's report, then upon the request of the German Public Auditor he must give notification of the revocation.
- (3) The engaging party has a right to five official copies of the report. Additional official copies will be charged separately.

#### 11. Supplementary provisions for assistance in tax matters

- (1) When advising on an individual tax issue as well as when providing ongoing tax advice, the German Public Auditor is entitled to use as a correct and complete basis the facts provided by the engaging party — especially numerical disclosures; this also applies to bookkeeping engagements. Nevertheless, he is obligated to indicate to the engaging party any material errors he has identified.
- (2) The tax advisory engagement does not encompass procedures required to observe deadlines, unless the German Public Auditor has explicitly accepted a corresponding engagement. In this case the engaging party must provide the German Public Auditor with all documents required to observe deadlines in particular tax assessments on such a timely basis that the German Public Auditor has an appropriate lead time.
- (3) Except as agreed otherwise in writing (Textform), ongoing tax advice encompasses the following work during the contract period:
- a) preparation and electronic transmission of annual tax returns, including financial statements for tax purposes in electronic format, for income tax, corporate tax and business tax, namely on the basis of the annual financial statements, and on other schedules and evidence documents required for the taxation, to be provided by the engaging party
- b) examination of tax assessments in relation to the taxes referred to in (a)
- negotiations with tax authorities in connection with the returns and assessments mentioned in (a) and (b)
- d) support in tax audits and evaluation of the results of tax audits with respect to the taxes referred to in (a)
- e) participation in petition or protest and appeal procedures with respect to the taxes mentioned in (a).

In the aforementioned tasks the German Public Auditor takes into account material published legal decisions and administrative interpretations.

- (4) If the German Public auditor receives a fixed fee for ongoing tax advice, the work mentioned under paragraph 3 (d) and (e) is to be remunerated separately, except as agreed otherwise in writing (Textform).
- (5) Insofar the German Public Auditor is also a German Tax Advisor and the German Tax Advisor Remuneration Regulation (Steuerberatungsvergütungsverordnung) is to be applied to calculate the remuneration, a greater or lesser remuneration than the legal default remuneration can be agreed in writing (Textform).
- (6) Work relating to special individual issues for income tax, corporate tax, business tax and valuation assessments for property units as well as all issues in relation to sales tax, payroll tax, other taxes and dues requires a separate engagement. This also applies to:
- a) work on non-recurring tax matters, e.g. in the field of estate tax and real estate sales tax:
- support and representation in proceedings before tax and administrative courts and in criminal tax matters;
- advisory work and work related to expert opinions in connection with changes in legal form and other re-organizations, capital increases and reductions, insolvency related business reorganizations, admission and referement of owners, sale of a business, squidations and the like, and
- d) support in complying with disclosure and documentation oblications.
- (7) To the extent that the preparation of the annual sales tax return is undertaken as additional work, this includes neither the review of any special accounting prerequisites nor the issue as to whether all potential sales tax allowances have been identified. No guarantee is given for the complete compliation of documents to daim the input tax are dit.

#### 12. Electronic communication

Communication between the German Public Auditor and the engaging party may be via e-mail. In the event that the engaging party does not wish to communicate via e-mail or sets special security requirements, such as the encryption of e-mails, the engaging party will inform the German Public Auditor in writing (Textform) accordingly.

#### 13. Remuneration

- (1) In addition to his daims for fees, the German Public Auditor is entitled to claim reimbursement of his expenses; sales tax will be bitled additionally. He may claim appropriate advances on remuneration and reimbursement of expenses and may make the delivery of his services dependent upon the complete satisfaction of his daims. Multiple engaging parties are jointly and severally liable.
- (2) If the engaging party is not a consumer, then a set-off against the German Public Auditor's claims for remuneration and reimbursement of expenses is admissible only for undisputed claims or claims determined to be legally binding.

#### 14. Dispute Settlement

The German Public Auditor is not prepared to participate in dispute settlement procedures before a consumer arbitration board (Verbraucherschlichtungsstelle) within the meaning of § 2 of the German Act on Consumer Dispute Settlements (Verbraucherstretbellegungsgesetz).

#### 15. Applicable law

The contract, the performance of the services and all claims resulting therefrom are exclusively governed by German law.

## 2.4. IMU Special Development Fund

Contributions to the IMU Special Development Fund.

2024

London Mathematical Society, UK

4,626.20 EUR

## 2.5. Third-Party Donations (monetary contributions)

2024

FIMU, US – Breakout Graduate Fellowship	72,777.06 EUR
FIMU, US – Volunteer Lecturer Program	4,617.23 EUR
Mathematical Society of Japan, Japan - CDC	911.41 EUR
Niels Henrik Abel Board, Norway – CDC	29,682.15 EUR
Simons Foundation, US – Donation Matching/GRAID	13,842.59 EUR
Simons Foundation, US – IDM Support	13,397.64 EUR
Simons Foundation, US – Reserve Fund	26,795.29 EUR
Simons Foundation, US – Research Fellowship	227,603.94 EUR
Program for Developing Countries (including 20%	
overhead)	
Swiss Mathematical Society, Switzerland – CDC	511.09 EUR

#### 2.6. IMU Bank Accounts

International Mathematical Union, Hausvogteiplatz 11A, D-10117 Berlin, Germany

Deutsche Bank

Otto-Suhr-Allee 6-16, D-10585 Berlin, Germany

BIC (SWIFT) code: DEUTDEDB110

EUR transfer to account No.:	USD transfer to account No.:	CHF transfer to account No.:
IBAN code:	IBAN code:	IBAN code:
DE851007084805113915	DE851007084805113915	DE581007084805113915
00	00	01

### 3. Commissions and Committees

## 3.1. International Commission on Mathematical Instruction (ICMI)

https://www.mathunion.org/icmi



#### **ACTIVITY AND FINANCIAL REPORT 2024**

#### A brief description of the 2024 ICMI activities

#### **Administration and Governance**

The ICMI Executive Committee (term in office 2021-2024) held one face-to-face meeting in Sydney (Australia) on July 5, July 6, 2024 and July 14, 2024 and one online meeting on November 29, 2024.

#### **ICMI EC Nominating Committee**

The ICMI EC Nominating Committee for the ICMI EC 2025-2028 finalized the slate in April 2024 and the slate was sent to the ICMI Country Representatives and Adhering Organizations via email in May 2024. The Chair of the Nominating Committee Abraham Arcavi presented the slate to the ICMI General Assembly on July 7, 2024 in Sydney, Australia.

#### ICMI General Assembly (ICMI GA) 2024

The ICMI General Assembly was held on July 7, 2024 in Sydney, Australia and the new ICMI EC 2025-2028 was elected.

#### **ICMI** Awards

The three 2024 ICMI Awardees were announced during the ICME-15 Opening Ceremony on July 8, 2024 in Sydney. The names of the awardees remained confidential until then. The 2024 ICMI Awardees are Kaye Stacy, Australia (Emma Castelnuovo Award), Ferdinando Arzarello, Italy (Felix Klein Award) and Ole Skovsmose, Denmark (Hans Freudenthal Award).

#### ICME-14 (2021), Shanghai

ICME-14 was held in a hybrid mode (combining online with face-to-face activities) from July

11-18, 2021. In 2024 the proceedings (2 volumes) were published and are now available open access.

### ICME-15 (2024), Sydney

ICME-15 was held successfully in Sydney, Australia July 8-14,2024. A total of 2322 delegates from nearly 100 different countries participated in the congress. Nearly 200 participants received some financial help from the Solidarity Fund Program.

#### ICME-16 (2028), Prague

In May 2023, ICMI EC decided to accept the bid for ICME-16 from the bidding committee from Prague, CZ. On July 6, 2024 the IPC was selected by the ICMI EC and all IPC members were invited. The first IPC meeting will be held September 15-19. 2025 on site in Prague, CZ.

#### **ICMI Studies**

The ICMI Study 25 volume "Teachers of Mathematics Working and Learning in Collaborative Groups" was published open access in June 2024.

ICMI Study 26 on Geometry was launched in 2022 by the ICMI EC. In February 2023 the first IPC meeting was held in Valencia, Spain. In April 2024 the Study Conference was held in Reims (France).

ICMI Study 27 on Mathematics Education and the Socio-Ecological was launched in 2023. The IPC met in 2023 and 2024 several times (online) and in Sydney in 2024 in- person to prepare the Discussion Document. The conference will be held in January 2025 in Manila (the Philippines).

#### **Outreach to Developing Countries**

Representatives from four CANPs participated in ICME-15 and in particular in a CANP Discussion Group (DG) to discuss the continuation of their activities.

#### **Klein Project**

The Klein Blog was moved from the US to the IMU Server in Germany. The new blog can be found here: <a href="https://blog.kleinproject.org/">https://blog.kleinproject.org/</a>.

#### ICMI AMOR (Awardees Multimedia Online Resources) Project

New sections have been added in 2024. During the ICMI EC meeting in Sydney it was decided to appoint an external Advisory or Scientific Board to oversee the time frames, content, and consistency of these AMOR units. The new ICMI EC will discuss this issue during their meeting in 2025.

## **Detailed description of the 2024 ICMI activities**

#### **Administration and Governance**

#### **ICMI Executive Committee**

The EC 2021- 2024 composition was as follows:

Position	Name	Country	
President	Frederick K. S. Leung	Hong Kong SAR, China	
Secretary-General	Jean-Luc Dorier	Switzerland	
Vice Presidents	Merrilyn Goos	Australia	
	Anjum Halai	Pakistan	
Members-at-large	Marta Civil	USA	
	Patricio Felmer	Chile	
	Mercy Kazima	Malawi	
	Núria Planas	Spain	
	Susanne Prediger	Germany	
Ex-officio members	Jill Adler, immediate past ICMI President	South Africa	
President of IMU	Hiraku Nakajima (2023-2024)	Japan	
	Carlos Kenig, 2021- 2022	USA	
Secretary of IMU	Christoph Sorger, (2023-2024)	France	
	Helge Holden, 2021- 2022	Norway	
IMU Liaison Person	Paolo Piccione	Brazil	

On July 5-6 and 14,2024 the ICMI EC met in Sydney (Australia). Most EC members were able to participate. The committee heard reports, discussed issues, made decisions and established item actions (where needed) on the following: ICMI-16 (2028, Prague), ICME-15 (2024, Sydney), ICMI Studies 26 and 27, outreach to developing countries and in particular CANP, IMU report, AMOR Project, ICMI Awards, Database Project, ICMI Country Representatives and Affiliate Organizations, International Day of Mathematics, CDC and the 2024 ICMI General Assembly.

One last one-hour ICMI EC meeting was held online on November 29, 2024. This was mostly a farewell meeting, but issues on ICME-16 and ICMI Study 27 were briefly discussed.

#### **ICMI EC Nominating Committee**

The ICMI EC Nominating Committee for the ICMI EC 2025-2028 started working in 2023. The committee was chaired by Abraham Arcavi. In May 2024 (two months prior to the ICMI GA), the slate was sent to the ICMI country representatives and IMU Adhering Organizations via email.

#### ICMI General Assembly (ICMI GA) 2024

The 2024 ICMI GA was held in Sydney, Australia on July 7, 2024. In order to facilitate the participation of as many CRs as possible, the GA was held in hybrid mode. 42 Country Representatives were on-site in Sydney and 16 Country Representatives participated online. Voting was done electronically, and the 2024–2028 EC was elected. The support from the IMU Secretariat was crucial to the success of the ICMI GA and the election of the new ICMI EC. Besides the ICMI Country Representatives, the participants in the GA were the ICMI EC, the chair of the ICMI Nominating Committee Abraham Arcavi, officers of the ICMI Affiliate Organizations, members of the slate for the ICMI EC 2025-2028, members of the IMU Secretariat and a member of the US National Academy of Sciences. The agenda of the ICMI GA 2024 can be found in the Appendix.

#### **ICMI Thematic Affiliate Organizations and Regional Affiliate Organizations**

ICMI's organizational outreach included in 2024: 8 multinational Regional Organizations and 9 International Thematic Organizations that have obtained affiliation with ICMI (<a href="https://www.mathunion.org/icmi/organization/affiliate-organizations">https://www.mathunion.org/icmi/organization/affiliate-organizations</a>). These organizations are independent and self-financed. They collaborate with ICMI on specific activities, such as the <a href="ICMI Studies">ICMI Studies</a>, CANP and conferences. The Affiliate Organizations presented their activity reports to the ICMI General Assembly in Sydney. In 2024 the International Study

Group for Etnomathematics, ISGEm, became a Thematic Affiliate Organization of ICMI.

President of the Executive Board of ISGEm is Milton Rosa (Brazil). This Group has been active since its inception in 1985 and focuses on the study of the cultural diversity of mathematical practices, and with the practical consideration of this knowledge in educational, developmental and social settings. ICME-15 had a topic study group on ethnomathematics, TSG 2.5: Ethnomathematics and First Nations / Indigenous people's mathematics and mathematics education.

#### **Awards**

In 2023 the ICMI Awardees were selected by the two ICMI Award Committees which were led by the following chairs: Helen Forgasz, Australia (ICMI Emma Castelnuovo Award Committee 2021-2024) and Alan H. Schoenfeld, USA (ICMI Felix Klein and Hans Freudenthal Awards Committee, 2021- 2024).

During the ICMI EC meeting in February 2023 it was decided that the names of the awardees are kept confidential until the ICME opening ceremony. Thus, before the Opening Ceremony of ICME-15, only the Awardees (who were asked to keep it secret), the two Award Committees, the ICMI President and those who were involved in the logistics (ICME-15 LOC chair and convenor, ICMI Administrative Manager) knew the final decisions. In 2023 the ICMI EC had also decided for practical reasons to change the place of production of the 3 ICMI award medals (without changing their design) from France to Germany. The 2024 ICMI Award medals and certificates were finalized in May 2024 and presented to the three Awardees Kaye Stacy (Emma Castelnuovo Award), Ferdinando Arzarello (Felix Klein Award) and Ole Skovsmose (Hans Freudenthal Award) on July 8, 2024 in Sydney, Australia. Each awardee was invited to present a lecture during ICME-15.

#### ICME-14 (2021)

Due to COVID-19, ICME-14, the 14<sup>th</sup> International Congress on Mathematical Education (ICME-14) originally scheduled for July 2020, was held in a hybrid mode at East China Normal

University in Shanghai, China, from July 11–18, 2021. The proceedings were published in 2024 and are now available open access.

#### ICME-15 (2024)

The 15th International Congress on Mathematical Education, ICME-15 took place in Sydney, Australia on July 7-14, 2024 and was held under the auspices of ICMI. The congress was a successful international event that will hopefully advance studies, interest and support for mathematics education all over the world. A total of 2322 delegates from around the world participated in the congress. ICME-15 had a wonderful and rich program: four Plenary Lectures, two Plenary Panels, 30 Discussion Groups, 85 Workshops and 3 Award Lectures were offered. The convenor of ICME-15 was Professor Kim Beswick, Head of the School of Education, University of New South Wales, Sydney. The Chair of the Local Organizing Committee was Will Morony, former CEO of the Australian Association of Mathematics Teachers. ICME-15 website is accessible here. Highlights and pictures can be found on the ICME-15 Facebook page. Here you can see the videos of all ICME-15 plenary activities: Plenary lectures, Plenary Panels, Awardee lectures, Opening and Closing Ceremonies.

The Solidarity Fund Selection Committee started working in November 2023 and had selected its grantees in February 2024. Applications to the ICME Solidarity Fund Program was subjected to two requirements 1) living and working in a developing country and 2) being accepted into the program of ICME-15 (IPC member, Invited lecture, co-chair, member or participant to TSG, poster session, etc.). 193 participants received an ICME-15 Solidarity Fund grant which allowed them to participate in ICME-15.

ICMI had independently supported the participation of 13 participants from developing countries who did not receive the Solidarity Fund Grant and had a role in the ICMI GA and/or ICME-15: Country Representatives, CANP representatives, an officer of an Affiliate Organization and ICME-15 IPC members with a grant (travel, registration fee and some also accommodation). The funds for this support came partially from an special IMU grant which was given to ICMI in 2023 and 2024 for CANP activities (4 CANP representatives were paid from this IMU special grant). Additionally, 11 Chinese ICME-15 participants selected on socioeconomical bases received a travel grant and registration fees from remaining funds from ICME-14.

#### ICME-16 (2028)

The ICMI EC decided in May 2023 to accept the bid for ICME-16 from the bidding committee from Praha, CZ chaired by Prof. Nad'a Vondrová (Charles University, Praha). The list of the IPC members for ICME-16 was finalized at the ICMI EC meeting in Sydney in July 2024 and the IPC members were invited. Moreover, the agreement between ICMI and the ICME-15 organizers was finalized and signed in November 2024. The first IPC meeting will be held September 15 – 19, 2025 on-site in Prague, CZ. During this meeting in 2025, the ICME-15 IPC and Local Organizers have to decide if the second IPC meeting will be held in person or online and choose a date for it. During the ICMI EC meeting in February 2023, the ICMI EC had decided to change in the agreement with the ICME host country the paragraph about the IPC meetings from "two meetings" to "at least one meeting should take place in the host country".

#### **ICMI Studies**

The Study Volume of **ICMI Study 25** on "Mathematics Teachers Working and Learning in Collaborative Groups" was published as open access in June 2024 and can be downloaded here: https://link.springer.com/book/10.1007/978-3-031-56488-8

**ICMI Study 26** on Geometry was launched in November 2021. The aim of the study is to review the current landscape of Geometry education and how it has changed in the past decades, especially since the last ICMI Study (Study 9) on "Perspectives on the Teaching of Geometry for the 21<sup>st</sup> Century". The co-chairs are Thomas Lowrie (Australia) and Angel Gutiérrez (Spain). The first IPC meeting was held February 23-25, 2023 in Valencia (Spain). The conference was held in Reims (France) April 22-26, 2024 and the Study was presented during the Special Session on ICMI Studies at ICME-15 and reported about the Study's progress.

**ICMI Study 27** on socio-ecological perspectives in mathematics education was launched in September 2023. The co-chairs (Professor Kate le Roux from the University of Cape Town in South Africa and Professor Alf Coles from the University of Bristol in the United Kingdom) and the IPC were selected in 2023. The IPC held several online meetings in 2023 and 2024. This was the first time that an ICMI Study did not have an in-person (several days long) first IPC meeting to prepare the Discussion Document and the Study Conference, but mainly met online. The Discussion Document was published in 2024.

The topic was presented during ICME-15 and the Study was presented during the Special Session on ICMI Studies at ICME-15 and the two co-chairs reported about the Study's progress. The ICMI Study 27 Conference will take place in January 2025 in the Philippines. The IPC has committed to creating a range of opportunities for contribution and participation, that will give visibility to the diversity of current work necessary for this topic. For example, all accepted contributions are published in the Study Conference Proceedings, even if none of the authors was able to attend the Study Conference. Yet, the Study Conference is not held in a hybrid mode but only in-person. However, the IPC is committed to considering relevant contributions in the production of the Study Volume, with authorship centered around conference participation.

#### **Outreach to Developing Countries**

#### Capacity and Networking Project (CANP)

In February 2023 the ICMI EC had invited 10 CANP leaders to a workshop in Bangkok. During the two-day meeting. Past obstacles and future plans were discussed. Based on the discussions, all five CANP networks submitted proposals to the ICMI EC for activities to be carried out between 2024 and 2026. The proposals were evaluated and approved in September 2023 and all five CANP networks will receive up to 4600 Euro (per CANP network) to carry out those activities until the end of 2025. In 2024 CANP leaders from four CANP networks participated in an ICME-15 working group and discussed further projects.

#### The Klein Project

The Klein blog which was hosted for many years in the USA (by William McCallum), has now been transferred to a blog server hosted by the IMU Secretariat. During 2024 the blog has been finalized and is now available at: <a href="https://blog.kleinproject.org/">https://blog.kleinproject.org/</a>. New vignettes and activities are expected for 2025.

#### **Outreach, Dissemination of Information and Archiving**

#### **ICMI Newsletter**

The 2021-2024 Editors were Jean-Luc Dorier, Merrilyn Goos and Lena Koch. Since 2022, four newsletters a year (March 15, June 15, September 15 and December 15) are published. All issues can be found here.

#### **ICMI** Website

The ICMI website <a href="https://www.mathunion.org/icmi">https://www.mathunion.org/icmi</a> is hosted by the IMU Secretariat and edited by Lena Koch, supported by Vanessa Chung as well as the ICMI Secretary General Jean-Luc Dorier. Occasional "bugs" are being fixed as they emerge during the use of the site. The website receives technical support from the IMU Technician Frank Klöppel. In 2024 several pages of the website were updated.

#### ICMI Facebook

The ICMI Facebook page was established in 2011 and has more than 7000 followers. The editors are Jaime Carvalho e Silva (former ICMI Secretary General) and Lena Koch. See <a href="https://www.facebook.com/icmi.math.edu/">https://www.facebook.com/icmi.math.edu/</a>

#### L'Enseignement Mathématique

Regular articles on ICMI were published in the journal <u>L'Enseignement Mathématique</u> (historically connected to ICMI). This is under the responsibility of Jean-Luc Dorier, ICMI SG.

# ICMI Column in the Newsletter of the European Mathematical Society (now EMS Magazine)

An ICMI Column is regularly published in the education sections of the ex-Newsletter, now Magazine of the European Mathematical Society (EMS). In 2024, the editor of the education section was Jason Cooper (Israel) and the ICMI Column is under the responsibility of Nùria Planas. ICMI EC member.

#### **ICMI Archive**

Preservation of ICMI historical documents is ongoing under the joint coordination of former ICMI Secretary General Bernard Hodgson and IMU archivist Birgit Seeliger. Bernard Hodgson has a regular column in the ICMI Newsletter in which he publishes interesting vignettes related to the history of ICMI. These vignettes are reproduced in L'*Enseignement Mathématique*.

#### **Open Access**

ICMI aims at providing open access to as many as possible ICMI publications and thematic studies. Currently proceedings of the symposium organized in the year 2000 on the occasion of the centennial of L'Enseignement Mathématique<sup>1</sup>, the first five ICMI Studies<sup>2</sup> (and the corresponding Discussion Documents), ICMI Bulletins, proceedings of various meetings and

<sup>&</sup>lt;sup>1</sup> https://www.unige.ch/math/EnsMath/EM-ICMI/welcome.html

<sup>&</sup>lt;sup>2</sup> https://www.mathunion.org/icmi/digital-library/icmi-studies/icmi-study-volumes

conferences, and other relevant documents, are available for perusal and free download on the ICMI Website. Since 2022, all ICME proceedings are published on the ICMI website.<sup>3</sup>

ICMI is also publishing all new ICMI Studies as open access (ICMI Studies 19, 21 and 22, 23, 24 and 25 are already available as open access). It was also decided by the 2021-2024 ICMI EC to publish as many as possible past ICMI Studies as open access. In 2024 ICMI Administrative Manager Lena Koch and IMU Secretariat staff member Vanessa Chung started to contact all authors of ICMI Study 20 and Study 18 (they all need to sign a consent form). The authors of ICMI Study 17 and 16 will be contacted in 2025. The process is very demanding and time consuming, thus it has been decided the next ICMI EC meeting (March 2025) should take a decision on how to follow on.

#### **AMOR (Awardees Multimedia Online Resources Project)**

This project, initiated and led by Jean-Luc Dorier, aims to create a unit for each ICMI awardees with various multimedia resources in about 10 modules with short videos and bibliographical resources. The project aims at building online resources which could constitutes a reference for research in mathematics education not only for researchers in the field, but also for educators, teachers, curriculum developers and policy makers and other agents in the field. In particular, the project might serve as a basis for a PhD training program and induction into mathematics education research. Currently there are units about the research from seven ICMI Awardees. Between 2021-2024 the project was supported by EC members at large **Núria Planas and Marta Civil. In 2024**, new units and videos were added (Ubiratan D'Ambrosio, Felix Klein Award 2003) and existing units were finalized (e.g Guy Brousseau, Felix Klein Award 2003). The website is accessible at: <a href="https://www.mathunion.org/icmi/awards/amor">https://www.mathunion.org/icmi/awards/amor</a>

During the ICMI EC meeting in Sydney (July 2024) it was decided to appoint an external Advisory or Scientific Board to oversee the time frames, content, and consistency of these AMOR units. The new ICMI EC will discuss this issue and take necessary steps during their meeting in 2025.

#### **Financial Summary**

ICMI receives an annual grant from the International Mathematical Union (IMU), which constitutes its main source of finance.

Another important (yet indirect) source of financial support for ICMI activities comes from academic institutions from all over the world that support their faculty members (including ICMI EC members) to attend ICMI activities and meetings and also organize the many ICMI activities (for example ICMI EC meetings, ICME and all related costs, ICMI General Assembly, ICMI Studies (IPC meetings and conferences), CANP activities, Klein Project activities). Without this support, ICMI could not initiate and carry out its many activities.

ICMI Administrative Manager and ICMI Secretary General prepare the annual budget and submit it to the ICMI EC for comments and approval. The funds are kept and transferred from the IMU Secretariat in Berlin.

The detailed financial report can be found in the Appendix to this report.

<sup>&</sup>lt;sup>3</sup> https://www.mathunion.org/icmi/conferences/icme/past-icmes

#### Conclusion

The ICMI EC would like to thank IMU and the IMU EC, the IMU Secretariat staff members and its host institution WIAS in Berlin (Germany), and all institutions who financially and administratively supported ICMI activities in 2024.

The ICMI EC would also like to highlight the work of all individuals who have been actively involved in ICMI activities. Without their support and involvement, ICMI activities and outreach events would not have been possible.

Jean-Luc Dorier, ICMI Secretary-General Lena Koch, ICMI Administrative Manager January 2024.

# Appendix

## **Financial Overview 2024**

INCOME ICMI 2024	Actual income and transfers 2024 ICMI Bank Account	Grants from 2024 to be reimbursed to ICMI in 2025
IMU Grant (annual)	67.452,00 €	
return of loan ICME-15	- €	- €
Support from IMU for CANP 2023 and 2024	2.000,00 €	18.000,00 €
Royalties ICMI Studies	- €	
Un-used funds ICMI Study 24 Conference	1.751,09 €	
Total:	71.203,09 €	<u>18.000,00 €</u>
EXPENDITURE ICMI 2024	Actual spending 2024	2024 Accruals to be paid in 2025/2026
1. ICMI Administrative Costs		
ICMI EC Meeting 2024	3.304,12 €	- €
ICMI EC Meeting 2025	5.718,74 €	12.000,00 €
President and Secretary Admin Cost		
Travel and other cost ICMI EC Members/ICMI Officers to ICMI related activities (excluding EC meetings) e.g. regional conferences	2.019,89 €	
Other Administrative Cost	0,00 €	
Total Expenditure ICMI Administrative cost including EC meetings:	11.042,75 €	12.000,00 €
2.Research and Publication		
ICMI Studies Editing language	2.000,00 €	
Open Access ICMI Study 26	0,00€	18.000,00€
Open Access ICMI Study 27		18.000,00€
ICMI Study 26 IPC Meeting Support	2.683,00 €	
Open Access ICMI Studies (past studies)	0,00€	60.000,00 €
2.7. Klein Project	0,00 €	- €
2.8. ICMI Study 27 Support	5.000,00 €	
Total Expenditure Research and Publication	9.683,00 €	96.000,00 €
3. ICME and GA 2024		
ICMI GA	4.179,67	- €

Travel cost EC members (IPC meetings and other ICME activities Meeting etc.)	0,00€	- €
Awardees and Chairs of ICMI Committees (awards) (travel/accommodation)	2.200,00 €	- €
ICME 16 Congress Subvention	0,00€	10.000,00€
Grants for ICMI GA 2024 participants	21.306,36 €	750,00€
Grant for CANP representatives for ICME-15	14.570,78€ (will be reimbursed from IMU grant)	- €
ICME related admin and additional cost (IT, Voting System etc.)	0,00€	250,00€
ICMI Dinner	11.037,02 €	- €
Awards and Prizes (Medal/Certificate)	10.511,66 €	600,00€
ICMI Studies launch	66,32 €	- €
ICMI Booth during ICME	967,25 €	- €
Total Expenditure ICME and GA:	64.839,06 €	11.600,00 €
Developing Countries		
CANP 1-5 Grants 2023 approved	3.429,22 €  (will be reimbursed from IMU grant)	17.570,78 €
Reimbursement to ICME-14 for online registration for developing countries participants	13.273,30 €	2.500,00€
Total Expenditure Developing Countries:	16.702,52 €	20.070,78 €
Outreach		
Public Relations including flyer and poster also digitally possible	0,00€	- €
Website, Media, Newsletter	0,00€	- €
Archive	365,00 €	- €
Amor	150,00 €	- €
Total Expenditure Outreach:	515,00 €	- €
6. Regional Conferences/AO		
EMF Conference Support Grant	4.250,00 €	750,00 €
Total Regional Conference	4.250,00 €	750,00 €
7. Further Costs		
Bank Charges	1.289,72 €	
Other unforeseen cost	0,00€	

Total Further Costs:	1.289,72 €	
Total 2024	Transfers 2024	2024 Accruals to be paid in 2025/2026
Total spending ICMI 2024 (including 18.000 Euro which will be reimbursed to ICMI from IMU grant)	108.322,05 €	140.420,78 €

#### **Summary:**

Opening balance sheet	
ICMI Bank Account:	
1.1.2024	250.836,81€
Closing Balance Sheet	
Status of the ICMI bank	
account as of 31.12.2024	213.717,85 €
ICMI Transfers in 2024	108.322,05 €
ICMI Grants/ accruals to be	
transferred in 2025	140.420,78 €
Savings from previous years	
(including IMU CANP 2023/2024 Grant reimbursement)	91.297,07 €

#### **IMU Special Grant to CANP**

In 2023 and 2024 ICMI received a special grant to support CANP activities. (2023: 10,000 € and 2024: 10,000 €), the grant helped supporting the following CANP activities:

#### **CANP 4 (Eastern Africa)**

The group received a grant of 2,000 € to support regional activities in 2024-2026. They plan to use the funds to organize committee planning meetings and to support research activities (Preparing, distributing, collecting and compiling survey about mathematics teacher education in Rwanda, Kenia, Uganda and Tanzania). The funds were transferred in 2023 to Uganda and in 2024 reimbursed to ICMI from the IMU grant.

#### **CANP 2-5 Discussion Group during ICME-15**

To enable CANPs to become part of the global exchanges in mathematics education, CANP representatives have participated in global forums on mathematics education. In ICME-15 held in Sydney in July 2024, a Discussion Group entitled 'Advancing mathematics education through networks outreach and inclusion: Case of CANPs' was organized, responding to the ICME theme on inclusion, poverty, and inequality in mathematics education. It provided a forum for exchange between several marginalized and under-represented countries, as CANP representatives brought in many ideas about advancing mathematics education in their specific contexts. This participation ensured a two-way interaction; bottom-up since local insights being shared from hitherto marginalized, under-represented and under-researched

areas and top-down while sharing of information where global developments in the field were shared with local communities from across the world.

Four CANP representatives received financial support (flight cost, partially accommodation and registration fees) to participate in the CANP Discussion Group during ICME-15 and other ICME-15 activities.

- Alina Dorimana, Rwanda, (CANP 4)
- Nelly Amatista Leon de Morales, Venezuela, (CANP 2)
- Jorge Daniel Mello, Paraguay, (CANP 5)
- Ana Paola Castillo Domenech, Ecuador, (CANP 5)

## **CANP 3 PME and Discussion Group during ICME-15**

The CANP 3 group used the funds to cover the registration cost of 24 local participants to PME Regional Conference 2023 and the ICME-15 registration fees for

- Nisakorn Boonsena, Thailand, (CANP 3)
- Phailath Sythong, Laos, (CANP 3)

# Agenda - ICMI General Assembly 2024

## Version June 20, 2024

O9:00-09:05   Welcome and Opening	08:30-09:00	Registration onsite	
Frederick Leung   Frederick Leung   O9:05-09:10   Agenda Adoption and call for further issues for discussion in the afternoon session   ICMI Secretary-General Jean-Luc Dorier   O9:10-09:15   Minutes of the GA 2020 and Matters Arising   ICMI Secretary-General Jean-Luc Dorier   O9:15-09:25   Election of the 2025-2028 ICMI EC Stage 1   ICMI President Frederick Leung   O9:25-10:00   Presentation of Slate and Presentation of the Candidates   Candidates   Candidates   ICMI Secretary-General Jean-Luc Dorier   IMU Manager Scott Jung   IO:15-16:45   ONLINE VOTING for Country Representatives participating remotely   IO:15-10:30   Voting slot for present Country Representatives   ICMI Secretary-General Jean-Luc Dorier   IMU Manager Scott Jung   ICMI Secretary-General Jean-Luc Dorier   ICMI Secretary-General Jean-L	09:00-09:05	Welcome and Opening	IMU and ICMI Presidents
for discussion in the afternoon session  Jean-Luc Dorier  09:10-09:15  Minutes of the GA 2020 and Matters Arising  Dean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  ICMI President Frederick Leung  Presentation of Slate and Presentation of the Candidates  Presentations on the voting process  ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  IMU Manager Scott Jung  ONLINE VOTING for Country Representatives participating remotely  Voting slot for present Country Representatives  10:30-11:00  Coffee/Tea break  11:00-11:40  ICMIS Organizational structure, Quadriennial report and discussion  ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  12:00-12:30  Short discussion on the reports of Regional AOs  ICMI Secretary-General Jean-Luc Dorier			_
O9:10-09:15   Minutes of the GA 2020 and Matters Arising   ICMI Secretary-General Jean-Luc Dorier	09:05-09:10		ICMI Secretary-General
Jean-Luc Dorier  109:15-09:25 Election of the 2025-2028 ICMI EC Stage 1 ICMI President Frederick Leung  109:25-10:00 Presentation of Slate and Presentation of the Candidates  10:00-10:15 Explanations on the voting process ICMI Secretary-General Jean-Luc Dorier IMU Manager Scott Jung  10:15-16:45 ONLINE VOTING for Country Representatives participating remotely  10:15-10:30 Voting slot for present Country Representatives  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIS Organizational structure, Quadriennial report and discussion  11:40-12:00 Videos of the 8 Regional Affiliate Organizations  12:00-12:30 Short discussion on the reports of Regional AOS  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  14:00-14:30 Short discussion on the reports of Thematic AOS  14:30-16:30 Working groups  ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier		for discussion in the afternoon session	Jean-Luc Dorier
D9:15-09:25   Election of the 2025-2028 ICMI EC Stage 1   ICMI President Frederick Leung	09:10-09:15	Minutes of the GA 2020 and Matters Arising	ICMI Secretary-General
99:25-10:00 Presentation of Slate and Presentation of the Candidates  10:00-10:15 Explanations on the voting process  10:15-16:45 Explanations on the voting process  10:15-16:45 ONLINE VOTING for Country Representatives participating remotely  10:15-10:30 Voting slot for present Country Representatives participating remotely  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIs Organizational structure, Quadriennial report and discussion  11:40-12:00 Videos of the 8 Regional Affiliate Organizations  12:00-12:30 Short discussion on the reports of Regional AOs ICMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  14:00-14:30 Short discussion on the reports of Thematic AOs ICMI Secretary-General Jean-Luc Dorier			Jean-Luc Dorier
Candidates - Abraham Arcavi  10:00-10:15 Explanations on the voting process ICMI Secretary-General Jean-Luc Dorier IMU Manager Scott Jung  10:15-16:45 ONLINE VOTING for Country Representatives participating remotely  10:30-11:00 Voting slot for present Country Representatives  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIs Organizational structure, Quadriennial report and discussion ICMI Secretary-General Jean-Luc Dorier  11:40-12:00 Videos of the 8 Regional Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  12:00-12:30 Short discussion on the reports of Regional AO/ ICMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC	09:15-09:25	Election of the 2025-2028 ICMI EC Stage 1	
Jean-Luc Dorier IMU Manager Scott Jung  10:15-16:45 ONLINE VOTING for Country Representatives participating remotely  10:15-10:30 Voting slot for present Country Representatives  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIs Organizational structure, Quadriennial report and discussion  11:40-12:00 Videos of the 8 Regional Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  12:00-12:30 Short discussion on the reports of Regional AOs AO/ ICMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AOs ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC	09:25-10:00		
10:15-16:45 ONLINE VOTING for Country Representatives participating remotely  10:15-10:30 Voting slot for present Country Representatives  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIs Organizational structure, Quadriennial report and discussion  11:40-12:00 Videos of the 8 Regional Affiliate Organizations  12:00-12:30 Short discussion on the reports of Regional AOs  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  12:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups  ICMI EC	10:00-10:15	Explanations on the voting process	
Representatives participating remotely  10:15-10:30 Voting slot for present Country Representatives  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIs Organizational structure, Quadriennial report and discussion IcMI Secretary-General Jean-Luc Dorier  11:40-12:00 Videos of the 8 Regional Affiliate Organizations IcMI Secretary-General Jean-Luc Dorier  12:00-12:30 Short discussion on the reports of Regional AOs IcMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations IcMI Secretary-General Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC			IMU Manager Scott Jung
Representatives  10:30-11:00 Coffee/Tea break  11:00-11:40 ICMIs Organizational structure, Quadriennial report and discussion  Videos of the 8 Regional Affiliate Organizations  Short discussion on the reports of Regional Jean-Luc Dorier  12:00-12:30 Short discussion on the reports of Regional AOs  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  ICMI Secretary-General Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups	10:15-16:45		
11:00-11:40  ICMIs Organizational structure, Quadriennial report and discussion  ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier  I2:30-13:30  Lunch  ICMI Secretary-General Jean-Luc Dorier	10:15-10:30		
report and discussion  Jean-Luc Dorier  11:40-12:00  Videos of the 8 Regional Affiliate Organizations  Short discussion on the reports of Regional AOs  AOs  AO/ ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier  12:30-13:30  Lunch  Group picture of all participants of the ICMI General Assembly  Video of the 8 Thematic Affiliate Organizations  ICMI Secretary-General Jean-Luc Dorier  14:00-14:30  Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30  Working groups  ICMI EC	10:30-11:00	Coffee/Tea break	
11:40-12:00 Videos of the 8 Regional Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  12:00-12:30 Short discussion on the reports of Regional AOs ICMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AOs ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC	11:00-11:40		ICMI Secretary-General
Organizations  Jean-Luc Dorier  12:00-12:30 Short discussion on the reports of Regional AOs AO/ ICMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations ICMI Secretary-General Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC		report and discussion	Jean-Luc Dorier
12:00-12:30 Short discussion on the reports of Regional AO/ ICMI Secretary-General Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations Jean-Luc Dorier  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC	11:40-12:00	Videos of the 8 Regional Affiliate	ICMI Secretary-General
AOs Jean-Luc Dorier  12:30-13:30 Lunch  13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups  ICMI EC		Organizations	Jean-Luc Dorier
13:30-13:40 Group picture of all participants of the ICMI General Assembly  13:40-14:00 Video of the 8 Thematic Affiliate Organizations  14:00-14:30 Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30 Working groups  ICMI EC	12:00-12:30		AO/ ICMI Secretary-General Jean-Luc Dorier
General Assembly  13:40-14:00  Video of the 8 Thematic Affiliate Organizations  Short discussion on the reports of Thematic AOS  Working groups  ICMI Secretary-General Jean-Luc Dorier  AO/ ICMI Secretary-General Jean-Luc Dorier	12:30-13:30	Lunch	
Organizations  14:00-14:30  Short discussion on the reports of Thematic AO/ ICMI Secretary-General Jean-Luc Dorier  14:30-16:30  Working groups  ICMI EC	13:30-13:40		
AOs Jean-Luc Dorier  14:30-16:30 Working groups ICMI EC	13:40-14:00		
	14:00-14:30		
16:30-17:00 Coffee/Tea break	14:30-16:30	Working groups	ICMI EC
	16:30-17:00	Coffee/Tea break	

17:00-17:15	Results vote, in case of a tie, new vote for the ICMI EC 2025-2028 members-at-large with the tie	Nominating Committee Chair Abraham Arcavi
17:15-17:45	New vote only for the ICMI EC 2025-2028 members-at-large with the tie	ICMI CR (in person and remotely)
17:45-18:00	Final Result of the ICMI EC election	Nominating Committee Chair Abraham Arcavi
18:00-18:10	Closing words	ICMI President

#### 3.2. Commission for Developing Countries (CDC)

https://www.mathunion.org/cdc

# Report on the Activities of the IMU Commission for Developing Countries (CDC) January 1, 2024 – December 31, 2024

The CDC members in the term 2023-2026 are:

- CDC President: Andrea Solotar (Argentina)
- CDC Secretary for Policy: Ludovic Rifford (France)
- CDC Secretary for Grants: Jose Maria P. Balmaceda (Philippines)
- CDC African member: Mahouton Norbert Hounkonnou (Benin)
- CDC Asian member: Le Tuan Hoa (Vietnam)
- CDC Latin American member: Mariel Saez (Chile)
- CDC member appointed by the IMU Executive Committee: Dayue Chen (China)
- CDC member appointed by the IMU Executive Committee: K. N. Raghavan (India)
- CDC member appointed by the ICMI Executive Committee: Anjum Halai (Pakistan) (Until 31.12.2024)
- IMU President (2023-2026) and Ex-officio CDC Member: Hiraku Nakajima (Japan)

The CDC liaison of IMU EC is: Tamar Ziegler (Israel).

#### **Definition of Developing Countries**

The definition of developing or less affluent countries to be used by IMU has been revised by the IMU Executive Committee in November 2023, based on a proposal by the CDC.

For the period 2024-2026 CDC refers to data of the World Bank which classifies:

- low-income economies as those who have a GNI per capita, calculated using the World Bank Atlas method, of USD 1,135 or less in 2022;
- lower middle–income economies are those with a GNI per capita between USD 1,136 and USD 4,465
- upper middle–income economies are those with a GNI per capita between USD 4,466 and USD 13,845;
- high-income economies are those with a GNI per capita of USD 13,846 or more.

The data about research and development spending is extracted from <a href="https://data.worldbank.org/indicator/GB.XPD.RSDV.GD.ZS">https://data.worldbank.org/indicator/GB.XPD.RSDV.GD.ZS</a>

Additionally, a complementary group of countries has been added which are considered by the World Bank as developed economies, but whose GNI per capita is currently below USD 20,000, and whose research and development spending is below 1 per cent of their PIB, and which do not belong to a group of countries or a political and economic alliance such as the European Union.

As in previous terms, the following subdivision into priority groups has been established for the CDC, for various purposes:

Priority 1 (Low income): GNI per capita below USD 1,136.

- Priority 2 (Lower-middle income): GNI per capita in the interval from USD 1,136 to USD 4.465.
- Priority 3 (Upper-middle income-low): GNI per capita in the interval from USD 4,466 to USD 7,585.
- Priority 4 (Upper-middle income-medium): GNI per capita in the interval from USD 7,586 to USD 10,706.
- Priority 5 (Upper-middle income-high): GNI per capita in the interval from USD 10,707 to USD 13,845.
- Priority 6 (GNI per capita is between USD 13,845 and USD 20,000, but research and development spending is below 1 per cent of the country's PIB, and the country does not belong to a group of countries or a political and economic alliance such as the European Union).

At any moment, IMU member countries can ask the IMU to consider inclusion/exclusion as a developing or less affluent country. The application should be motivated and well-documented. On the basis of the evidence presented by the country, the CDC would then make a recommendation to the IMU EC for a case-by-case decision. If a country's World Bank status as a developing or less affluent country has changed between the data used to decide on the status and the time of the request, this information should be included as part of the evidence.

All countries classified as "developing or less affluent countries" can be found on the IMU CDC Website on Definition on Developing Countries.

#### **CDC Administrative Processes**

The applications to the various CDC grant programs are evaluated and selected by CDC and additional committees including members external to CDC.

The CDC and all CDC related activities are supported by staff members from the IMU Secretariat in Berlin, Germany who manage most of the administration of the CDC in addition to the many volunteers who support CDC activities worldwide.

Since their launch the two programs "IMU Breakout Graduate Fellowships (BGF)" and "Graduate Research Assistantships in Developing Countries (GRAID)" have been administrated outside the IMU Secretariat. As of 2025 these two programs will be transferred to and administered by the IMU Secretariat.

#### **CDC Principles**

During 2024 the Commission for Developing Countries (CDC) has continued to use the funds it receives from the International Mathematical Union (IMU) and various donors to support mathematics research and advanced mathematical teaching in developing countries, guided by the basic principles incorporated into its original charge:

- I. Work with and support local mathematical leadership in developing countries,
- II. Leverage resources through partnering and networking with other organizations with goals compatible with the CDC mandate,
- III. Set clear norms of quality, transparency and accountability.

Guided by these principles, the CDC allocated its funds in 2024 to the following programs:

## **Overview of CDC Programs in 2024**

#### **Conferences and Projects**

#### A) Conference Support Program (CSP)

The Conference Support Program gives partial support to conferences organized in developing and economically disadvantaged countries. The maximum amount that is awarded is EUR 4,000.

The funds are for academic use (travel or living expenses) only of invited speakers or participants coming from developing countries. The CDC Grant Selection Committee (GSC) selects the grant recipients; it is an eight- member committee, chosen and supervised by the CDC and chaired by the CDC Secretary for Grants Selection Jose Maria P. Balmaceda. Five of its eight members are not CDC members.

#### B) Project Support Program (PSP)

Under the Project Support Program, the CDC supports capacity building projects and programs in mathematics and mathematics education, be they international, regional or local initiatives in developing countries. The CDC members evaluate and select the grant recipients.

In 2024 the program remained closed.

#### **Lecturing and Mentoring**

#### C) Volunteer Lecturer Program (VLP)

The purpose of the program is to provide funding for intensive courses (duration 10 working days- 4 weeks) given in universities in the developing world by external lecturers.

The following courses can be supported:

- (A) Courses that are part of a regular mathematics undergraduate or master degree program at the hosting university on topics where the applicant university has a lack of expertise.
- (B) Courses at doctoral level which can be beneficial to PhD students and researchers of one or several research institutions.

The maximum amount that is awarded for each visit is EUR 4,400. This program is supported by the American Mathematical Society (USA) and the Niels Henrik Abel Board (Norway). A six-member CDC sub-committee, chaired by the CDC Secretary for Policy, Ludovic Rifford evaluates the program.

#### **Individual Research Visits**

#### D) Abel Visiting Scholar Program (AVSP)

The Niels Henrik Abel Board gives an annual grant of USD 15,000 to support mathematicians professionally based in developing countries to visit an international research collaborator for a period of one month. The maximum amount that is awarded for each visit is USD 5,000 and the period is extendable for up to three months in the case of matching support from the host institution. The program is designed for postdoctoral mathematicians in the early stages of their professional careers; candidates must be under 35 years of age.

The Abel Visiting Scholar Program Selection Committee selects the grant recipients. The committee consists of three members: the chair and one of the members are appointed by the IMU Executive Committee and one member is chosen by CDC.

### E) Individual Travel Support Program (ITSP)

This program supports travel costs for research visits (minimum stay is four weeks) by mathematicians based in a developing country. The CDC Grant Selection Committee (GSC) selects the grant recipients. This program concluded in 2024. The remaining grantees finalized their research visits in 2024.

#### F) IMU Simons Research Fellowship Program for Developing Countries

In 2024 CDC received a generous grant from the Simons Foundation (USA) which finances the IMU-Simons Research Fellowship Program for Developing Countries from 2024-2027. The program is tailored for mathematicians from developing countries to travel to a mathematical institution for collaborative research for up to three months. The research visit has to be tied to a specific research project and a collaborating institute. The CDC Grant Selection Committee (GSC) selects the grant recipients.

The program operates on an annual cycle, beginning in April and concluding the following April, with an annual budget of USD 200,000 distributed to grantees during this period.

#### **Graduate Support**

#### **G) IMU Breakout Graduate Fellowship Program**

In 2016 IMU had launched a graduate program funded by the generous donations of most winners of the Breakthrough Prizes in Mathematics. This fellowship program aims to support postgraduate students from developing countries and studying in a developing country, leading to a PhD degree in the mathematical sciences. The program was developed with the assistance of the Friends of IMU (FIMU). The Breakout Selection Committee, that consists of five members and that is chaired by the CDC Secretary for Policy, evaluates the applications. From 2016-2024 this program was administered by the London Mathematical Society (LMS), supported by the IMU Secretariat. Starting from 2025 the program will be managed by the IMU Secretariat.

#### H) Graduate Research Assistantships in Developing Countries (GRAID) Program

The Program was launched in 2017 and provides research assistantships to graduate – PhD and Master – students of emerging research groups working in a developing country listed in Priority 1 or 2 of the IMU CDC Definition of Developing Countries. It provides modest support for emerging research groups, making it possible for them to fund their most talented students as graduate research assistants (PhD or Master Students), thereby fostering the growth of a mathematics community. The GRAID Program is funded by voluntary donations from mathematicians or mathematical institutions worldwide. Applications are evaluated and recipients selected by the GRAID Selection Committee that consists of six members, three of them are not CDC members. The Committee is chaired by a CDC member and its Secretary is proposed by the American Mathematical Society (AMS).

From 2017-2024 this program was administrated by the GRAID Selection Committee, supported by the AMS, as of 2025 the program will be managed by the IMU Secretariat.

#### Other activities and outreach

#### **Library Assistance Scheme**

The IMU-CDC Library Assistance Scheme matches donors of mathematical materials with libraries in universities/research institutions in developing countries where there is a need for mathematical research literature. CDC offers limited financial support for shipment costs for individual scientists or institutions wishing to donate books in the mathematical sciences to libraries in developing countries. The shipments are organized by the donors of the mathematical materials.

#### **CDC** Website

The CDC website is hosted by the IMU Secretariat, supported by WIAS Berlin and mainly maintained by IMU Staff. All updates, programs and information about all CDC programs can be found on the CDC website: <a href="https://www.mathunion.org/cdc">www.mathunion.org/cdc</a>

#### **CDC Grants Management**

In 2024 the IMU Secretariat introduced and implemented a new grant management software (<u>GoodGrants</u>) for all CDC grant program which allows the management of the entire grantmaking workflow, from online applications, reviewing, payments to post-award reporting.

#### CDC Activities 2024 in Detail

#### Conferences and Projects

#### A) Conference Support Program

During 2024 a total of 40 conferences and research schools taking place in the following countries were selected by the Grant Selection Committee to receive a conference grant award. Below is the list of conferences who were selected in 2024. A total of 107 conference applications were evaluated. In 2024 the total budget available for the program was 82,606.10 Euro.

Country	Conference	Amount awarded
	Total	82,600 €
Argentina	Quantum 24 Colloquium on Algebras and Representations	€ 2,000.00
Argentina	CIMPA School: K-theory and operator algebras	€ 3,000.00
Brazil	Latin American School of Algebraic Geom	€ 1,500.00
Brazil	VII Congreso Latinoamericano y del Caribe de Matemática	€ 2,500.00

Brazil	Hyperbolic manifolds, their submanifolds and fundamental groups	€ 3,000.00
Brazil	CIMPA School: Bridgeland Stability and Applications	€ 1,500.00
Burkina Faso	CIMPA School Théorie des représentations et ses applications à la physique (TRAP)	€ 1,500.00
Burundi	African Mathematical School (CIMPA/ICTP)	€ 2,000.00
Burundi	CIMPA School 2024 Burundi (PDEs)	€ 1,500.00
Burundi	Women In Sage Burundi	€ 2,000.00
Chad	Fluid Flow and Environmental Modeling (CIMPA)	€ 1,500.00
Chile	Arithmetic and p-adic geometry in Chile	€ 2,500.00
Colombia	Applied Algebraic Geometry in Colombia (EMALCA)	€ 2,000.00
Colombia	ICMAM Latin America 2024	€ 1,500.00
Colombia	Analysis and Convex Geometry Week at UniAndes	€ 2,700.00
Cuba	EMALCA-La Habana 2024	€ 2,000.00
Gabon	Gabonese Workshop in Arithmetic	€ 2,500.00
Honduras	EMALCA Honduras 2025	€ 2,700.00
India	International Conference on Lie algebra and Number Theory	€ 1,500.00
India	New Trends in Teichmüller Theory	€ 2,500.00
Indonesia	International Conference on Graph Theory and Information Security VI 2024	€ 1,500.00
Indonesia	Arithmetic in Action: Number Theory and its Applications to Cryptography and Coding Theory	€ 1,500.00
Ivory Coast	AFRIMath 2025	€ 2,000.00
Mexico	Congress on Complex Geom, Sing and Dynamics	€ 1,500.00
Mexico	Number Theory in the Americas II	€ 2,500.00
Philippines	PDEs2025: Recent Developments in Theory and Applications	€ 2,700.00
Rwanda	Training School in Algebraic Geom and Arith CIMPA)	€ 2,000.00
Rwanda	2025 ICTP-EAUMP Summer School on Real and Harmonic Analysis	€ 1,500.00
Serbia	XXII Geometrical Seminar	€ 2,000.00
Serbia	Introduction to Number Theory and Algebraic Curves	€ 2,000.00
South Africa	CIMPA School on Mathematical and Statistical modeling in Oncology	€ 2,500.00
South Africa	Enumerative Combinatorics with Application to Computer Science	€ 3,000.00
Tunisia	Mathematical Modeling, solutions to health challenges and environmental	€ 1,500.00
Uganda	African Women in Algebra Workshop	€ 2,000.00
Uganda	Effective Algebra and the LMFDB	€ 2,500.00

Ukraine	Random matrices, random analytic functions, and non-linear PDEs	€ 3,000.00
Uzbekistan	Evolution equations on low-dimensional domains: Dynamical systems, solitons and quantum transport	€ 2,000.00
Uzbekistan	Modern trends in non-associative algebras	€ 1,500.00
Vietnam	Applied Number Theory (CIMPA)	€ 1,500.00
Vietnam	Topics in Arithmetic Algebraic Geometry	€ 2,000.00

In 2024, a total of Euro 63,400 was transferred for conferences selected in 2024. The remaining Euro 19,200 that was awarded to conferences in 2024 will be disbursed in 2025.

One conference that awarded in 2023 has been postponed to 2025. It has not yet received the funding and will receive it in 2025 (Euro 2,000) before the start of the activity.

1,109.57 Euro was returned as unspent funds and Euro 6.10 was left over from the 2024 budget. This total amount of Euro 1,115.70 will be used for conferences in 2025.

#### B) Project Support Program (PSP)

In 2024, this program has not opened a call for applications.

#### **Lecturing and Mentoring**

#### C) Volunteer Lecturer Program (VLP)

In 2024 a total of 18 courses were evaluated by the selection committee and 14 courses were awarded a grant for courses to be held in 2024 and 2025.

For courses selected in 2024 the total amount of Euro 11,225.85 were transferred in 2024. The remaining Euro 4,440 that was awarded to VLP courses in 2024 will be disbursed in 2025.

The last application deadline (December 15, 2024) was postponed to January 2025 and the grants will be selected by mid- February 2025.

In 2024 the total budget available for the program was Euro 31.971.57. Unspent funds will be transferred to the VLP 2025 budget.

#### VLP Courses selected in 2024:

Host Country	Host Institution	Name of Lecturer	Home Country of Lecturer	Name of Course and Year	Amount Awarded in 2024	Amount transferred in 2024
Algeria	National Higher School of Mathematics	Sascha Troscheit	Sweden	Advanced probability, 2024	€407.80	€407.80

Algeria	National Higher School of Mathematics	Douglas Coates	Brazil	Probability, 2024	€1,542.00	€ 1,542.00
Algeria	National Higher School of Mathematics	Gaetan Borot	Germany	Riemanian geometry 2025	€ 500.00	€ 500.00
Algeria	National Higher School of Mathematics	Alberto Abbondandol o	Germany	Advanced partial differential equations 2025	€ 450.00	€ 450.00
Algeria	National Higher School of Mathematics	Barbara Nelli	Italy	Riemanian geometry in 2025.	€ 500.00	€ 500,00
Algeria	National Higher School of Mathematics	Zeghib Abdelghani	France	Algebraic topology in 2025	€ 300.00	0
Algeria	National Higher School of Mathematics	Yacine Chitour	France	Advanced partial differential equations 2025	€ 500.00	0
Iran:	Institute for Research in Fundamental Sciences-Isfahan Branch (IPM- Isfahan), Department School of Mathematics	Hiroshi Yamauchi	Japan	Abstract Algebra: Vertex Operator Algebra/Qu antum Vertex Algebra 2024	€1,161.00	€ 1,161.00
Madaga s-car	University of Antananarivo, Département de Mathématiques et d'Informatique	Tovohery Hajatiana RANDRIANA RISOA	Sweden	Algebraic Coding Theory 2024	€2,300,00	€2,300,00
Namibia	University of Namibia	Xabier Martinez Garcia	Spain	Computing, Mathematic aland Statistical Sciences 2025	€1500	€1160
Pakistan	COMSATS	Volkmar Welker	Germany	Combinator ics 2025	€1,900.00	0
Pakistan	COMSATS	Abderrahim Hantoute	Spain	Simplicial Complexes in Combinator ics 2025.	€1,500.00	€1,500.00

Pakistan	Syed Babar Ali School of Sciences & Engineering Lahore University of Management Sciences (LUMS) (Department of Mathematics)	Daniele Angella	Italy	Topology 2025	€1,530.00	€770.00
Pakistan	Syed Babar Ali School of Sciences & Engineering Lahore University of Management Sciences (LUMS) (Department of Mathematics)	Charlene Kalle	Netherland s	She will teach a course in February 2025 in Real Analysis	€1,485.00	€885.00

#### Further Details about the 2024 courses:

#### Algeria: National Higher School of Mathematics

The supported courses are part of an International Mathematics Master (IMM). The IMM is an initiative of the Abdu Salam International Centre for Theoretical Physics (ICTP) for promoting high quality teaching of advanced mathematics in the whole world. The IMM consists of a two year Master program which is taught by teams of international visiting faculty in collaboration with local faculty (with whom research collaborations are also explored).

# Madagascar: University of Antananarivo, Département de Mathématiques et d'Informatique

The course is part of a double Master Degree in Mathematics and Computer Science. The program started in February 2023 with 20 students. In order to ensure that students in the Double Master degree program receive the best possible education, the department has reached out to former faculty members who now reside abroad to provide their expertise as volunteer lecturers. The lecturer already gave a course in 2023 at the same institution.

#### **Pakistan: COMSATS**

The 'International Master Program in Mathematics' at COMSATS aims to provide a solid and broad foundation in advanced core topics in mathematics, including Algebraic Topology, Functional Analysis, Differential Geometry, Differential Equations, Dynamic Systems, Qualitative Theory of ODES, Complex Analysis, numerical linear algebra, Commutative Algebra, Combinatorics, Mathematical Analysis, and others.

# Pakistan: Syed Babar Ali School of Sciences & Engineering Lahore University of Management Sciences (LUMS) (Department of Mathematics)

The supported courses are part of an International Mathematics Master at LUMS. The IMM in Pakistan is an initiative of the Abdu Salam International Centre for Theoretical Physics (ICTP) for promoting high quality teaching of advanced mathematics in the whole world. The IMM consists of a two-year Master program which is taught by teams of prestigious international visiting faculty in collaboration with local faculty (with whom research collaborations is also explored).

#### VLP Courses awarded in 2023 and funds transferred in 2024:

The four courses below were awarded in 2023 and were disbursed in 2024 (from the 2023 VLP budget). The total amount of support for those four courses is Euro 6,358.93.

Host	Host Institution	Name of	Home	Name of Course	Amount
Country		Lecturer	Country of Lecturer	and Year course was held	transferred in 2024 in Euro
Mongolia	German-Mongolian Institute for Resources and Technology, Department Faculty of Mechanical and Electrical Engineering (Ulaanbaatar, Mongolia)	Prof. Fernando Costa	Portugal	Differential Equations in September 2024	€1,545.00
Nigeria	Department of Mathematics, Joseph Sarwuan Tarkaa University	Prof. Faraimunash e Chirove	South Africa	Applied Mathematics 2024	€2,475.00
Thailand:	Silpakorn University (Bangkok)	Marília PIRES	Portugal	Numerical Analysis applied to partial differential equations using the Python language, 2024	€1.048.93
Thailand:	Silpakorn University (Bangkok)	Joaquim CORREIA	Portugal	will teach a course from January 20 until February 20, 2025 in Differential Equations.	€1,290.00

Two VLP courses that were awarded in 2023 have been postponed to 2025. They have not yet received the funding and will receive it in 2025 (in total Euro 2,400) before the start of the activity. The courses will be held in Madagascar and Uganda.

#### **Travel Programs for Individual Research Visits**

#### D) Abel Visiting Scholar Program

In 2024 the Abel Visiting Scholar Grant was awarded to two recipients.

- Samarpita Ray (b.1989) is a researcher at the Indian Statistical Institute, Bangalore Centre, India. He was hosted by Prof. Julia Plavnik of the Indiana University, Bloomington, USA.
- **Duong Thi Viet An** (b.1989) is a lecturer at Thai Nguyen University of Sciences, Vietnam. She was hosted by Prof. Dr. rer. nat. habil. Christiane Tammer of the Martin-Luther-University Halle-Wittenberg, Germany.

The applications submitted for the call that concluded in December 2024 will be evaluated by February 2025.

Since 2023 funds for the Abel Visiting Scholar Program are included in the general CDC budget. The available amount for 2024 was Euro 13,733.75 (USD 15,000).

#### E) Individual Travel Support Program

The program concluded in December 2023. In 2024, Euro 31,053.19 was paid out to grantees awarded in 2023 and 2022.

One grantee awarded in 2022 had to forfeit her grant of Euro 2,500, as she was unable to embark on her research visit. 150 Euro was returned as unspent funds by grantees awarded in 2023.

### F) Simons Research Fellowship for Developing Countries

In 2024, the program granted fellowships to 30 mathematicians representing 18 countries, with award amounts ranging from USD 3,000 to USD 9,500. A total of USD 162,000 was distributed, leaving USD 38,000 to be allocated to applicants from the call closing in January 2025.

Grantee	Sex	Home Country	Host Country	Amount Awarded (USD)
			TOTAL	\$ 162,000
Abdennasser Chekroun	М	Algeria	France	\$ 4,000.00
Jonas Doumate	М	Benin	USA	\$ 5,000.00
Prakash P	М	India	France	\$ 4,000.00
Saminathan Ponnusamy	М	India	Russia	\$ 4,000.00
Narges Hosseinzadeh	F	Iran	UK	\$ 4,000.00
Ali Ashher Zaidi	М	Pakistan	New Zealand	\$ 4,500.00
Brahim Alouini	М	Tunisia	France	\$ 3,500.00
Sobirjon Shoyimardonov	М	Uzbekistan	France	\$ 4,000.00
Victor Nawa	М	Zambia	UK	\$ 4,500.00
Mamadou Abdoul Diop	М	Senegal	Morocco	\$ 3,000.00
Khagendra Adhikari	М	Nepal	Poland	\$ 5,000.00
Argha Mondal	М	India	France	\$ 4,000.00
Indranil Biswas	М	India	France	\$ 4,500.00
Mulugeta Dagnaw	М	Ethiopia	UK	\$ 9,000.00
Claudia Lederman	F	Argentina	Spain	\$ 4,500.00
Maria Eugenia Cejas	F	Argentina	Italy	\$ 4,500.00
Hichem Kasri	М	Algeria	USA	\$ 6,500.00
Gabriela Ovando	F	Argentina	France	\$ 7,500.00

Mesfin Masre Legese	М	Ethiopia	Soth Africa	\$ 5,000.00
Lkhamsuren Altangerel	М	Mongolia	Austria	\$ 7,500.00
Chibueze Okeke	М	South Africa	UK	\$ 7,500.00
Umida Baltaeva	F	Uzbekistan	France	\$ 7,000.00
Sione Paea	М	Fiji	New Zealand	\$ 3,500.00
Milan Zlatanović	М	Serbia	Bulgaria	\$ 5,000.00
Fiza Zafar	F	Pakistan	Spain	\$ 9,000.00
Markos Fisseha Yimer	М	Ethiopia	Belgium	\$ 7,500.00
Antoine Marie Bogso	М	Cameroon	UK	\$ 7,500.00
Wided Kechiche Braham	F	Tunisia	France	\$ 3,500.00
Tenkeu Jeufack Yannick Lea	М	Cameroon	Switzerland	\$ 9,500.00

In 2024, a total of USD 66,392.82 was transferred to the grantees selected in 2024. The remaining USD 95,607.18 that was awarded to grantees selected in 2024 will be disbursed in 2025.

#### **Graduate Support Programs**

#### G. IMU Breakout Graduate Fellowship Program

The funds for the IMU Breakout Fellowship Program are not included in the general CDC budget but in a separate account.

The students awarded in 2024 are:

- Copernic Boungouendji (Gabon)
- Damián Eduardo Cedeño López (Ecuador)
- Halima Yusuf (Nigeria)
- Ngo Thi Thuong (Viet Nam)
- Tamojit Sadhukhan (India)

#### Updates from Awardees selected in previous years:

- The awardees selected in previous calls have provided satisfactory reports during the year and their fellowship has been renewed. Several awardees have complete their PhD as expected.
- Heritiana Daniel ANDRIASOLOFO (Madagascar) has left the PhD program (in January 2025) and his grant has been canceled.

#### H. Graduate Research Assistantships in Developing Countries (GRAID)

Since its launch in 2027 the GRAID funds have not been included in the general CDC budget but were kept in the FIMU account. The grants have been transferred from 2017-2024 by the

American Mathematical Society to the grantees. As of 2025 the program will be fully administrated by the IMU Secretariat.

The GRAID report is issued separately to this report and will be available in April 2025.

#### Other activities

#### **CDC** webinar

On October 17, the CDC held a webinar which provided insights into its existing grant programs, including the ICM Travel Support Grant. Around 60 people participated in the webinar. The full recording is available on the CDC website.

### **CDC Meeting 2025**

The second in-person CDC meeting will be held from April 14-April 15, 2025 in Nice, France. In 2024 the accommodation and several flights were booked for the meeting. The available budget for the meeting is Euro 13,000.

#### **CDC President Visit to IMU Secretariat**

In May 2024 the CDC President visited the IMU Secretariat and discussed with the CDC Administrative Manager various programs.

#### **Library Assistance Scheme**

No books were shipped in 2024. The available budget of Euro 500 was not used.

#### CDC Panel at ICM2026

Since 2014 the Commission for Developing Countries (CDC) has organized special activities during the ICM's (Seoul 2014, Rio 2018, Virtual ICM 2022).

CDC decided during its meeting in 2023 to hold also in 2026 a special activity during the ICM2026 in the USA. Details will be discussed during the CDC Meeting in April 2025.

#### Administration

CDC administrative costs are kept to less than 10% of the CDC operating budget. The administrative costs for CDC consist mainly of bank transfer and CDC meeting costs.

Most of the administrative work is managed by staff members from the IMU Secretariat. The salaries of the IMU Secretariat staff are covered from the grant the Secretariat receives annually from the City of Berlin and the German Ministry of Education and Research. The IMU Secretariat is hosted by the *Weierstrass Institute for Applied Analysis and Stochastics* (WIAS) in Berlin, Germany. The IMU staff members are employed at WIAS. The costs of the website and technical costs are mainly covered by the IMU Secretariat funds.

The GRAID program was administered from 2017 until the end of 2024 by the GRAID Selection Committee, supported by the American Mathematical Society and FIMU. The Breakout Fellowship Program was administered in 2024 by LMS (London Mathematical

Society), supported by IMU Secretariat. Starting from 2025 both, GRAID and Breakout will be administered by the IMU Secretariat.

The Commission for Developing Countries would like to express its profound thanks to all institutions and individuals supporting CDC and its activities. Furthermore, CDC would like to extend its gratitude to all volunteers. We are truly appreciative of those individuals who dedicate their time to support all CDC activities: as members of evaluation committees, as Volunteer Lecturers, as donors of mathematical materials and as organizers of CDC activities and who help current and future generations both at home and within the mathematical community abroad. CDC is looking forward to future collaboration with all its supporters, cooperation partners and volunteers.

More information about CDC and its activities can be found on the website: http://www.mathunion.org/CDC

Andrea Solotar Ludovic Rifford

CDC President CDC Secretary for 2023-2026 Policy 2023-2026

Lena Koch, Vanessa Chung, IMU Secretariat IMU Secretariat

CDC Financial Report 2024			
IMILI Occupand Developed	00 000 00 6		
IMU General Budget	89.936,00 €		
Abel Grant excluding AVSP	15.948,40 €		
Abel Visiting Scholar Program (AVSP)	13.733,75€		
Donation Japanese Mathematical Society	911,41 €		
Donation Swiss Mathematical Society	517,65€		
Return of unused funds to CDC Conferences	1.109,57 €		
Donation FIMU to VLP	4.617,23 €		
Additional Grant IMU	10.000,00€		
Return of CDC loan to IMU 2022	10.000,00€		
Total income/returned funds)	146.774,01 €		
			Accruals for 2025
Expenditure by Category	Details	Transfers in 2024	Grants approved 2023/2024 and to be transferred in 2025
Administration	Dotailo	Trunoicio in 2024	
- Administration	Bank Cost	2.256,25 €	
		2.200,20 €	
	CDC meeting 2025	3.110,00 €	2.890,00€
	CDC members participating in meetings	286,60 €	
Conference Support Program			
	Grants approved 2024	63.400,00€	19.200,00€
Individual Travel Fellowship			
	Grants approved in 2021, 2022 and 2023	31.053,81 €	- €
Abel Visiting Scholar Program			
	Grants approved in 2023	5.617,04 €	- €

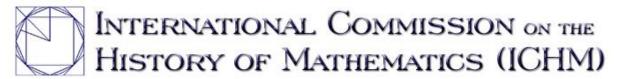
	Grants approved in 2024	7.575,29 €	6.158,46 €
Volunteer Lecturer Program			
	Grants approved 2023	6.358,93 €	2.400,00 €
	Grants approved 2024	11.225,85 €	4.400,00€
Total transferred 2024/ to be transferred 2025		130.883,77 €	35.048,46 €
Amount on the CDC bank account as of 1.1.2024		141.080,48 €	
Total transfers 2024 and grants to be transferred in 2025		130.883,77 €	35.048,46 €
Total in 2024 approved expenditure		120.502,45 €	
2024 income minus expenditure (for grants approved in 2024)		26.271,56 €	
Amount on CDC bank account as of 1.1.2025		156.970,72€	

Simons Research Fellowship	USD	USD
Grants approved between April 2024-December 2024*	\$66,392.82	\$95,607.18

<sup>\*</sup>The remaining USD\$38,000 from the \$200,000 will be allocated in to the applications submitted by January 2025. (Since the Simons year is April – April).

#### 3.3. International Commission on the History of Mathematics (ICHM)

https://www.mathunion.org/ichm



## 2024 Report of the ICHM to the IMU

June Barrow-Green (Chair)

### 1. Commission organisation

## a. List of officers and members of governing body, and governance procedures

The Executive Committee of the ICHM consists of the following members:

#### Chair

June Barrow-Green (School of Mathematics & Statistics, Faculty of STEM, Open University, Milton Keynes, UK) June.Barrow-Green@open.ac.uk

#### Vice-chair

Clemency Montelle (University of Canterbury, New Zealand) <a href="mailto:clemency.montelle@canterbury.ac.nz">clemency.montelle@canterbury.ac.nz</a>

#### Secretary

Sloan Despeaux (Western Carolina University, USA) <u>despeaux@email.wcu.edu</u> *Treasurer* 

Eisso Atzema (University of Maine, USA) <a href="mailto:eisso.atzema@maine.edu">eisso.atzema@maine.edu</a>

#### Members-at-Large

Michela Malpangotto (France) michela.malpangotto@obspm.fr

S. Mohammad Mozaffari (Iran/China) mozaffari@ustc.edu.cn

Volker Remmert (Germany) remmert@uni-wuppertal.de

Adrian Rice (USA) arice4@rmc.edu

Clara H. Sánchez (Colombia) chsanchezb@unal.edu.co

GUO Shirong (China) guoshirong1959@163.com, gsr@imnu.edu.cn

Galina Sinkevich (Russia) galina.sinkevich@gmail.com

#### IMU Representatives:

Isobel Falconer (School of Mathematics and Statistics, University of St Andrews, Scotland) <u>ijf3@st-andrews.ac.uk</u>

Guillermo P. Curbera (Instituto de Matemáticas, Universidad de Sevilla, Spain) curbera@us.es

#### Ex-Officio

Craig Fraser (University of Toronto, Canada) <a href="mailto:craig.fraser@utoronto.ca">craig.fraser@utoronto.ca</a> (immediate past chair)

Antoni Malet (Universitat Pompeu Fabra, Spain) <u>antoni.malet@upf.edu</u> (editor *Historia Mathematica*)

Jeffrey Oaks (University of Indianapolis, USA) <a href="mailto:oaks@uindy.edu">oaks@uindy.edu</a> (editor Historia Mathematica)

In 2024, the Executive Committee of the ICHM had two 'listening' members: Snezana Lawrence (International Study Group on the Relations between the History and Pedagogy of Mathematics (HPM), an affiliate of the ICMI) and Tatiano Toro (IMU liaison).

In 2024, the Executive Committee of the ICHM had four business e-meetings together with related email discussions.

## b. Sub-committees and their functions, with brief details of activities

Kenneth O. May Prize Committee (2025) June Barrow-Green (Chair) (UK) Volker Remmert (Germany) Norbert Schappacher (France) Nathan Sidoli (Japan)

The Kenneth O. May Prize is awarded every four years to a historian or historians of mathematics in recognition of distinguished contributions to the history of mathematics. A call for nominations was made in 2024. The Committee will propose two candidates to present to the ICHM Executive Committee for its consideration and vote.

Montucla Prize Committee (2025)
Adrian Rice (Chair) (USA)
Antoni Malet (Spain)
Jeffrey Oakes (USA)

The Montucla Prize is awarded every four years to the author of the best article published in *Historia Mathematica* by an early-career researcher in the four years preceding the International Congress of History of Science and Technology. The Committee will propose a candidate to the ICHM Executive Committee for its consideration and vote.

### c. Details of membership of the Commission

There are 44 National Members of the ICHM: Algeria, Austria, Belgium, Belorussia, Brazil, Canada, China, Costa Rica, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Guatemala, Iceland, Iran, Israel, Italy, Japan, Kazakhstan, Korea, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Russia, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Taiwan, Tunisia, Turkey, United Kingdom, USA. Individuals are listed at <a href="https://www.mathunion.org/ichm/about-us/members">https://www.mathunion.org/ichm/about-us/members</a>

#### d. URL of Commission website

<u>https://www.mathunion.org/ichm</u>. It is updated whenever necessary, e.g. to include changes in membership, reports of meetings, etc.

#### 2. Activities

## a. Activities undertaken or sponsored by the Commission in the last year

- ICHM panel on 'Translating European Mathematics' European Congress of Mathematics (Seville, 15-19 July 2024). The panel was chaired by Norbert Schappacher, with members June Barrow-Green, François Lê, and Frances Goldman. The panel was fully funded by the Congress.
- "History of Modern Mathematics: a conversation" (Institute for Advanced Study and online, 20 September 2024). An event organised jointly with the Institute for Advanced Study and the International Academy for the History of Science. Lecture by Volker Remmert (Wuppertal) and Rebecca Waldecker (Halle) "Big Mathematics? The Classification of Finite Simple Groups, 1950s-1980" followed by panel discussion "History of Modern Mathematics – how and why?".

## b. Publications arising from the work of the Commission in the last year.

Historia Mathematica is the official journal of the ICHM. It appears four times annually and publishes roughly 525 pages of original research in the history of mathematics from all times and cultures. The journal is currently edited by Antoni Malet (Universitat Pompeu Fabra, Spain) and Jeffrey Oaks (University of Indianapolis, USA). It is published by Elsevier Science and is available electronically to subscribers of ScienceDirect.

### c. Activities supported in the last year

Early Career Scholar Grants

Due to Covid-19, many early career scholars have been denied the opportunity to participate in face-to-face conferences, and helping with funding their attendance at such conferences is usually the main way in which the ICHM offers them support. In October 2020, the ICHM instituted a grant scheme for early career scholars to fund individual research-related activities with an international dimension. Such activities could include registration fees for online conferences, childcare grants for attendance at online conferences, cost of scans from overseas archives, etc. In 2022 it was agreed to continue this source of funding for early career scholars for the foreseeable future.

https://www.mathunion.org/ichm/grants-sponsorships/ichm-grants

- Two travel grants for ECRs in France for participation in BHSM Research in Progress, Oxford, UK, March 2024.
- Travel grant for an ECR in Serbia to enable a research visit in France, December 2024.

Other Activities

 We awarded funding for the 34<sup>th</sup> Novembertagung which was held at the Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia. See the <u>report</u> on our website.

[The Novembertagung, which is organised by early career scholars for early career scholars, is held every year in a different country. We consider this to be one of the most important meetings supported by the ICHM as it enables early career scholars to make contact with one another at an international level as well as having the opportunity to present their work in a supportive environment.]

We sponsored a Summer School at ICMS in Edinburgh on "<u>Summer School in the History of Mathematics - Current research on the history of mathematics in the ancient world: new questions and new approaches</u>" which was exclusively for ECRs. See the <u>report</u> on our website.

## d. Changes to the governance or organisation structure of the Commission

None

### 3. Future plans

#### **Activities planned for 2025**

We have awarded travel grants of 300€ each two ECRs to enable them to participate in the Modern History of Mathematics Programme, at the Isaac Newton Institute, Cambridge, UK (8 January-2 May 2025).

We anticipate awarding travel grants for participation in the BSHM Research in Progress meeting, Oxford, UK (22 February 2025).

We are sponsoring four symposia at the <u>27<sup>th</sup> International Congress of History of Science and Technology</u> (ICHST) in Dunedin, New Zealand. We will be awarding funding to facilitate attendance at the Congress by ECRs, unemployed scholars and other disadvantaged groups. One symposium has five eligible scholars hoping to attend in person and one symposium has three eligible scholars hoping to attend in person. We will do what we can to support all these scholars but we will only be able to cover a small proportion of their expenses.

The ICHST is where we hold an open meeting and award the ICHM prizes – the May Medal & Prize to senior scholars and the Montucla Prize to ECRs. We hope that the prize-winners will be able to travel to Dunedin to receive their prizes and have set aside funds for this purpose, although it is unlikely that we will be able to cover all expenses for all prize-winners – it will largely depend on where they live.

Funds will be available to support the 35<sup>th</sup> Novembertagung which is due to be held in the autumn of 2025 in either Utrecht or Istanbul. We will also make funds available to support Novembertagung satellite meetings for scholars for whom travel is not viable.

## 4. Financial report

### **Expenditure for 2024**

Earl-Career Scholar Grant

- Travel grants for two ECRs to participate in BHSM Research in Progress, March 2024. EUR 416.02 awarded.
- Research grant for ECR, July 2024. EUR 87.55 awarded. [One ECR grant has yet to be claimed.]

#### International Conferences

- Summer School at ICMS, Edinburgh, Scotland. 15-26 July 2024. EUR 1362.98 awarded.
- 34<sup>th</sup> Novembertagung, Belgrade, Serbia. 11-13 November 2024. EUR 2516.29 awarded.

Conference organizers submit reports on their conferences and these reports are published on the ICHM website <a href="here">here</a>. The financial assistance is offered to the conference organizer in the form of a grant.

#### Income for 2024

Elsevier Honoraria US\$ 5000.

DHST Grant EUR 2000.

The financial position of the ICHM is currently good but will become less flexible after the payment of grants enabling participation at the ICHST 2025.

#### 3.4. Committee on Electronic Information and Communication (CEIC)

https://www.mathunion.org/ceic



## **CEIC**

Committee on Electronic Information and Communication International Mathematical Union

ceic.chair@mathunion.org https://www.mathunion.org

## CEIC Annual Report 2024

In 2024, CEIC was fully operational; there were no changes in membership compared to the previous year. There were 9 online meetings and 81a two-day workshop at the Simons Foundation Headquarter in New York in September 2024; in addition, a subset (Agricola, Farge, Bourguignon) met at the IMU Headquarter in Berlin in June 2024 for two days for preparing the webpage relaunch.

### Organisational aspects & internal work

Continuing the tradition of the past year, there were two presentations by special guests:

- Evelyne Miot (February 26, 2024): The Centre Mersenne for Diamond open Access
- Christian Bär (April 10, 2024): Report on zbMath open IMU-CEIC

Both presentations led to intensive and insightful discussions among the members of the committee, which are recorded in the respective minutes. The talk of Evelyne underlined the importance of publishing opportunities as part of the publicly available science infrastructure. In many respects, both presentations opened the eyes of the members to how far-reaching the relevant issues are.

## Committee on Permissions (CoP)

This is an ad-hoc committee of the IMU "to advise the IMU on a negotiating strategy regarding the window for open access" proposed by the previous CEIC and chaired by Thomas Brennan (Harvard Law School, US). After a thorough survey among 65 math publishers, it submitted its final report under the title "Ensuring widespread and equitable access to back issues of mathematics journals" in June 2024, which was

then subsequently endorsed by the EC. It made very precise suggestions and recommendations for further action that were discussed at length at the New York meeting. At the moment, it remains to be seen where the resources for some of the recommended concrete actions could come from (like: negotiating a moving paywall with publishers, getting legal advice for copyright issues, developing a code of conduct for journals).

## `The Clarivate Exclusion of Mathematics' and fraudulent Publishing in the Mathematical Sciences

In January 2024, the IMU was contacted by science journalist Michele Catanzaro for a statement about the exclusion of mathematics from the database used by Clarivate for the preparation of its ranking of "highly cited researchers". The resulting article may be found at the following link and as an attachment (it includes quotes from former IMU Secretary Helge Holden and CEIC chair Ilka Agricola):

https://www.science.org/content/article/citation-cartels-help-some-mathematicians-and-their-universities-climb-rankings

After its publication, the IMU was contacted by Wil Schilders, the current president of ICIAM with the idea of writing a joint statement on fraudulent publishing. The Working Group formed by Ilka Agricola, Wil Schilders, Moritz Schubotz, Peter Taylor, Luis Vega, and joined in September 2024 by Lynn Heller, began working intensively on such a statement in May. After several months of work, it became clear that the publication should be divided into two parts: The first part would be a longer article describing the problem with extensive references and a glossary, the second part would be a shorter list of recommendations to be endorsed by the EC and ICIAM and then published together. CEIC Chair Ilka Agricola will inform IMU Secretary Christoph Sorger before the EC meeting in March 2025 about the progress.

#### Outreach

As a new line of activity, CEIC started to intensify outreach activities to the scientific community by talks at conferences & workshops as well as through articles in national bulletins, newsletters etc. of national societies. The goal was to inform the community via different channels about the CEIC goals and to get feedback from the community. As part of this activity, there were the following talks:

General "News from the Committee on Electronic Information and Communication":

- Jean-Pierre Bourguignon, 9th ECM Sevilla, July 2024
- Ilka Agricola, Bridges Workshop Cargese, July 2024
- Ilka Agricola, Hausdorff Center Bonn, July 2024

Focused talks on fraudulent publishing:

- Ilka Agricola, *The challenges of predatory journals and paper mills in mathematics:*A glimpse at the parallel universe of fake science, University of Irvine, October 2024
- Ilka Agricola (with Ivan Oransky from the Simons foundation and Olaf Teschke from zbMath): 2h Professional Development Workshop on "Large-scale problems and challenges in mathematical publishing" at SLMath Berkeley, December 2024

And two articles by the following CEIC members:

- Takashi Kumagai, in the Bulletin of the Japanese Mathematical Society (in Japanese)
- Ingrid Rewitzky, in the Digest of the South African Mathematical Society (in English)

## Workshop Perspectives on Electronic Information and Communication in the Mathematical Sciences

This workshop was funded by the Simons Foundation and took place at its headquarters in New York September 12-13, 2024. The 2-pages report of the workshop and a group picture are added at the end of the report. Meanwhile, the videos are available online at

https://www.simonsfoundation.org/event/mps-workshop-on-perspectives-on-electronic-information-communication-in-the-mathematical-sciences/

#### Future members of CEIC

In Fall 2024, CEIC suggested members

#### For renewal:

— Jean-Pierre Bourguignon, Kevin Buzzard, and Ingrid Rewitzky

#### For a new term:

- Lynn Heller / BIMSA Beijing (https://www.bimsa.cn/detail/lynnheller.html)
- Mark C. Wilson / University of Massachusetts Amherst (https://markcwilson.site/)

They were all invited to join CEIC and accepted the offer, hence CEIC will have two new members as of January 1st, 2025. Both had attended the New York meeting.

Signed: Ilka Agricola (CEIC Chair), February 10, 2025 (after approval by the CEIC by email)



## Report on the MPS Workshop on Perspectives on Electronic Information & Communication in the Mathematical Sciences

25 experts from all continents except Antartica gathered in New York under the auspices of the IMU (International Mathematical Union) and upon invitation of the Simons Foundation to discuss recent developments in mathematical publishing in a very broad sense. Rather than a classical scholarly meeting, the participants understood their active participation as a service to the global mathematical community with the following goals:

- To develop together an expert opinion on key issues around mathematical publishing
- To formulate recommendations, milestones & guidance for the community
- To discuss the dissemination and communication of the results to the community, national societies, policy makers etc.

Five major points of interest & action were identified prior to the meeting and served to structure the workshop. Clearly, the topics 3) and 5) were more of a strategic nature, while identifying concrete actions were the goal of topics 1), 2), and 4). We review them all quickly below.

### 1. Steps towards a Global Digital Math Library (GDML)

In the past two years, an ad hoc committee conducted a large investigation among publishers entitled *Ensuring widespread and equitable access to back issues of mathematics journals.* 

The report and further actions were discussed (contacts with the publishers for further negotiations for a 5-year moving wall for back archives, develop an "IMU Code of Practice" for journals, make sure that recommendations are well communicated to the national societies, deepen cooperation with zbMath and ArXiv).

## 2. Copyright strategies and legal issues

A few goals were identified as desirable, but it became clear that the math community does need some expert legal advice on this, and that this is highly desirable because individual researchers and even national societies do not have the necessary resources for mastering and clarifying international legal issues. The desiderata were: Support for diamond OA and control of mathematical publishing infrastructure by the mathematical community; encouraging systematic deposit of author-accepted manuscripts on arXiv, discussing with arXiv a possible modification of the standard license; formulating advice on copyright transfer for authors.

## 3. The future of mathematical libraries and research data infrastructure

To identify the biggest challenges, the discussion was organised around a few guiding questions, namely:

- What parts of the mathematics research cycle are currently underserved by libraries and information repositories/providers?
- What aspects of libraries and information repositories/providers are underused by mathematics?
- How do you think the informational needs of mathematicians will change in the next 5-25 years?
- What are the biggest informational challenges you foresee for mathematics in the next 5-25 years?
- What potential partnerships can you see between libraries/librarians and mathematics/mathematicians?

A massive and rather dynamic change of the role of math librarians is expected by all participants. The main risk perceived in the transition is that digitalisation might lead to the misunderstanding that math librarians are not needed anymore. National networks of math librarians in a quickly changing research environment should be encouraged and the role of librarians expanded to partners of the community in the whole publication process.

## 4. The challenges of citation cartels and predatory publishers

For this topic, a subgroup of 5 people had been working since several months on an assessment of the situation in mathematics (in short: paper mills and predatory journals have strongly professionalised their activities in the past 10 years and are now creating a substantial revenue. There is a growing parallel universe of fake mathematical science that undermines the trust in science and devaluates the classical selection criteria for scientific excellence based on the (over-)use of bibliometrics). The concrete starting point was that in November 2023, Clarivate (the company computing impact factors of journals and owning "WebofScience") announced that it had excluded the entire field of mathematics from the most recent edition of its list of authors of highly cited papers because of extensive citation manipulation. A joint statement of the IMU with ICIAM (International Council for Industrial and Applied Mathematics) is under preparation. It will contain a detailed discussion of the problem and concrete recommendations for the scientific community.

# 5. The impact of AI and computer proof assistants on mathematical publishing

This was a rather fascinating open discussion on the possible benefits and risks of Al tools in publishing; and an overview of the abilities of modern theorem provers. This needs to be followed more closely in the near future!

### Concluding remarks

This was the first in-person meeting on Publishing in the mathematical sciences since more than 5 years, and for many people it was their first opportunity for a personal encounter. It was extremely fruitful and we believe that it will be the starting point for many further activities and discussions.

Many thanks go to all participants for their engagement and to the staff of the Simons Foundation for their fantastic support and providing a very adequate work environment.

Signed: Prof.Dr. Ilka Agricola, Chair of CEIC & lead organiser. Berkeley, September 23, 2024

#### 3.5. Committee for Women in Mathematics (CWM)

https://www.mathunion.org/cwm



Report of the activities of the IMU Committee for Women in Mathematics (CWM) in 2024

#### 1) Committee members

The composition of CWM 2023-2026 is as follows.

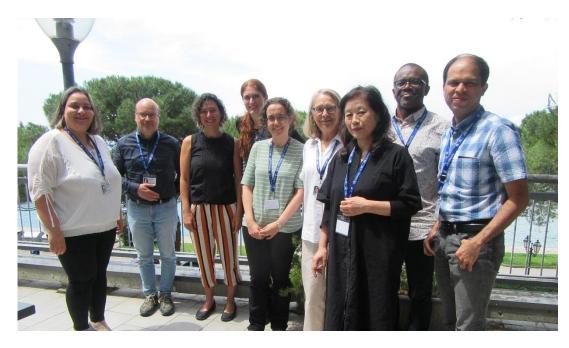
- Carolina Araujo, IMPA, Rio de Janeiro, Brazil Chair
- Hélène Barcelo, SLMath, Berkeley, USA Vice Chair
- U.K. Anandavardhanan, IIT Bombay, India
- Tony Ezome, Ecole Normale Supérieure, Libreville, Gabon
- Catherine Greenhill, University of New South Wales, Australia
- Motoko Kotani, Tohoku University, Japan
- Matilde Lalín, Université de Montréal, Canada
- Selma Negzaoui, University of Monastir, Tunisia
- Ekin Ozman, University of Groningen, Netherlands
- Carola Bibiane-Schönlieb, University of Cambridge, UK

IMU EC liaison: Hiraku Nakajima, University of Tokyo, Japan

2) CWM meetings in 2024

In 2024, the CWM met twice. The first meeting took place online (via Zoom) on February 12, 2024, with the primary goal of selecting the activities to be supported by CWM in 2024. The first in-person meeting of the CWM 2023-2026 was held on June 3-4, 2024, at the Abdus Salam International Centre for Theoretical Physics (ICTP) in Trieste, Italy. Below, we provide a brief summary of the key topics discussed during the in-person meeting. The agenda for the meeting is included in Annex A.

88



#### CWM Meeting - June 3-4 2024 at ICTP

**Present in person:** Carolina Araujo, Hélène Barcelo, U.K. Anandavardhanan, Tony Ezome, Motoko Kotani, Matilde Lalín, Selma Negzaoui, Ekin Ozman, Christoph Sorger (replacing the IMU EC liaison).

Present online: Catherine Greenhill

Apologies: Carola-Bibiane Schönlieb, Hiraku Nakajima

Among the topics discussed and decisions made during these two intense days, we highlight the following:

- It was decided that the CWM Call 2025 would use the IMU Grant Management System, the same system that has been used by the CDC Conference Support Program since 2023. Following the CDC's initiative, CWM also decided to host a webinar to promote and explain the features of the call. Furthermore, CWM has formulated an addendum to the IMU Guidelines for Handling Conflicts of Interest, specific to the CWM annual call, which has been endorsed by the IMU EC (see Annex B).
- The CWM reviewed its scheme for CWM Ambassadors, whose duties include circulating the CWM newsletter and other communications within their country, geographical region, or organization, as well as reporting back to the CWM about relevant events and activities. CWM will periodically check ambassadors 'intentions and availability to continue as active CWM Ambassadors and will create a distinguished group of Alumni Ambassadors for those who wish to pass the baton to someone else.
- Earlier in 2024, the IMU EC approved and supported CWM's request to make the "May 12 Initiative" an official IMU CWM Initiative. The interactive May 12 website will be moved to Berlin, and CWM will coordinate with the current May 12 coordination group to ensure a smooth transition.

CWM has begun shaping the third World Meeting for Women in Mathematics - (WM)<sup>2</sup>, to take place in Philadelphia in 2026 as a satellite event of the ICM 2026. The event will be planned with a focus on "celebrating diversity."

#### 3) Activities supported by the CWM Call 2024

In November 2023, CWM called for proposals for initiatives to support women in mathematics taking place from February 2024 to February 2025. The CWM 2024 call (see Annex C) received 39 applications, of which 10 were selected for support. Some of the selected projects aim to support continental networks for women in mathematics, such as the Asian-Oceanian Women in Mathematics (AOWM) Workshop in New Zealand and the series of activities organized by the Gender and Diversity Commission of UMALCA (CGD-Umalca) within the Latin American and Caribbean Congress of Mathematics. CWM also supported networking and visibility activities for women in mathematics in Brazil, India, Malawi, Mexico, Namibia, and Senegal, as well as two research workshops aimed at establishing research networks for women, in Burundi and Uganda. Depending on the nature of the project, CWM funding was allocated to infrastructure, the creation of audiovisual material, travel expenses, and accommodation support for participants from developing countries. Below, we provide more details on each of these projects.

#### Asian-Oceanian Women in Mathematics (AOWM) Workshop

The Asian-Oceanian Women in Mathematics (AOWM) Workshop will take place in New Zealand from December 6 to 9, 2024. It will be held as a satellite event and prequel of the joint meeting of the New Zealand, Australian and American mathematical societies.

\_\_\_\_\_

#### **Emphasizing Diversity and Empowerment in Mathematics**

This is a series of activities organised by the Commission on Gender and Diversity (CGD) of UMALCA during the Latin American and Caribbean Congress of Mathematics (CLAM), to take place on August 26-30, 2024, in João Pessoa, Brazil. Activities include round-table discussions and a workshop on Mathematics and DEI (Diversity, Equity, and Inclusion).

#### 3rd Brazilian Meeting for Women in Mathematics

The Brazilian Meetings for Women in Mathematics aim to promote a broad discussion on the insertion, permanence and performance of women in mathematics in Brazil. The 1st edition took place in Rio de Janeiro in 2019, and the 2nd edition took place in Belém do Pará in 2022. The 3rd one will take place in the city of Salvador da Bahia, on November 13-16, 2024.

#### Indian Women and Mathematics (IWM) Activities in 2024

The collective Indian Women and Mathematics (IWM) develops several activities to support women in mathematics, such as workshops, mini-courses, a visitor program, and the IWM Annual Conference.

Strengthening the work-life balance of African women in mathematics through collaborative research in pairs

This project from Malawi consists of a week-long workshop, followed by a mentorship program and research in pairs scheme, with a focus on work-life balance of African women in mathematics.

#### **Visibility of Latin American Women Mathematicians**

This proposal, led by ICMAM Latin America with the support of Mexican mathematical institutions, aims to increase the visibility of Latin American women in mathematics by disseminating and popularising their scientific work through the creation of audiovisual material and a documentary.

#### Fostering a passion for mathematics amongst women

This project consists of a panel discussion on education of mathematics aimed at fostering networking opportunities for women mathematicians, to be organised within the Southern Africa Mathematical Sciences Association (SAMSA) annual conference on November 26-29, 2024, in Namibia, and the establishment of mentorship program.

#### First Symposium of Senegalese Women in Mathematics

The Senegalese Women in Mathematics Association (SWMA) was established in 2016 to promote mathematics and Senegalese women mathematicians. The first symposium of SWMA will be held in Dakar, Senegal, on August 7-9, 2024.

#### **Inaugural African Women in Algebra Workshop**

African Women in Algebra (AWA) is an association of African women working in algebra and its applications. It has members from 12 African countries and runs several activities, including a weekly virtual research seminar. The inaugural African Women in Algebra Workshop will take place on July 1-6, 2024, at Kabale University, Uganda.

#### Women In Sage Burundi

Since 2007, more than 100 Sage Days have been organised around the world. The 4th edition in Africa will take place on September 9-13, 2024, at Burundi University, with the support of the African Women in Mathematics Association (AWMA).

#### 4) CWM Newsletter

The CWM Newsletter has been issued twice a year since May 2019, in May and November/December. It can be subscribed to through the CWM webpage (\*). The newsletter is sent automatically to those who have subscribed. It is also emailed to CWM ambassadors, who distribute it in their respective countries, and to various mathematical institutes. The newsletter is also posted on the CWM website and advertised in IMU-News. It is currently edited by CWM member Ekin Ozman. Two CWM Newsletters were issued in 2024 with the following content.

(\*) <a href="https://www.mathunion.org/cwm/about/cwm-newsletter">https://www.mathunion.org/cwm/about/cwm-newsletter</a>

#### CWM Newsletter Issue 11 - May 2024

- Interview with CWM member Selma Negzaoui from Tunisia;
- News from CWM: Results of the annual CWM Call, May 12 Campaign and more;
- Other News and Announcements:
- Article "Rare bugs: Gender and subjectivities in the field of mathematical research in Chile", by Andrea Vera-Gajardo.

https://www.mathunion.org/fileadmin/CWM/Initiatives/CWMNewsletter11.pdf

#### CWM Newsletter Issue 12 - December 2024

- Interview with CWM member Catherine Greenhill, from Australia;
- News from CWM: CWM Call for 2025 is open, and more;
- Other News and Announcements: Announcements of several awards and reports of some of the CWM funded activities;
- Article "Inception of Asian-Oceanian Women in Mathematics (AOWM) and Its Progress in Last One and Half Years" by Sanoli Gun and Kyewon Koh Park

https://www.mathunion.org/fileadmin/CWM/Initiatives/CWMNewsletter12.pdf

#### 5) Remember Maryam Mirzakhani Exhibition

The Remember Maryam Mirzakhani Exhibition consists of 18 original posters. It was first produced by CWM in 2018 for the Maryam Mirzakhani Memorial during the first World Meeting for Women in Mathematics - (WM)², in partnership with curator Thais Jordão and designer Rafael Meireles Barroso. Since then, it has been displayed in several locations across the globe. Institutions interested in hosting the exhibition can contact CWM to request an agreement. Once the request is approved, they receive access to a folder in IMU's cloud containing the 18 exhibition posters, as well as an introductory poster and flyers presenting the exhibition. In 2024, CWM made agreements with the following institutions to host the Remember Maryam Mirzakhani Exhibition:

- The Abu Dhabi National Exhibition Centre (ADNEC): The exhibition was showcased during the 14th AIMS Conference, hosted by New York University Abu Dhabi, from December 16-20, 2024.
- Universidad de La Frontera, Temuco, Chile: The exhibition was displayed in the entrance hall of the Aula Magna from May 13-16, 2024, and at the entrance of the main library from May 20-31, 2024. This was part of the activities for the project "Actividades para el Día Internacional de las Mujeres en Matemáticas" (Activities for the International Day of Women in Mathematics).
- Istanbul Kültür University Ataköy Campus, Turkey: The exhibition was shown at "Mathematics Day Istanbul," which took place on March 14, 2024.

#### 6) The Standing Committee for Gender Equality in Science (SCGES)

From 2017 to 2019, a number of international scientific organizations, led by the IMU and the International Union of Pure and Applied Chemistry (IUPAC), carried out the project "A Global Approach to the Gender Gap in Mathematical, Computing, and Natural Sciences: How to Measure It, How to Reduce It?", known as the "Gender Gap in Science Project." The main goal of the project was to produce reliable data about the gender gap in science to support the selection of feasible interventions that scientific unions could undertake. In 2020, the Gender Gap in Science book was published, presenting the methodology, results, activities, and recommendations of the project. The SCGES was formed as a follow-up to this project, reflecting a shared desire among these organizations to continue working together to further promote gender equality in science. Its aim is to ensure liaison among international scientific unions to foster gender equality and implement the recommendations of the "Gender Gap in Science Project." SCGES had initially nine founding partners in 2020, including the IMU. The number of partners has grown steadily since then and reached twenty-five on November 2024.

Until October 2024, the IMU representative and deputy representative at SCGES were Marie-Françoise Roy (former CWM chair) and Carolina Araujo (current CWM chair). Starting in October 2024, the IMU representative has been Motoko Kotani (CWM member), and the deputy representatives have been Carolina Araujo and Marie-Françoise Roy. In 2024, the SCGES met twice. The 8th SCGES meeting took place on February 26-27, 2024, in Paris, France, with some members attending via Zoom. It was attended by Marie-Françoise Roy and Christoph Sorger (IMU Secretary General). The 9th SCGES meeting took place online on October 19, 2024. It was attended by Carolina Araujo and Marie-Françoise Roy.

Among the projects currently run by the SCGES, we highlight the "SCGES Webinar" and the recently launched "Women Scientists Around the World: Strategies for Gender Equality." The SCGES Webinar Series is a regular online event that has covered various topics of interest related to the committee's focus since 2022. All past SCGES webinars are accessible for viewing on the SCGES YouTube channel (\*). The new project, "Women Scientists Around the World: Strategies for Gender Equality," is developed in partnership with the International Science Council (ISC). It consists of a series of articles, based on interviews with women scientists from various disciplines and geographic regions, several of whom have attained leadership roles in scientific organizations. The project explores the drivers and barriers to gender representation in scientific organizations, aiming to document, from a qualitative perspective, the obstacles to gender equality in science and the strategies developed to address them (\*\*).

The SCGES Fourth Annual Report was published in November 2024 and can be found on the SCGES website (\*\*\*). Compiled by twenty-one of its partners, the report contains information on each union's situation and the actions they have undertaken regarding gender equality in the scientific discipline they represent.

- (\*) https://www.youtube.com/channel/UC25VqRqj6KrDpw4neB7QaJQ
- (\*\*) https://gender-equality-in-science.org/women-scientists-around-the-world-strategies-forgender-equality/
- (\*\*\*) https://gender-equality-in-science.org/wp-content/uploads/2024/10/4th-SCGES-Annual-Report.pdf

#### 7) CWM Ambassadors

CWM has established a list of special correspondents worldwide, called CWM Ambassadors, with the job of disseminating information received from CWM, as well as keeping CWM informed about activities and initiatives in their countries. The original list included 85 names from 55 countries in 2016. There are now 180 CWM ambassadors from 101 countries. The list is posted on the CWM website (\*).

(\*) <a href="https://www.mathunion.org/cwm/about/cwm-ambassadors">https://www.mathunion.org/cwm/about/cwm-ambassadors</a>

#### 8) CWM Call 2025

In October 2024, the CWM Call 2025 was launched, inviting proposals for funding activities or initiatives to support women in mathematics taking place from March 2025 to February 2026, with a deadline of December 13, 2024 (see Annex D). With the assistance of IMU Community Manager Vanessa Chung, a webform for the CWM Call was set up within the IMU Grant Management System. The use of this system has improved the CWM Call process.

On November 27, 2024, CWM hosted an informative webinar to provide an overview of the CWM Call 2025, explain the new application process, and address participants' questions. The CWM Call 2025 received 61 applications, the largest number of applications ever received.

\_\_\_\_\_

#### 9) CWM website and publicity

The CWM website (\*) gathers information about relevant organizations, news, and events for women in mathematics worldwide. It has been updated regularly with the help of IMU archivist Birgit Seeliger. CWM also regularly contributes a section to the IMU News.

(\*) http://www.mathunion.org/cwm/

#### 10) CWM operation mode and liaison with the IMU EC and office

Most of CWM's work has been conducted via email, with Zoom calls also being used. The liaison with the IMU Executive Committee through Hiraku Nakajima has been very positive. We would like to thank the members of the IMU office staff, who have consistently been extremely helpful.

11) CWM Expenditure 2024

Balance left from 2023 (*)	8 788,80 €	
Budget from IMU 2024	22 545,00€	
Donation Uni Konstanz (Remember Maryam Mirzakhani)	150,00 €	
Call 2022 - AWMA website (**)		3 000,00 €
Call 2024 - African Women in Algebra (R2)		2 536,55 €

Call 2024 - CGD of UMALCA (N9)		2 036,55 €
Call 2024 - Work-life balance African Women (R4)		1 036,55€
Call 2024 - Fostering passion for math women (N3)		1 036,55€
Call 2024 - Women In Sage Burundi (R5)		2 536,55 €
Call 2024 - Visibility Latin American women math (N23)		1 536,55 €
Call 2024 - AOWM Workshop (R6)		1 036,55 €
Call 2024 - IWM Activities (N10)		1 000,00€
Call 2024 - Senegalese Women in Mathematics (R3)		1 536,55€
Call 2024 - 3rd Brazilian Meeting Women in Math (R12)		1 036,55€
CWM Meeting - Travel Expenses Tony Ezome		1 810,00€
CWM Meeting - Travel Expenses U.K. Anandavardhanan		1 421,31 €
CWM Meeting - Travel Expenses Ekin Ozman		448,45€
CWM Meeting - Travel Expenses Selma Negzaoui		440,55€
CWM Meeting - Meal Expenses		534,00€
Maintenance and hosting of (WM) <sup>2</sup> website		900,00€
CWM Newsletter/Sendinblue - Share CWM 2023		163,85€
Total expenses 2024		24 047,11 €
Balance left from 2024	7 436,69 €	

<sup>(\*)</sup> We intentionally underspent in 2023 to ensure we had funds available to cover the in-person CWM meeting at ICTP in 2024. We spent less than anticipated for the CWM meeting because CWM members Carolina Araujo, Hélène Barcelo, Motoko Kotani, and Matilde Lalín were able to use funds from other sources to cover their travel expenses. Additionally, ICTP provided accommodation and partial coverage of local expenses for meeting participants.

(\*\*) 3 000 € reallocated from CWM Call 2022 (AWMA website). The work on the webpage started late in 2023 and the payment from IMU took place in January 2024.

#### 12) Annexes

- A Agenda for CWM meeting on June 3-4, 2024, at ICTP
- B Guidelines for Handling Conflicts of Interest Addendum for CWM
- C CWM funding call for 2024

https://www.mathunion.org/fileadmin/CWM/Initiatives/CWMCall2024.pdf

D -	<b>CWM</b>	funding	call for	2025
-----	------------	---------	----------	------

https://www.mathunion.org/fileadmin/CWM/Initiatives/CWMCall2025.pdf

Carolina Araujo Chair of the IMU Committee for Women in Mathematics

## 4. Circular Letters of the IMU Secretary General to the Adhering Organizations



#### **International Mathematical Union**

January 18, 2024 IMU AO Circular Letter 1/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### **Updated Contact Information**

#### Dear colleagues

I will shortly send out individual emails to all IMU members regarding your country's contact information for the IMU.

The most recent contact information regarding the IMU members can be found <a href="here">here</a>.

We will send you the email addresses that we use when we contact your country.

Please take time to check if you want us to update them.

Please reply to me with cc to <a href="mailto:manager@mathunion.org">manager@mathunion.org</a>

- confirming that the information above is correct, or
- sending corrected/updated information.

#### **Electronic voting**

The individual email I will send to IMU members with voting rights will also ask for confirmation of the unique email address to be used for electronic voting.

#### Advice re email addresses

In order to establish and maintain reliable and sustainable connections with the IMU, the following steps are recommended:

• Create generic addresses like "president@mathsociety.country", which will remain unchanged. Emails to a generic address can be forwarded to the person(s) holding the office.

- Emails sent from the IMU should be received by at least two different recipients, preferably using different mail servers. If we have only one email address for a country, and that address ceases to work, we will be unable to discover that you did not receive our email, and, thus, we will lose contact with your country. Similarly, having at least two recipients helps ensure communication is maintained in situations such as individual prolonged absences etc.
- Please try and maintain the email addresses you give us and send us updates if necessary. We reserve the right to remove addresses that constantly bounce.
- Please create a stable URL for your Adhering Organization.

#### Fraud alerts

The IMU is regularly exposed to attempted frauds, usually in the form of emails requesting immediate transfer of money due to some emergency. I would like to take this opportunity to reiterate that the IMU never requests money on an individual basis.

Fraudulent emails often appear to be sent in the name of the IMU President or other IMU office holders, and can seem quite authentic, but closer scrutiny of the email reveals that the IMU is not the sender. Please also note that emails sent from the IMU President or IMU Secretary General are digitally signed (S/MIME certification) and have a signature with the IMU Logo below. Any other email should be considered as suspicious, in which case please do not respond to it and report it to me.

Regards

**Christoph Sorger** 



April 24, 2024 IMU AO Circular Letter 2/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### Nomination of invited plenary and sectional speakers for ICM 2026

#### Dear colleagues

The Program Committee (PC) for the <u>International Congress of Mathematicians 2026</u> in Philadelphia, USA, 23–30 July 2026, has been established. At this moment in time the Adhering Organizations of the IMU and mathematical societies worldwide are invited to nominate plenary and sectional speakers.

I refer to section 4 of the <u>2023 report</u> of the ICM Structure Committee, which lists the ICM 2026 sections as proposed by the ICM Structure Committee and endorsed by the IMU Executive Committee (see <u>CL 8/2023</u>). When you make nominations for speakers, please specify whether you suggest them as plenary speakers or sectional speakers. In case of proposals of sectional speakers, please indicate to which sections you would like the persons to be invited. Shared lectures between sections are also possible.

As a reminder, the IMU Executive Committee also endorsed the proposal to leave 20 sectional talks, and one or two plenary talks, to be assigned to special lectures (described in section 3.3 of the report). Nominations for these talks are also invited.

All communication concerning the scientific program of ICM 2026 is handled by the Chair of the Program Committee, Claire Voisin. Please direct all your proposals for invited plenary and sectional speakers to Claire Voisin using the email address

#### chair@pc26.mathunion.org.

Nominations should be received by the PC Chair no later than 1 November 2024.

Regards

Christoph Sorger



April 26, 2024 IMU AO Circular Letter 3/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### Call for nominations to the Nominating Committee of the IMU

#### Dear colleagues

This email marks the beginning of the preparations of the next meeting of the IMU General Assembly (GA) to be held in New York City, USA, on 20–21 July 2026. Adhering Organizations of Associate Members and Affiliate Members receive this letter for information only.

Following the Procedures for Election, a Nominating Committee (NC) is to be formed this year, whose task it will be to present slates of nominations to the Adhering Organizations (AOs) prior to the GA meeting in New York City. Every AO is requested to nominate at most one person for this NC.

The NC is one of the most important IMU committees since it has a strong influence on the composition of the IMU leadership for the term 2027–2030.

The role of the NC is described in detail in the Procedures for Election.

The duty of the NC is to present a slate to the GA for candidates for membership of the IMU Executive Committee (EC), Commission for Developing Countries (CDC), and International

Commission on the History of Mathematics (ICHM) for the term 2027–2030, see below.

The composition of the NC is as follows:

- (a) IMU President
- (b) NC Chair (chosen by the IMU President).
- (c) Three other persons (chosen at random from AO nominations).
- (d) Two persons with experience of the IMU (chosen jointly by the NC Chair and the IMU President).

This call for nominations concerns the three persons mentioned under item (c).

The IMU EC asks for the nomination of persons

- who are not current members of the IMU EC,
- who are willing to serve, and

- who do not work in the same country as the NC Chair or the IMU President.

The IMU President Hiraku Nakajima has chosen Helge Holden (IMU Secretary General 2015–2022) as the Chair of the NC. In particular, this implies that no person working in Japan or in Norway can be nominated.

Among the three persons chosen at random mentioned under item (c) above, one person is to be chosen from nominations submitted by Groups I and II, one person chosen from nominations submitted by Groups III and IV and one person chosen from nominations submitted by Group V. Each AO may submit one name of a person who is willing to serve. If there are no nominations in one of these three categories, then a person will be chosen at random from the other two categories.

All submissions are to be sent via email to the IMU Secretary General at <a href="mailto:secretary@mathunion.org">secretary@mathunion.org</a>. All email submissions must be sent from an official email address of the AO. Email submissions will be acknowledged.

#### Additional requirements:

- Every nomination of a candidate has to be accompanied by a statement of the candidate that they are willing to serve.
- No member of the NC will be eligible to hold an office for 2027–2030 on the IMU
   EC, CDC or ICHM.

The deadline for receipt of nominations from which a random selection will be made is

#### 1 August 2024

The NC is scheduled to be complete by 1 October 2024, and according to the tradition, the AOs will be informed about its composition at that time.

Regards

**Christoph Sorger** 

Secretary General of the International Mathematical Union

\_\_\_\_

**Duties of the IMU Nominating Committee** 

- (a) Nomination slates will be formed for the IMU Executive Committee (EC), the IMU Commission for Developing Countries (CDC), and the International Commission on the History of Mathematics (ICHM).
- (b) The slates for the commissions will be formed taking advice from the current officers of these commissions, but this advice is not binding on the IMU Nominating Committee.

(c) The IMU Nominating Committee will nominate one name for the position of President of IMU, Secretary General of IMU, President of CDC, and Secretaries of CDC, and one name for each of the two Vice Presidents of IMU.

The IMU Nominating Committee will nominate at least two more names than the number of Members-at-Large of the IMU EC, at least two names for each of the three positions for CDC Members-at-Large in representation of Africa, Asia, and Latin America, and at least two more names than the number of ICHM representatives.



June 17, 2024 IMU AO Circular Letter 04/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### Slate for the ICMI election for its Executive Committee

#### Dear colleagues

I write further to <u>CL 25/2022</u> regarding the elections for the ICMI Executive Committee for the term 2025–2028, due to take place at the ICMI General Assembly on

#### 7 July 2024.

The Nominating Committee, chaired by Abraham Arcavi, has proposed the attached slate for the upcoming election.<sup>4</sup>

Further information regarding the candidates etc. has been sent to the Country Representatives. For a complete list of all Country Representatives, please see the webpage.

Regards

**Christoph Sorger** 

<sup>&</sup>lt;sup>4</sup> The slate was provided in confidentiality to AOs in attachment to the original email.



July 12, 2024

IMU AO Circular Letter 5/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### Call for nominations for IMU prizes

#### Dear colleagues

As Secretary General of the IMU I invite you to submit nominations for the IMU distinctions listed below, thus assisting the corresponding committees in their task of selecting the awardees who will receive their distinctions at the International Congress of Mathematicians (ICM) 2026 in Philadelphia, USA.

Here is the list of awards for which we presently seek nominations, each listed with a short description and the email address to which nominations should be sent:

#### The Fields Medals

Chair: IMU President Hiraku Nakajima – Email: <a href="mailto:chair@fields26.mathunion.org">chair@fields26.mathunion.org</a>

The <u>Fields Medals</u> are awarded every 4 years on the occasion of the ICM to recognize outstanding mathematical achievement for existing work and for the promise of future achievement

#### The IMU Abacus Medal

Chair: Endre Süli – Email: <a href="mailto:chair@abacus26.mathunion.org">chair@abacus26.mathunion.org</a>

The <u>IMU Abacus Medal</u> is awarded once every 4 years at the ICM for outstanding contributions in mathematical aspects of information sciences. The IMU Abacus Medal is a continuation of the Nevanlinna Prize and was awarded for the first time at ICM 2022.

#### The Carl Friedrich Gauss Prize

Chair: Felix Otto – Email: <a href="mailto:chair@gauss26.mathunion.org">chair@gauss26.mathunion.org</a>

The <u>Gauss Prize</u> is awarded once every 4 years to honor a scientist whose mathematical research has had an impact outside mathematics – either in technology, in business, or simply in people's everyday lives.

#### The Chern Medal Award

Chair: Nathalie Wahl – Email: <a href="mailto:chair@chern26.mathunion.org">chair@chern26.mathunion.org</a>

The <u>Chern Medal</u> is awarded every 4 years on the occasion of the ICM to an individual whose accomplishments warrant the highest level of recognition for outstanding achievements in the field of mathematics.

#### The Leelavati Prize

Chair: Hinke Osinga – Email: <a href="mailto:chair@leelavati26.mathunion.org">chair@leelavati26.mathunion.org</a>

The <u>Leelavati Prize</u> is intended to accord high recognition and great appreciation by the IMU and Infosys for outstanding contributions to increasing public awareness of mathematics as an intellectual discipline and the crucial role it plays in diverse human endeavors.

The IMU also requests nominations for the

#### **ICM Emmy Noether Lecture**

Chair: Jill Pipher – Email: <a href="mailto:chair@noether26.mathunion.org">chair@noether26.mathunion.org</a>

The <u>ICM Emmy Noether Lecture</u> is a special lecture at an ICM that honors women who have made fundamental and sustained contributions to the mathematical sciences.

More information about each of these awards and the Noether lecture, as well as lists of past laureates, can be found on the IMU website.

The full composition of each committee remains confidential and will not be revealed until the opening ceremony of ICM 2026.

The IMU stands for and promotes diversity in mathematics, with a commitment to fostering diversity and inclusion in all its activities. Committee members abide by the IMU's guidelines on conflicts of interest, unconscious bias, and the principle of freedom and responsibility in science.

To allow the committees sufficient time for this decision process, the IMU has set

#### 31 December 2024

as the deadline for nominations.

Because the ICM Emmy Noether Lecture is a special lecture at an ICM, the deadline for nominations for the ICM Emmy Noether Lecture is earlier and is set for 1 October 2024.

Nominations received after these dates will only be considered at the discretion of the committee. Thus, we would like to urge you to submit any compelling nominations you wish to make before the above deadlines.

Please send your nomination to the special email address of the committee chair as given above. Thereby you will ensure that it automatically reaches the corresponding committee. A copy of your nomination material will be archived in the IMU Secretariat in Berlin with an embargo of 70 years for anyone outside the committee.

We look forward to receiving your nominations!

## Regards

Christoph Sorger



July 24, 2024

**IMU AO Circular Letter 6/2024** 

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### The new Executive Committee of ICMI

#### Dear colleagues

I refer to Circular Letters 25/2022 and 4/2024.

On July 7, 2024, the International Commission on Mathematical Instruction (ICMI), a commission of the IMU, hosted its quadrennial General Assembly in Sydney, Australia. I am now pleased to inform you that the newly elected Executive Committee of ICMI for the term 1 Jan 2025 – 31 Dec 2028 is as follows:

President: Merrilyn GOOS (Australia)

Secretary-General: Jean-Luc DORIER (Switzerland)

Vice President: Jinfa CAI (USA)

Vice President: Betina DUARTE (Argentina)

#### Members-at-large:

Mercy KAZIMA (Malawi) Nùria PLANAS (Spain) Susanne PREDIGER (Germany) Ramaswamy RAMANUJAM (India) Cristina SABENA (Italy)

In addition, Fredrick K.S. LEUNG, (Hong Kong, SAR, China) will serve as Past President of the new ICMI EC. The IMU President and Secretary General also serve ex officio on the ICMI EC.

This is for your information.

#### Regards

**Christoph Sorger** 



September 6, 2024 IMU AO Circular Letter 7/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### **Travel grants for ICM 2026**

Dear colleagues

It has been a longstanding tradition that the organizers of the ICM offer support in order that mathematicians from developing countries can participate at the ICM.

For ICM 2026 in Philadelphia, USA, the organizers have announced the following grant program:

#### **ICM 2026 Travel Support Program**

With generous funding from the Simons Foundation and in collaboration with the IMU and the IMU's Commission for Developing Countries (CDC), the American Mathematical Society (AMS) is offering travel support for ICM 2026 participants that will provide partial support for mathematicians from eligible developing countries to attend the ICM.

The application deadline is

20 November 2024 (11:59 pm EST)

Applicants will be notified of their application status by 31 March 2025. Further information can be found on the ICM 2026 <u>website</u>.

Please help us in disseminating this information to your colleagues and students.

We look forward to seeing you at ICM 2026!

Regards

**Christoph Sorger** 



October 16, 2024 IMU AO Circular Letter 8/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### **Membership in the IMU Nominating Committee**

#### Dear colleagues

This email is just for your information regarding the members of the IMU Nominating Committee (NC). See Circular Letter 3/2024 for additional information.

Recall that the composition of the NC is as follows:

- a. The President of IMU.
- b. The Chair (chosen by the IMU President).
- c. Three other persons (chosen at random from AO nominations).
- d. Two persons with experience of IMU (chosen jointly by the NC Chair and the IMU President).

On 6 September 2024, at the IMU Secretariat in Berlin, the random selection of members of the NC took place (see video).

We thank you for your nominations. The result of the random selection was:

Mohamed Majdoub (Tunisia) Matti Lassas (Finland) Nicola Fusco (Italy)

In addition, the chair of the NC, Helge Holden, and the IMU President, Hiraku Nakajima, chose

Meena Mahajan (India) Vera Serganova (USA)

as members of the NC.

Thus the 2026 Nominating Committee comprises:

Helge Holden (Norway, chair)
Nicola Fusco (Italy)
Matti Lassas (Finland)
Meena Mahajan (India)
Mohamed Majdoub (Tunisia)
Hiraku Nakajima (Japan, IMU President)
Vera Serganova (USA)

Emails to the NC should be addressed to Helge Holden at <a href="mailto:chair@nc26.mathunion.org">chair@nc26.mathunion.org</a>.

We will send out a Circular Letter regarding nominations for the various open positions in due time.

Regards

Christoph Sorger



October 25, 2024 IMU AO Circular Letter 9/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### **IMU Bulletin No. 75 (2023)**

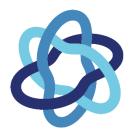
Dear colleagues

IMU Bulletin No. 75, reporting about IMU activities in 2023, is now available on the <a href="IMU website">IMU website</a>.

Please note that we do not intend to send out printed versions.

Regards

**Christoph Sorger** 



November 1, 2024 IMU AO Circular Letter 10/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### Call for nominations as President and Secretary General of the IMU

#### Dear colleagues

We are hereby inviting the Adhering Organizations (AOs) of the IMU and the respective Committees for Mathematics to nominate candidates for President and Secretary General of the IMU for the term 2027–2030.

The procedure is as follows:

Nominations will be considered by the Nominating Committee (NC) of the IMU. See Circular Letter 8/2024 for its composition. The procedure is described in the guidelines.

The NC is required to present slates of nominations to the AOs in preparation for the elections of the IMU Executive Committee, the Commission for Developing Countries, and the IMU representatives on the International Commission on the History of Mathematics at the General Assembly on 20–21 July 2026 in New York City, USA, where the election will take place.

The call for nominations will take place in two steps:

- 1. We now ask for nominations for the offices of President and Secretary General of the IMU.
- 2. The call for nominations for all other positions will be made by 1 September 2025.

Submissions must include a candidate's statement of willingness to serve if elected and a CV. CVs exceeding two pages in length will not be considered. Only electronic submissions are accepted.

Please send your nominations by **15 January 2025** to Helge Holden <a href="mailto:chair@nc26.mathunion.org">chair@nc26.mathunion.org</a> using the official email address of your Adhering Organization or Committee for Mathematics.

#### Regards

Christoph Sorger



November 13, 2024 IMU AO Circular Letter 11/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### **ICM 2026 Social and Cultural Events**

#### Dear colleagues

For ICM 2026 in Philadelphia, USA, Irene Fonseca (Chair) and Susan Friedlander (Co-Chair) of the ICM 2026 Subcommittee on Social and Cultural Events, are now inviting interested organizations to host social and cultural events.

Most activities will be held at the Pennsylvania Convention Center, conveniently located in the center of the city. Additionally, a number of other suitable venues for hosting proposed events have been identified.

Details on arrangements, estimated pricing, and the special event request form, can all be found on the <u>Social and Cultural Events page</u> at the ICM website.

Please note that your organization will be fully responsible for all costs associated with any event you choose to host.

If you have any questions or need assistance, please contact the Chair/Co-Chair of the Subcommittee on Social and Cultural Events.

The deadline for event submissions is 31 July 2025.

#### Regards

**Christoph Sorger** 



November 18, 2024 IMU AO Circular Letter 12/2024

To: The Adhering Organizations of the International Mathematical Union (IMU)

From: Christoph Sorger, IMU Secretary General

#### **Heidelberg Laureate Forum 2025**

#### Dear colleagues

The 12<sup>th</sup> Heidelberg Laureate Forum will take place in Heidelberg, Germany between 14–19 September 2025.

At the HLF, all winners of the Fields Medal, the Abel Prize, the ACM A.M. Turing Award, the Nevanlinna Prize/IMU Abacus Medal, and the ACM Prize in Computing are invited to attend. In addition, young and talented computer scientists and mathematicians are invited to apply for participation. The previous HLFs have been an exceptional success. The HLF serves as a great platform for interaction in the fields of mathematics and computer science.

Over the course of the week-long conference, young researchers will be given the possibility to connect with their scientific role models and find out how the laureates made it to the top of their fields.

Applications for participation at the 12<sup>th</sup> HLF are now open in three categories: Undergraduate/Pre-Master, Graduate PhD, and PostDocs.

#### The deadline for application is 11 February 2025, 11:59 p.m. Berlin time (CET/UTC+1)

The IMU Adhering Organizations and national mathematical societies can also nominate young researchers. Nominated persons get "priority treatment", but, since there may be too many nominations, they have no acceptance guarantee. Nominators need to register via the link <a href="https://application.heidelberg-laureate-forum.org">https://application.heidelberg-laureate-forum.org</a>, click on "Register as Nominator" and enter the organization code XXXXXXXX when registering. Please note that all previous login information and nominator accounts were deleted in accordance with German data protection regulations.

All applications are reviewed by an international committee of experts to ensure that only the most qualified candidates are invited. There are about 100 spaces available for each discipline of mathematics and computer science. All applicants will be notified by the end of April 2025 whether or not they are invited.

The IMU asks its Adhering Organizations to distribute this information among their national mathematical communities, if possible, through the newsletters of the national mathematical societies.

## Regards

Christoph Sorger

#### 5. The IMU Secretariat

The Secretariat of the International Mathematical Union has been permanently based in Berlin, Germany, at the <u>Weierstrass Institute</u> since January 2011. Following a positive evaluation of the work of the IMU Secretariat between 2011-2018, an unlimited Cooperation Agreement with WIAS was signed in 2018 (as approved at the 18<sup>th</sup> IMU General Assembly).

Under the supervision of the IMU Executive Committee, the Secretariat runs the IMU's day-to-day business and provides support for many IMU operations, including administrative assistance for the International Commission on Mathematical Instruction (ICMI) and the Commission for Developing Countries (CDC), as well as mainly technical assistance for the Committee on Electronic Information and Communication (CEIC) and the Committee for Women in Mathematics (CWM).

The IMU Secretariat also hosts the IMU Archive.



#### **IMU Secretariat staff:**

Dietmar Hömberg: Head of the Secretariat and IMU Treasurer (⊠ treasurer@mathunion.org)

Scott Jung: Manager of the Secretariat (manager@mathunion.org)

Lena Koch: ICMI/CDC Administration ( icmi.cdc.administrator@mathunion.org)

Mariusz Szmerlo: IMU Accountant (⋈ accountant@mathunion.org)

Birgit Seeliger: IMU Archivist (⋈ archivist@mathunion.org)

Frank Klöppel: IT and Technical Support (

technician@mathunion.org)

Frank Klöppel: IT and Technical Support (

technician@mathunion.org)

Vanessa Chung: Community/Grant Administration (⋈ community@mathunion.org)

IMU Secretary General:

Christoph Sorger (⊠ secretary@mathunion.org)

#### Address of the IMU Secretariat:

International Mathematical Union Secretariat Hausvogteiplatz 11a 10117 Berlin, Germany Phone: +49 30 20372-430

Fax: +49 30 20372-439

E-mail: office@mathunion.org

### 6. Impressum

International Mathematical Union

Secretariat

Hausvogteiplatz 11a

D 10117 Berlin, Germany

Phone: +49 30 20372-430

Fax: +49 30 20372-439

E-mail: office@mathunion.org
URL: https://www.mathunion.org

#### © 2024 International Mathematical Union

Produced and printed with the support of WIAS (Weierstrass Institute for Applied Analysis and Stochastics).

The International Mathematical Union subscribes to open access policy; reprint, translation, presentation, excerpt of text or any other form of reproduction is permitted on the condition that proper citation is made.