



## ICMI Newsletter March 2022

### Editors:

[Jean-Luc Dorier](#) (ICMI Secretary General)

[Merrilyn Goos](#) (ICMI Vice President)

[Lena Koch](#) (ICMI Administrative Manager)

**The ICMI Newsletter has new publishing dates:**  
15th June, 15th September, 15th December and 15th  
March.



### From the desk of the ICMI President

As this issue of the Newsletter is being published, I feel saddened and extremely concerned about the recent developments in Ukraine and Russia. In view of the escalating situation, IMU has decided to make rearrangements for the 2022 International Congress of Mathematicians (ICM) and the IMU General Assembly meeting preceding ICM, scheduled to take place in Saint Petersburg.

IMU has issued a statement regarding the ICM and IMU GA [here](#).

Both Ukraine and Russia are members of ICMI. My deepest sympathy goes to our Ukrainian colleagues and our thoughts are with our Russian colleagues who love peace and are against war. At this time of conflicts, let's remember that the theme for this year's **International Day of Mathematics is "Mathematics Unites"**. I take this opportunity to express our solidarity with the mathematics and mathematics education communities in Ukraine, and with all the people in Ukraine.

Frederick Leung, ICMI President

### Editorial - From the desk of Mercy Kazima, member-at-large of ICMI EC 2021-2024.



I am delighted and honored to serve as member-at-large in the ICMI EC (2021-2024). My interest in ICMI started the first time I learnt about it: this was in 2004 during my post-doc research fellowship at the University of the Witwatersrand in Johannesburg, South Africa. My post-doc host was Jill Adler who at the time was the Vice President of ICMI (2003-2006). Among other things, I learnt from her about ICMI, its objectives and activities. During that time, I had the chance to meet the other Vice President of ICMI, Michèle Artigue (France) who visited the University of the Witwatersrand and gave an inspiring presentation. I participated in organizing the first ICMI regional congress in Africa which was held in 2005 at the University of the Witwatersrand in Johannesburg, South Africa. My interest grew even more after my first experience and participation in ICME 11 in 2008 in Monterrey, Mexico. I was very excited about ICMI and its activities and I wondered why I only got to know about it in 2004. This is what drives me to join others in publicizing ICMI in Africa and encouraging participation of

Africa in ICMI activities, as one of the objectives of ICMI is to promote mathematical education around the world.

As a new member at large in the EC, I am delighted to be part of, and work with, a group of experienced scholars who are passionate and dedicated to achieving the goals of ICMI. It is a lot of work but at the same time it is exciting and interesting work. The first year has been wonderful although we have met only virtually. I look forward to the day that a face-to-face meeting will be possible and I get to meet everybody in the EC and know them better. Hopefully this will happen before the end of our term.

One of my responsibilities is being the ICMI EC liaison person for Africa ICME congress (AFRICME). This is a responsibility that I am taking with a lot of pride and enthusiasm, as my other responsibilities. As I reported in the November 2021 newsletter, AFRICME 6 took place in October 2021 as a virtual conference hosted by the University of Rwanda...

[READ THE FULL EDITORIAL](#)

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## Launch of ICME-15 - The future of global mathematics education is in our hands



**Launch of ICME-15**  
The future of global mathematics education is in our hands

by Kim Beswick, Convenor of ICME-15 and Will Morony, Chair of the Local Organizing Committee

Monday 14 March 2022, Time 4.00-5.30 pm (AEDT time; 0500-0630 UTC), Virtual, by Zoom

We're excited to announce the launch of the 15th International Congress on Mathematics Education (ICME-15). Join us as we share our aspirations and our vision for the journey ahead at this special event on Monday 14 March, the International Day of Mathematics.

ICME-15 will bring together our highly-engaged mathematics community including mathematics educators, mathematicians, researchers, teachers and resource producers from around the world for an eight-day Congress on Mathematics Education in Sydney in 2024. ICME-15 Bid Leader and ICME-15 Convenor Professor Kim Beswick, Head of School of Education, University of New South Wales, said the future of global mathematics education is in "our hands and we offer our full commitment to help to make an impact on this critical issue. Together, we can achieve great things".

We hope you are able to join others from around the world to be the first to learn something about what to expect at ICME-15 in two years time. We are excited – you will be too!

To register please visit the [official ICME-15 website](#).

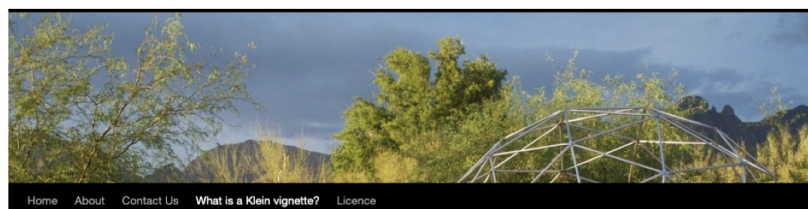
[READ THE FULL ANNOUNCEMENT](#)

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## Klein Project

### Klein Project Blog

Connecting mathematical worlds



Hans-Georg Weigand, Universität Würzburg, Germany reports about the [Klein Project](#) which is an IMU/ICMI project with the aim of producing mathematics resources for secondary

teachers on contemporary mathematics. The project was inspired by Felix Klein's book *Elementary Mathematics from a Higher Standpoint*, first published more than 100 years ago. A new edition of the three volumes appeared in 2016. It is intended as a stimulus for mathematics teachers, to help them to make connections between the mathematics they teach, or can be asked to teach, and the field of mathematics, while taking into account the evolution of this field over the last century. See also the book *The Legacy of Felix Klein* (2019). The Klein Design Group (established 2008) would like to transfer Felix Klein's idea into the present time. Most recent and current activities of the Klein Project are the maintenance of the [Klein Project Blog](#), the Klein Project Workshop – Vignettes in Practice – which was held at ICME 14 in Shanghai in July 2021. Moreover, there is an ongoing collaboration with other projects like the [Snapshots Project](#) in Israel, the French project "[Image des maths](#)" or the project "Mathematical Liceci" in Italy.

[READ THE REPORT](#)

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## Invitation to celebrate the International Day of Mathematics 2022



One of the aims of the International Day of Mathematics (IDM) is to convey the love of mathematics to young people and the messages that mathematics is everywhere and that it is useful and beautiful. The theme chosen for IDM 2022 is: **Mathematics Unites**. The dream is that, in addition to large public events, all teachers celebrate in their classroom. Schools can also organize larger events.

### **We need your help to invite schools around the world to celebrate!**

Please forward the invitation letters to the school networks of your country. The letters are available in Arabic, English, French, Portuguese, Spanish and Turkish on the [IDM website](#). Contact: Christiane Rousseau: [info@idm314.org](mailto:info@idm314.org).

[READ THE FULL ANNOUNCEMENT](#)

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## Once upon a time... Historical vignettes from the Archives of ICMI: The Aarhus ICMI-seminar on the teaching of geometry

*Bernard R. Hodgson, Curator of the ICMI Archive writes about the Aarhus ICMI-seminar on the teaching of geometry organized at the University of Aarhus on May 30 to June 2, 1960.*

In some way, a small gathering, with 30 participants from 10 European countries. But still a rich testimony both about trends of the time related to the "elementary teaching of geometry".

[READ THE VIGNETTE](#)

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## Mathematics for action: Supporting Science-Based Decision Making

*Merrilyn Goos, ICMI Vice President reports about Mathematics for Action: Supporting Science-Based Decision Making (MfA).* The tool kit consists in a collection of lively two-page briefs. It will be Open Access. As a follow-up of the year-long initiative Mathematics of Planet Earth 2013 (MPE2013), the briefs highlight the role of mathematics in addressing the SDGs of the UN 2030 Agenda in three non exclusive ways: Mathematics Success Stories; Mathematics Illuminated; Grand Challenges and Opportunities for Mathematics.

The MfA briefs promote mathematically-grounded solutions to global challenges. The collection explores a range of topics, including poverty maps, epidemics, ecosystem dynamics, biodiversity conservation, invasive species, climate modelling and climate change,

extreme natural events, sustainable management of natural resources.

The tool kit will be virtually launched on March 14 2022 from 11:00 to 12:00 Paris time. During this launch ICMI Vice Presidents Marilyn Goos and Anjum Halai will present their brief: "Teaching Mathematics: Mathematics Education for Sustainable Development". [Details of the launch to be posted.](#)

[READ MORE](#)

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## Call for ICMI Awards

### Call for Nominations for the 2024 ICMI Emma Castelnuovo Award

Deadline for nominations: 30 November, 2022

The Emma Castelnuovo Award recognizes outstanding achievements in the practice of mathematics education consistent with ICMI's principles:

- the development of mathematical education at all levels and;
- the promotion of reflection, collaboration, exchange, and dissemination of ideas on the teaching and learning of mathematics from the primary to the university level.

The Emma Castelnuovo Award honors an individual, or a small team of individuals, for work in the development and implementation of exceptionally excellent and influential work in the practice of mathematics education.

More information can be found on the [ICMI Award Page \(Emma Castelnuovo\)](#).

### Felix Klein Award

The Felix Klein medal is awarded for life-time achievement in mathematics education research. This award acknowledges senior scholars who have made field-defining contributions over their professional careers. Awardees will have had an impact both at the national level, within their own countries, and at the international level. We have valued in the past those candidates who not only have made substantial research contributions, but also have introduced new issues, ideas, perspectives, and critical reflections. Additional considerations have included leadership roles, mentoring, and peer recognition, as well as the actual or potential relationship between the research done and improvement of mathematics education at large, through connections between research and practice.

### Hans Freudenthal Award

The Hans Freudenthal medal acknowledges the outstanding contributions of an individual's theoretically robust and coherent research program, which has had a clear impact on our research community. It honors a scholar who has initiated a new research program and has brought it to maturation over the past 10 years. Freudenthal awardees should also be researchers whose work is ongoing and who can be expected to continue contributing to the field. In brief, the criteria for this award are depth, novelty, sustainability, and impact of the research program.

As of 2024 all three awards will be given quadrennially, during the year that an ICME is held.

More information can be found on the [ICMI Award Page \(Felix Klein and Hans Freudenthal\)](#).

We recognize that it's a lot of work to put together a compelling nomination, but please do!

The two ICMI Awards Committees can only choose recipients from officially submitted nominations for the current round, accompanied by full documentation.

Thank you for considering this call seriously. We look forward to receiving your nominations.  
*Prof. Em. Helen Forgasz and Prof. Alan Schoenfeld*  
on behalf of the ICMI Emma Castelnuovo Awards Committee and the ICMI Klein and Freudenthal Awards Committee

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## News from ICMI Country Representatives and Affiliated Organizations

### Short report on CERME12, held Feb. 2-5 in "virtual Bolzano"

# CERME12

By Carl Winslow, president of ERME

CERME12 was planned to be held in February 2021, but had to be replaced by a “virtual pre-CERME12” event, hosted in February 2021 with great success at the University College London. The “real” CERME was held virtually in February 2022. CERME12 had 27 “Thematic Working Groups”, covering a wide range of specialties in the field. In the TWGs, contributed papers were discussed by the participants. The online congress rewarded the organizers with great success. A total of 918 participants from 48 countries experienced a rich scientific program, with no major technical difficulties.

[READ THE FULL REPORT](#)

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## News from the Inter-American Committee of Mathematics Education (IACME)

By Angel Ruiz, president of IACME

### Special issue in Tribute to Ubi D'Ambrosio

Cuadernos de Investigación y Formación en Educación Matemática [Journal of Research and Training in Mathematics Education] of the University of Costa Rica published a special issue in November in tribute to Ubiratan D'Ambrosio. This issue includes works by D'Ambrosio that had been published in Cuadernos at various times, but also others collected in other instances of publication. The special number can be accessed:

- [Complete](#) (one PDF)
- [At the University of Costa Rica Journal website.](#)

### Tercer Congreso de Educación Matemática de América Central y El Caribe [Third Congress of Mathematics Education for Central America and the Caribbean]

This third congress of the Mathematics Education Network for Central America and the Caribbean was held virtually with great success on November 5, 12 and 24-26, 2021. It had the registration of more than 800 people from 26 countries, and 50 guest speakers. It was organized in Costa Rica by the Mathematics Education Reform in Costa Rica Project.



[READ MORE](#)

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## News from the European Society for Research in Mathematics Education (ERME)

### CERME13

**CERME13**, will take place in Budapest, Hungary from July 9 until 14, 2023, 1½

### ETC11

**ETC11** – ERME Topic Conference 11, on University Mathematics Education – will be

years after CERME12 and 1½ years before CERME14, planned in February 2025. [Find out more.](#)

## CERME14

**CERME14** is still far ahead, as it is to be held in early 2025, but the ERME board has now issued a [call for bids to host](#) this major event.

The deadline to apply is April 1, 2022. Watch the [erme.site](#) for other forthcoming news!

held October 12-15, 2022, in Hanover, Germany. See the [first announcement here](#).

## ETC12

**ETC11-** ERME Topic Conference 12, on Language in the Mathematics Classroom – will be held in Oxford, United Kingdom, September 7-10, 2022. See the [first announcement](#) here.

## YESS12

**12th YERME summer school** will be held in Linz, Austria, August 21-27, 2022. [See the first announcement here.](#)  
[Find out more here.](#)

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## Conferences to come



**Mathematical  
Confluences  
and Journeys**  
Launceston, 3-7 July 2022

*From Greg Oates*

We are excited to announce that the MERGA 44 annual conference will be held in Australia, on the University of Tasmania's Inveresk Precinct Campus, from the 3rd to 7th July 2022, in Launceston, Tasmania.

[Conference Welcome \(Youtube\)](#)

[Conference Website](#)

We are optimistic that this conference can be our first opportunity to meet physically with our MERGA colleagues in several years. However, we recognize that there remains ongoing uncertainty with respect to travel restrictions, and will thus be planning for a hybrid conference, with online access for those unable to travel, to both attend other presentations and present themselves.

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## 3rd Conference of the Association de Didacticiens des Mathématiques Africains (ADiMA3) in Tunisia at Hammamet - 15 - 20 August 2022

ADiMA is proud to announce the launch of the 3rd conference « ADiMA3 » under the auspice of l'Association Tunisienne de Géométrie (ATG) and l'Université de Tunis el Manar (UTM) - 15 - 20 August 2022 Hotel Chich Khan, Hammamet - Tunisia.

This 3rd conference is part of the activities of the project that was initiated by an international team of African researchers in mathematics didactics. This research project is intended to contribute to the development of research in didactics of mathematics and science and technology at all levels of education, with a particular concern for the development of new research in these areas and for dialogue with mathematicians, physicists, computer scientists and engineers.

**Theme of the conference: Interdisciplinary approach in the teaching and learning of mathematics: what projects and what issues for Africa?**

The website is in progress. For information please contact: [rahim.kouki@ipeiem.utm.tn](mailto:rahim.kouki@ipeiem.utm.tn)

We invite you to reserve the dates of August 15 to 20, 2022 for your participation in this symposium and we kindly ask you to disseminate the information widely. ADiMA is an ICMI Affiliated Regional Organization.

Read more [here](#).

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## 9th European Summer University on The History and

# Epistemology in Mathematics Education

Dates: 18-22 July 2022

Location: University of Salerno – Department of Mathematics - Fisciano (SA), Italy

More information can be found on the [conference website](#) and the [ICMI News page](#).

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## Annual Conference of the International Group for the Psychology of Mathematics Education, PME45

Dates: July 18 to 23, 2022

Location: Alicante, Spain

The First Announcement can be downloaded from the [conference website](#).

See also the conference page on [Facebook](#), [Twitter](#), and [Instagram](#), where news and reminders are posted.

You may pre-register and make submissions at the [ConfTool site](#).

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## Seventh International Conference on the History of Mathematics Education (ICHME-7)

Dates: September 19. – 23, 2022

Location: University of Mainz, (Germany)

Abstracts of proposed contributions must be submitted before February 1, 2022

More information can be found on the [ICHME-7 conference website](#) and the [ICMI News page](#).

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## 12th International Mathematical Creativity and Giftedness Conference (MCG12)

The conference will be held in Las Vegas, Nevada, USA from September 25 – 28, 2022.

Considered the premier conference of its type in the world, this conference will have a focus on mathematical expertise and innovation. The opening session on Sunday will feature Karl Schaffer and Erik Stern. With a special focus on thorough, yet playful, integration of dance and mathematics, their presentations at the conference will include opportunities to experience physical, creative problem solving, as well as sharing insights that they have gained through their work together and separately. Keynote speakers include Yeap Ban Har from Singapore, Zalman Usiskin from the United States, and Marianne Nolte from Germany. Electronic proceedings will be available prior to the conference.

See the [conference website](#) for more information.

Contact Linda Sheffield ([sheffield@nku.edu](mailto:sheffield@nku.edu)) with any questions.

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## World Federation of National Mathematics Competitions

WFNMC-09, will be held from 19 – 25 July, 2022, Sofia, Bulgaria

More information on the [WFNMC9 conference website](#).

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## ICTMA20

ICTMA20 will be held in Würzburg, Germany.

Revised dates for ICTMA20, delayed due to the worldwide pandemic: 26 - 30 September 2022.

[ICTMA20 website](#)

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## CIBEM - Congresso Iberoamericano de Educação Matemática / Iberoamerican Congress of Mathematics

## Education (CIBEM)

Dates: December 5 to 9, 2022

Location: CIBEM IX will be held in the city of Sao Paolo, Brazil

IX CIBEM is planned as a space open to all current perspectives, theoretical and conceptual approaches that permeate both empirical work and theoretical reflection of those who practice Mathematics Education. The expected number of participants is 1200, awaiting the attendance of researchers, professors and undergraduate and graduate students interested in Mathematics Education.

More information on the [CIBEM2022 website](#).

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## EMF 2022

The next conference of the Espace Mathématique Francophone (EMF 2022) will take place from Monday 12 to Friday 16 December, 2022 in Cotonou (Bénin). The conference will be preceded by the youth project from Thursday 8 to Sunday 11 December, 2022.

Depending on the evolution of the pandemic, it is possible that some of the scheduled activities will take place in hybrid mode. The local organizing committee is studying this possibility and is trying to find ways to make it work. We will keep you informed of the evolution of this organization.

More information on the [EMF website](#).

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## CIAEM

CIAEM (Conferencia interamericana de educacion mathematica)/ IACME Inter-American Conference on Mathematics Education

CIAEM/IACME XVI will be held from July 30 -August 4, 2023 in Peru.

More information on the [CIAEM/IACME website](#).

## IMU Secretariat

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