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ICIAM Dianoia: The Newsletter of the International Council for Industrial and Applied Mathematics

A year of mathematics, a year ahead

As another year comes to an end, it is a good moment to look back at what we have built together and, perhaps even more importantly, to look ahead.

Throughout 2026, ICIAM Dianoia continued to bring together news, events, research, people and initiatives from across the international mathematical community. This would not be possible without the active participation of the institutions that make up the ICIAM community. Throughout the year, colleagues from member institutions shared events, achievements, publications and opportunities, helping us reflect the diversity and vitality of mathematics being developed around the world.

The strong response we received for this final edition of 2026 is particularly encouraging. The volume and variety of contributions remind us that mathematics is not only advancing through individual research results, but also through a remarkably broad network of institutions, researchers and initiatives working across countries, disciplines and applications.

This collective effort is especially significant as we approach 2027, when the international mathematical community will gather for ICIAM 2027. One of the major international congresses devoted to applied and industrial mathematics, the event will once again provide a unique opportunity for researchers from different areas and regions to meet, exchange ideas and strengthen collaborations. For ICIAM, it is also an opportunity to reaffirm its role in connecting the mathematical sciences with the challenges and opportunities of a rapidly changing world.

The arrival of ICIAM 2027 gives particular meaning to the work we have been doing throughout this year. Every contribution to Dianoia, whether a report about a conference, a research achievement, an initiative involving industry, an award, a new publication or an event — is part of a larger picture. Together, these contributions show the scale of the mathematical enterprise and the many ways in which mathematics contributes to science, technology, industry and society.

Looking ahead, there is much to anticipate. But there is also much to continue building. We hope that Dianoia will remain a space where the ICIAM community can share its work, discover what colleagues are doing elsewhere and, perhaps, find the starting point for new conversations and collaborations.

Thank you to all the institutions, researchers and colleagues who contributed to Dianoia during 2026. Your participation is what makes this publication genuinely international and representative of our community.

We look forward to continuing this work together in 2027 — a year that promises to be an important one for ICIAM and for mathematics around the world.

José Alberto Cuminato
Editor, Dianoia

Dear ICIAM colleagues and friends,

The past few months have been particularly exciting for the international mathematical community. In addition to several important international meetings, we have witnessed remarkable developments in artificial intelligence that are beginning to transform the way mathematical research is conducted. These developments raise fundamental questions about the future of our discipline, but they also create extraordinary new opportunities.

In July, I had the pleasure of attending the General Assembly of the International Mathematical Union (IMU) in New York, where I presented a report on ICIAM's activities over the past four years. Preparing and presenting this report was a valuable opportunity to reflect on how much our organisation has developed. ICIAM is no longer simply associated with its major congress every four years. Through its committees, support for conferences and researchers, international collaborations, outreach initiatives and engagement with education and policy, ICIAM has become an increasingly active organisation throughout the entire congress cycle. It was encouraging to share these achievements with our colleagues from the wider mathematical community.

I also attended the SIAM Annual Meeting in Cleveland in July and, more recently, the CSIAM Annual Meeting in Lanzhou, China, in early October. Both meetings demonstrated once again the vitality and diversity of industrial and applied mathematics. In Lanzhou, I had the opportunity to deliver a public lecture entitled *Real and Artificial Intelligence: The Changing Role of Mathematics in Scientific Computing*.

Unsurprisingly, artificial intelligence featured prominently in this lecture, as it does in so many scientific discussions nowadays.

Indeed, recent developments have been nothing short of spectacular. In September, OpenAI announced an AI-generated proposed solution concerning the famous Navier–Stokes Millennium Prize Problem, involving an unprecedented computational effort. Then, in early October, OpenAI released no fewer than 722 AI-generated mathematical manuscripts, organised into 372 groups of related results, addressing a wide variety of mathematical problems. These developments illustrate how rapidly AI is advancing into areas of mathematics that, until recently, seemed to require exclusively human creativity and insight. Of course, independent verification and careful mathematical assessment of these results remain essential.

Such developments have understandably led to considerable discussion, and sometimes concern, within the mathematical community. What will the role of mathematicians be if AI systems can increasingly discover proofs, construct counterexamples and solve difficult mathematical problems? Will there still be enough interesting research questions for the next generation?

ICIAM has considered these questions very carefully. In September, following extensive discussions and preparations, we published a statement entitled *Mathematics and Artificial Intelligence: Discovery, Understanding and Trust*. The statement is available on the ICIAM website, and a summary is included in this issue of *Dianoia*. I warmly encourage everyone to read it.

Our central message is both clear and positive: **the age of artificial intelligence creates not less need for mathematics, but more.**

AI can accelerate mathematical discovery enormously, but mathematics is about much more than producing correct answers. A proof is not necessarily the end of a mathematical story. We want to understand *why* something is true, how a result connects to existing knowledge, what its limitations are, and which new questions it raises. Even counterexamples and unsuccessful approaches can lead to important mathematical insights. Human creativity, judgement and understanding therefore remain indispensable.

There is also another dimension that is particularly important for our community. Mathematics is not only a discipline in which AI can achieve impressive results; it is also essential for making AI itself more reliable, efficient and trustworthy. Mathematical modelling, numerical analysis, optimisation, uncertainty quantification and model reduction provide powerful tools for improving AI methods. In scientific computing and engineering, we need models that respect physical laws, preserve essential mathematical structures and produce results whose reliability can be assessed. Combining established mathematical knowledge with machine learning offers enormous opportunities for scientific discovery and industrial innovation.

This brings me to a message that I consider particularly important for young mathematicians and researchers. **Do not be discouraged by these developments!** The future of mathematics is not disappearing; it is changing, and potentially becoming even more exciting. We should embrace the new possibilities offered by AI, learn to use these tools intelligently, and adapt the way we conduct research. Rather than competing with AI at tasks it can perform increasingly well, we should concentrate on asking the right questions, developing new concepts and methods, understanding results, and connecting mathematics to important scientific and societal challenges.

As I like to say: *Real intelligence is needed to make artificial intelligence work.*

ICIAM and its member societies have an important responsibility in this transformation. We should help establish standards for verification, transparency, attribution and reproducibility, while encouraging education and research at the interface of mathematics and AI. Above all, we should ensure that mathematicians are actively involved in shaping these developments, rather than simply observing them.

Finally, let me turn to something I am very much looking forward to: **ICIAM 2027, which will take place in The Hague, the Netherlands, from 12–16 July 2027.** Preparations are progressing very well, and registration is now open! The congress, with its theme *Mathematics for a Sustainable Future*, promises to be a wonderful gathering of our international community. Contributions to the scientific programme can still be proposed, with the deadline for abstract submissions in December 2026.

I sincerely hope that many of you will join us in The Hague next year. It will be an excellent opportunity to exchange ideas, strengthen international collaborations, celebrate the achievements of our discipline, and discuss the exciting challenges and opportunities that lie ahead.

I look forward to welcoming you to The Hague in July 2027!

With warm regards,

Wil Schilders
President of ICIAM

Newsletter contents

1. Interview with Ian Sloan: One of the First Presidents in ICIAM's History
2. Registration for ICIAM 2027 is Open
3. FROM THE INTERNATIONAL SCIENCE COUNCIL: Appeal to strengthen the voice of science as a global public good
4. ECMI highlights research, training and connection with industry in 2026
5. Brazil hosts the 9th edition of LAWOC bringing Latin American researchers together and strengthening scientific cooperation
6. 2026 EMS/ECMI Lánczos Prize recognises the FEniCS Project
7. EMS Council 2026: new leadership elected for 2027-2030
8. ANZIAM announces upcoming events and recognises excellence in mathematics
9. CSIAM 2026 in Lanzhou Strengthens International Exchange and Support for ICIAM 2027
10. Introduction to CSIAM Journals
11. Coming Soon
12. You might also want to know

NEWS

Interview with Ian Sloan: One of the First Presidents in ICIAM's History

Science Faculty, UNSW Sydney

Ian Sloan belongs to the first generation of ICIAM presidents and served as President of the Council from 2003 to 2007, during one of the organisation's early stages of institutional consolidation. An Emeritus Professor at the University of New South Wales in Australia, Sloan also chaired the International Programme Committee for ICIAM 2003, held in Sydney.

In this interview, conducted by journalist Raquel Vieira, he reflects on ICIAM's early days, the objectives that guided its establishment, and the challenges of bringing industrial and applied mathematics closer to other fields of knowledge, industry, and society.

(Raquel Vieira) Before turning to ICIAM, could you tell us a little about how you became a mathematician? Your father was a mathematics teacher, did he play a role in developing your interest in mathematics and in your decision to pursue it professionally?

(Ian Sloan) Certainly my father played an important role, but actually it took me a long time to become a mathematician. My first degree was in Physics, and (perhaps because no-one told me that research in mathematics was possible) my subsequent PhD was in atomic phyiscs. I then worked in theoretical nuclear physics for a decade before switching to computational mathematics. Until the mid 1970s I had never been to a conference or department (other than my own) with Mathematics in the title.

(Raquel Vieira) In 1986, four societies (GAMM, IMA, SIAM, and SMAI) decided to join forces to organise a major international congress on industrial and applied mathematics. What was happening within the mathematical community at the time that made closer cooperation among societies from different countries necessary? What vision lay behind this first international initiative?

(Ian Sloan) I was not involved with the first ICIAM, but Robert O'Malley, who was a central figure in CICIAM, visited Australia around that time, and talked to me (I was then Chair of the Division of Applied Mathematics of the Australian Mathematical Society), suggesting that Australia should become a member of CICIAM. I was immediately excited by the idea, being an instinctive believer in the benefits of internationl cooperation. But I felt that membership was hardly possible under that existing cumbersome name. So I initiated discussions that led to the creation of ANZIAM (Australia and New Zealand Industrial and Applied Mathematics), and in short order to membership of CICIAM.

(Raquel Vieira) In 1999, CICIAM took a decisive step by becoming ICIAM, with its own structure and the intention of developing activities that would extend beyond holding a congress every four years. You chaired the International Programme Committee for ICIAM 2003 in Sydney and then became President of ICIAM. What did organising that congress teach you about the international applied mathematics community, and did that experience influence your priorities as President? At that time, what were the main priorities and challenges in transforming an organisation established around congresses into a truly international council for industrial and applied mathematics?

(Ian Sloan) It was an unqualified privilege to chair the International Program Committee for ICIAM 2003 in Sydney, as it gave me a wonderful opportunity to establish links with members of our community from all parts of the world. Since I was involved in the Board meetings over that period, it was also an excellent training ground for my subsequent (at that time unexpected) term as President.

My first priority as President was to establish an ICIAM website, believing that an organisation without a website does not really exist. Another priority was to encourage growth in memberhip, epspecially from unrepresented parts of the world, since in my view ICIAM needed to become truly international. One of the most pleasing develoments of my time as President was finding a way to bring into ICIAM a wider class of mathematiical societies, such as the American Mathematical Soicety, through the introduction of Associate Membership, since in my view mathematicians need to work together. In a similar way, I was pleased to have representatives of the International Matheatical Union present at ICIAM Board meetings.

(Raquel Vieira) Four decades after ICIAM's first congress, applied mathematics is now present in fields that may have been difficult to envision during the Council's early years: from artificial intelligence and data science to the modelling of complex systems. What has changed most profoundly in the relationship between mathematics, science, industry, and society since ICIAM was established?

(Ian Sloan) As the question implies, Applied Mathematics has proved to be remarkably agile in its ability to move into new areas. (The growth in the number of SIAM journals is one manifestation of this agility.) The challenge for our community is that the discipline needs to stay closely connected to so many other areas, such as engineering, physics, biology, finance, statistics, analysis and more.

(Raquel Vieira) Applied mathematics is becoming increasingly integrated into innovation, decision-making, and technological development. However, translating a real world problem into a mathematical one, and then turning the findings of that investigation into a practical solution, requires much more than mathematical knowledge alone. In your view, what are the key elements needed for this connection between mathematics, science, and application to deliver tangible results?

(Ian Sloan)I have perhaps two answers. The first is that in my view education needs to be broad. (In my case I remain very pleased with my years of education in physics; they were in no sense wasted.) The second answer is that we all need to be prepared to keep on learning: we can never know enough. "Never stop learning" is my motto.

(Raquel Vieira) Looking ahead, what challenges and opportunities should engage the international industrial and applied mathematics community? And what role can ICIAM play in continuing to bring mathematicians, industry, governments, and society together to develop solutions to increasingly complex problems?

(Ian Sloan) Machine learning and artificial intelligence already present challenges to applied mathematics, in part because of a lack of real understanding as to why they often work so well, and sometimeds not; in part because of the almost hysterical over-reaction at the present time in reporting on AI; and in part because of the temptation of funding agencies to divert funds from more traditional approaches to the magical promises of AI.

(Raquel Vieira) In 2027, ICIAM will celebrate 40 years since its first congress. Looking back over those four decades, what developments in ICIAM give you the greatest satisfaction? And, as ICIAM moves into its next 40 years, is there something from its original spirit or mission that you believe it should particularly preserve?

(Ian Sloan) For me the greatest satsfaction comes from the growth in membersip of ICIAM (I counted today around 65 members in all categories), and more broadly, the increasing recognition that applied

and industrial mathematics receive, as a result I believe in the activities and existence of ICIAM.

Summary

Registration for ICIAM 2027 is Open

Join the global industrial and applied mathematics community at ICIAM 2027, taking place from 12-16 July 2027 in The Hague, the Netherlands. Under the theme Mathematics for a Sustainable Future, the congress will bring together researchers, educators, students and industry professionals from around the world. Early registration fees are available until 9 February 2027. Secure your place today and be part of the world's leading congress on industrial and applied mathematics.

Register now for ICIAM 2027!
https://iciam2027.org/registration/

Reminder: Submit Your Contribution

The Call for Submissions is open and we invite the international applied mathematics community to contribute to the scientific programme of ICIAM 2027. Participants may submit either a Mini Symposium Proposal or a Poster Presentation Abstract. Share your latest research, connect with colleagues from around the world and help shape a programme that reflects the breadth and impact of industrial and applied mathematics. The submission deadline is 7 December 2026.

Submit a Mini Symposium Proposal or Poster Presentation Abstract https://iciam2027.org/call-for-abstracts/

Discover Industry Day

The Industry Day will highlight how mathematics helps solve real-world challenges faced by companies and societal organisations. Through challenge pitches, company presentations and interactive discussions, participants will discover how modelling, optimisation, simulation and data-driven methods create value across a wide range of sectors. Whether you are an academic, practitioner or industry representative, Industry Day offers an excellent opportunity to build new connections and explore future collaborations.

Learn more about the Industry Day
https://iciam2027.org/program/industry-day/

Important Dates

The first important deadline for ICIAM 2027 is fast approaching. 7 December 2026 is the submission deadline for Mini Symposium Proposals, Poster Presentation Abstracts and Grant Applications. If you are planning to contribute to the congress programme or apply for financial support, now is the time to start preparing your submission.

Registration open: *Now*
Deadline Call for Submissions: **7 December 2026**
Deadline Grant Application: **7 December 2026**
Deadline Early-bird Registration: **9 February 2027**
Deadline Regular Registration: **14 June 2027**

Stay Connected with ICIAM 2027

Want to stay informed about programme developments, invited speakers, important deadlines, grants, registration updates and other congress news? Sign up for the ICIAM 2027 mailing list and receive the latest updates directly in your inbox as preparations for the congress continue.

Subscribe for updates about ICIAM 2027
https://cbd.eventsair.com/iciam-2027-contact-store/contact-form/Site/Register

Summary

FROM THE INTERNATIONAL SCIENCE COUNCIL: Appeal to strengthen the voice of science as a global public good

A new international appeal calls for connected, joint action in support of science and its contribution to global wellbeing. The Appeal urges greater cooperation across disciplines, institutions and borders, stronger investment in research, education and innovation, and a renewed commitment to ensuring science serves as a global public good.

ISC members and their members, as well as the broader scientific community are encouraged to sign the Appeal and join the call to strengthen the voice of science:

https://appealforscience.com/

Summary

ECMI highlights research, training and connection with industry in 2026

Photo by Prof. Dr. Audrius Kabasinskas

The agenda of the European Consortium for Mathematics in Industry (ECMI) in 2026 was marked by initiatives that reinforced its work in research, student training, and bringing mathematics closer to the challenges faced by industry and society. Among the highlights of the year were the 23rd ECMI Conference on Industrial and Applied Mathematics, held in Lithuania, and the ECMI Modelling Week, in Lund, Sweden.

Held at Kaunas University of Technology (KTU) in Lithuania from June 29 to July 3, ECMI 2026 brought together 163 researchers, industry representatives and students to share recent research, exchange experiences and strengthen collaboration between academia and industry.

The scientific programme featured plenary lectures by internationally recognised researchers, addressing topics such as causal inference, neurodegenerative diseases, topological data analysis, plasma fusion, cybersecurity, nonlinear dynamical systems, optimisation and artificial intelligence in the energy transition, as well as integrated risk management in the era of financial innovation. The lectures were complemented by parallel sessions and minisymposia, covering a wide range of research developments in industrial and applied mathematics.

One of the highlights of the programme was Industry Day, dedicated to showing how mathematics can contribute to solving concrete problems faced by industry and the public sector. Industry representatives presented examples of how mathematics, data analysis, modelling, optimisation and artificial intelligence support innovation, digital transformation and decision-making. The programme also included the panel "*Artificial Intelligence: Opportunities and Challenges for Science, Education and Industry*", which discussed the growing role of AI in research, higher education and business.

The conference also featured a lecture by Garth Wells, winner of the 2026 EMS/ECMI Lanczos Prize. Wells presented the FEniCS Project, an open-source computing platform that has become one of the leading tools for finite element computation.

Excellence in industrial mathematics was also recognised during the event through ECMI's awards. The Anile-ECMI Prize, awarded for the best doctoral thesis, was presented to Mattia Corti of Politecnico di Milano and Maximilian Gießler of Offenburg University. The Hansjörg Wacker Memorial Prize, for the best master's thesis, was awarded to Jad Mounayer of the University of Oxford. The awards highlight the contributions of early-career researchers to the development of industrial mathematics.

The next ECMI conference will take place in September 2028 in Kaiserslautern, Germany.

ECMI Modelling Week

The educational dimension of ECMI was also present in 2026 with ECMI Modelling Week, held in Lund at the end of June. The event brought together students, instructors and academic mentors for an intensive week of collaborative problem-solving in industrial and applied mathematics.

Working in international teams, participants tackled real-world challenges inspired by problems from industry and applied research. Throughout the week, they had the opportunity to develop mathematical models, use computational and analytical tools, and present the results of their work.

As one of ECMI's main educational activities, Modelling Week combines practical learning, teamwork and the application of mathematics to concrete problems. The Lund edition continued this tradition, providing young researchers with an environment in which to develop their modelling skills and engage with issues of industrial relevance.

The two initiatives reflect a central dimension of ECMI's mission: connecting mathematics with the needs of industry and society, while preparing new generations of researchers to address complex problems through modelling, optimisation and data-based methods.

Summary

Brazil hosts the 9th edition of LAWOC bringing Latin American researchers together and strengthening scientific cooperation

Researchers from different nationalities attended LAWOC 2026, held at FGV EMAp in Rio de Janeiro | Photo: Ana Santiago/FGV EMAp

From July 27 to 31, the FGV School of Applied Mathematics (FGV EMAp), in Rio de Janeiro, hosted the Latin American Workshop on Optimization and Control (LAWOC) for the first time in Brazil. In its ninth edition, the event brought together researchers, faculty members, and students from several countries to discuss advances in Optimization and Control and expand scientific collaboration across Latin America.

Founded in 2008, LAWOC aims to bring together the communities working in these two fields, which had previously developed more independently. Over nearly two decades, the workshop has helped consolidate a regional research network and encourage joint projects. Hosting the event in Brazil also marked progress toward greater scientific integration, which has historically been limited in part by language barriers.

The program featured lectures, technical sessions, poster presentations, and two short courses. Topics included optimal transport, artificial intelligence, machine learning, stochastic optimization, game theory, and dynamical systems control, as well as applications in energy, sustainability, geosciences, transportation, and logistics.

Researchers from different nationalities attended LAWOC 2026, held at FGV EMAp in Rio de Janeiro | Photo: Ana Santiago/FGV EMAp

According to Maria Soledad Aronna, a researcher at FGV EMAp and chair of LAWOC 2026, hosting the workshop supports the institution's internationalization strategy and strengthens connections with universities and research groups across the region.

The event also provided an opportunity for early-career researchers to present their work and interact with international experts. At the closing ceremony, the three best poster presentations received awards of R$1,000 each. Federico Damian Mierez, from the National University of Rosario, won first place, while Mariana da Rosa, from Unicamp, and Caio Peixoto, from FGV EMAp, shared second place.

Researchers involved in founding LAWOC, as Lisandro Parente, from Argentina, and Juan Carlos De Los Reyes, from Ecuador, highlighted the network's growth and relevance over the years. The initiative strengthens collaboration among Latin American countries and encourages discussions on scientific and socioeconomic challenges shared across the region.

Summary

2026 EMS/ECMI Lánczos Prize recognises the FEniCS Project

The 2026 EMS/ECMI Lánczos Prize for Mathematical Software has been awarded for contributions to the development of the FEniCS Project, one of the world's leading open-source platforms for finite element computing.

Developed over more than two decades, FEniCS provides tools for solving partial differential equations using the finite element method. A central feature of the project is its ability to let researchers express finite element formulations in a form closely resembling their mathematical notation, while

automatically generating efficient computational code. FEniCS is now widely used across mathematics, science, engineering, education and industrial applications.

The Prize Committee highlighted the project's broad scientific and technological impact, its use in challenging industrial problems, and its contributions to making sophisticated finite element methods easier to implement.

While the prize formally recognises a specific group of contributors, FEniCS is the result of a much broader and continually evolving international community. Over its more than 20-year history, many developers, researchers, contributors and users have helped shape the software, its underlying ideas and the ecosystem around it. The FEniCS team has emphasised that this community has been central to the project's development and success.

Established in 2023 by the European Mathematical Society and the European Consortium for Mathematics in Industry, the EMS/ECMI Lánczos Prize recognises outstanding publicly available mathematical software with important applications in mathematics, science, engineering, society or industry.

The 2026 prize was presented this summer at the 23rd ECMI Conference on Industrial and Applied Mathematics in Kaunas, Lithuania.

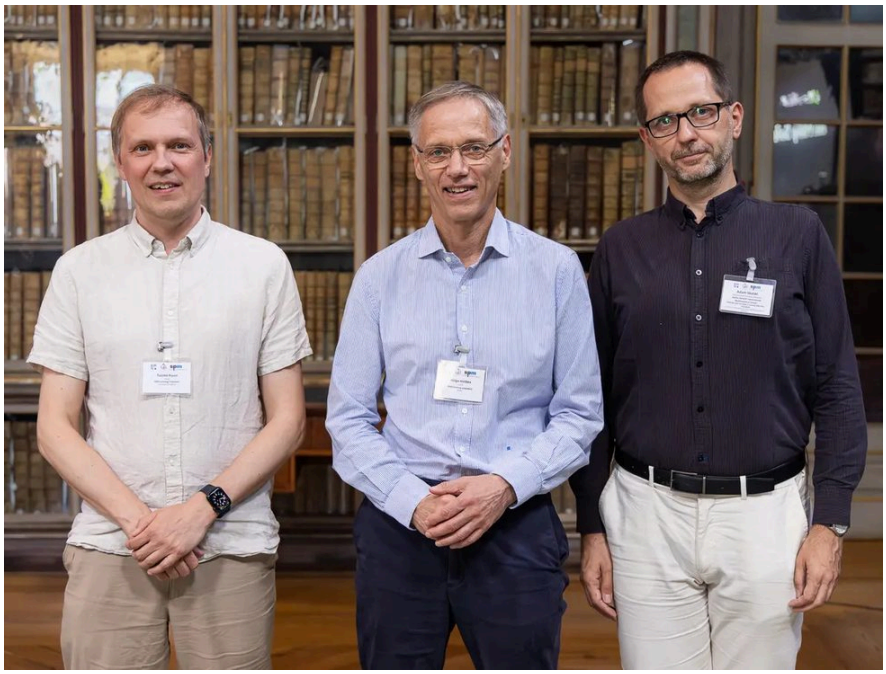
Summary

EMS Council 2026: new leadership elected for 2027-2030

Participants at the EMS Council meeting in Lisbon, 27–28 June 2026.

The Council of the European Mathematical Society (EMS) met in Lisbon on 27–28 June 2026, bringing together delegates from across the European mathematical community.

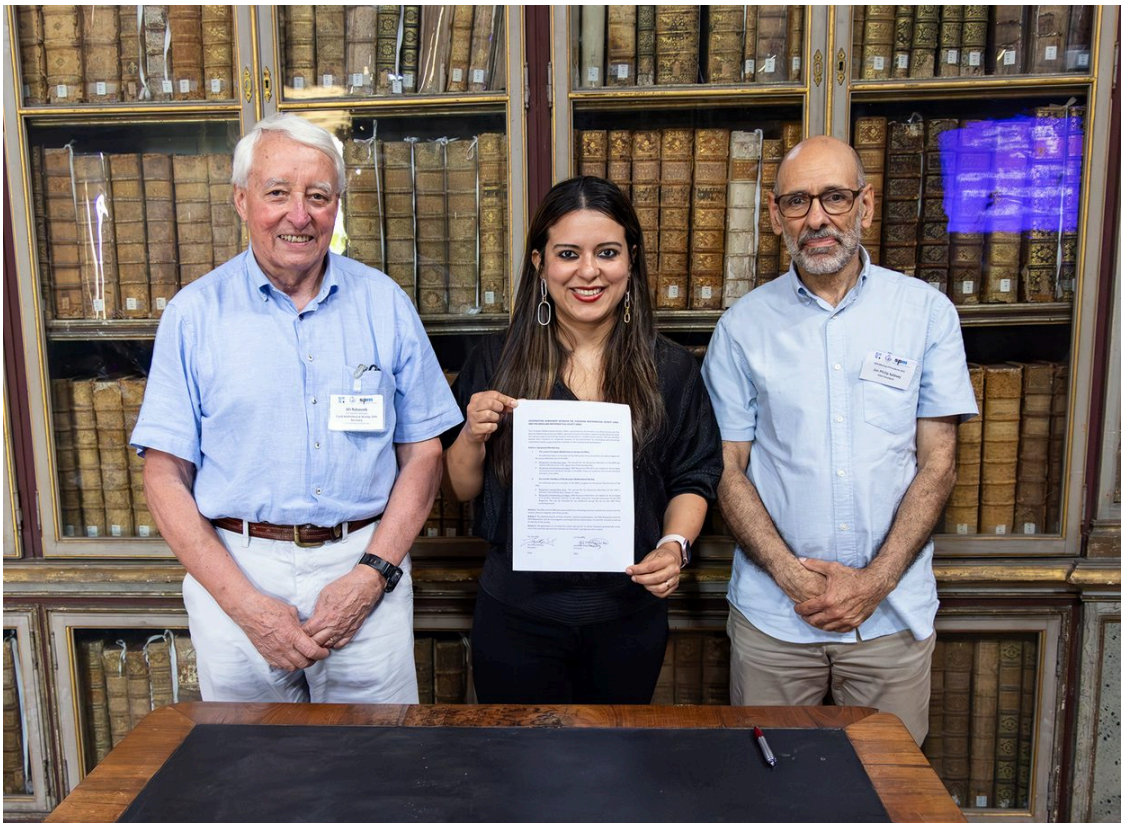
A key item on the meeting agenda was the election of new members of the EMS Executive Committee for the 2027–2030 term. **Helge Holden** was elected President, succeeding Jan Philip Solovej at the beginning of 2027. **Adam Skalski** was elected Vice-President, **Tuomo Kuusi** Treasurer, and **Elena Celledoni** Member-at-Large.



Tuomo Kuusi, Helge Holden and Adam Skalski following their election as EMS Treasurer, President and Vice-President, respectively, for the 2027–2030 term.

The Council also unanimously approved the EMS budget for 2027–2028. The budget supports the Society's continuing activities and its efforts to strengthen services and engagement across the European mathematical community.

Another outcome was the approval of new reciprocity agreements with the **Brazilian Mathematical Society (SBM)** and the **South African Mathematical Society (SAMS)**. The agreements, which have since been signed, strengthen links between the mathematical communities and allow members of the partner societies to benefit from reduced membership fees when joining the EMS, with reciprocal benefits for EMS members.



EMS Secretary Jiří Rákosník, SBM President Jaqueline Mesquita and EMS President Jan Philip Solovej during the EMS Council weekend in Lisbon.

Delegates also received an update on preparations for the **10th European Congress of Mathematics**, which will take place in Bologna in 2028. The Scientific Committee has been established and organisational preparations are under way.

The EMS Council, the governing body of the Society, meets every two years and brings together delegates from EMS member societies and representatives of individual members.

Summary

ANZIAM announces upcoming events and recognises excellence in mathematics

The ANZIAM Conference 2027 will be held at the University of Auckland, New Zealand, from Tuesday, February 2, to Friday, February 5, 2027. Full information, including the conference website, will be available soon.

Before that, the 23rd Biennial Conference on Computational Techniques and Applications (CTAC2026) will be held at the University of Sydney, from Tuesday, December 8, to Friday, December 11, 2026. For more information, including registration, visit CTAC2026.

ANZIAM has also announced the winners of its major annual medals, which were presented during ANZIAM 2026. Meet the award recipients:

- ANZIAM Medal 2026: Professor Mary Myerscough, University of Sydney;
- EO Tuck Medal 2026: Professor Ngamta (Natalie) Thamwattana, University of Newcastle;
- JH Michell Medal 2026: Dr Stuart Johnston, University of Melbourne;
- KA Landman Medal 2026: Associate Professor Roslyn Hickson, CSIRO and James Cook University.

The 2026 Best PhD Thesis Award was presented to:

- Dr Elizabeth Harris, University of Newcastle;
- Dr David Morselli, Swinburne University;
- Dr Sandy Spiers, Curtin University.

More details about the medal recipients, including the full citations, are available at ANZIAM.

Summary

CSIAM 2026 in Lanzhou Strengthens International Exchange and Support for ICIAM 2027

The 24th Annual Conference of the China Society for Industrial and Applied Mathematics (CSIAM 2026) was held from October 8 to 11, 2026, at the Gansu Grand Theatre International Conference Center in Lanzhou, China. Hosted by CSIAM and organized by Lanzhou University, the conference brought together more than 1,800 participants from universities, research institutions, and industry, providing a platform for scientific exchange, interdisciplinary collaboration, and international engagement.

Participants at CSIAM 2026 in Lanzhou, China.

Since its inception in 1990, the CSIAM Annual Conference has grown into one of China's leading academic gatherings in industrial and applied mathematics. This year's program featured nine invited plenary talks, one public lecture, 69 thematic symposia, several specialized forums, an international embedded meeting, and more than 130 posters, with over 800 academic presentations in total. The conference covered a broad range of topics, highlighting advances in mathematical theory, scientific computing, artificial intelligence, and applications across science, engineering, and industry.

A major highlight of CSIAM 2026 was the participation of Professor Wil Schilders, President of the International Council for Industrial and Applied Mathematics (ICIAM), who addressed the opening ceremony on October 9. Speaking on behalf of ICIAM, Professor Schilders congratulated CSIAM on the conference and recognized its contributions to the international applied mathematics community. Recalling the ICIAM 2015 Congress in Beijing, he emphasized the longstanding connections between Chinese mathematicians and their international colleagues. He also highlighted the growing importance of mathematics in fields such as semiconductors, energy, biomedical science, and artificial intelligence.

Professor Schilders also delivered a public lecture exploring the changing role of mathematics in scientific computing in the era of artificial intelligence. During his presentation, he introduced the upcoming 11th International Congress on Industrial and Applied Mathematics (ICIAM 2027), scheduled for July 12–16, 2027, in The Hague, the Netherlands, under the theme "Mathematics for a Sustainable Future." He encouraged Chinese researchers, particularly early-career mathematicians, to take part in this major international gathering.

Professor Wil Schilders, President of ICIAM, introduces ICIAM 2027 during his public lecture at CSIAM 2026.

In support of participation in ICIAM 2027, CSIAM launched its "Rising Scholar Travel Program" in August 2026, aiming to support 200 outstanding early-career applied mathematicians from China in attending the congress. CSIAM also actively promoted ICIAM 2027 through its official communication channels and at its annual conference. The Society published announcements about the call for minisymposium proposals and poster abstracts, as well as the opening of registration, encouraging Chinese researchers to present their work and engage with international colleagues. During CSIAM 2026, ICIAM 2027 promotional materials were prominently displayed near the conference registration area, helping raise awareness of the upcoming congress among participants.

An ICIAM 2027 promotional banner displayed at the registration area of CSIAM 2026.

International academic exchange was another important feature of CSIAM 2026. An International Embedded Meeting, organized by CSIAM's Committee on International Exchange, provided an opportunity for dialogue among scholars from the Netherlands, the Republic of Korea, Singapore, Australia, and other countries. Through research presentations and discussions, participants shared recent advances, explored common scientific interests, and strengthened connections across institutions and national borders.

Speakers and participants at the International Embedded Meeting organized by CSIAM's Committee on International Exchange.

The conference also featured the Forum on Applied Mathematics Serving National Strategies and the special forum "Math+AI Toward Infinity · Women Moving Forward Together." The latter provided a platform for six early-career women researchers to showcase their scientific achievements and share their academic experiences. During a roundtable discussion, panelists from academia and industry exchanged views on the impact of artificial intelligence on mathematical research, education, and the development of young researchers. The discussion was lively and interactive, with audience members actively raising questions and sharing perspectives with the panelists. Other highlights included the CSIAM Awards Ceremony, the presentation of CSIAM Fellow certificates and Young Talent Support Program certificates, and the inaugural CSIAM Recruitment Salon, reflecting the Society's commitment to recognizing scientific excellence and supporting emerging talent.

Lively discussions and audience interaction during the "Math+AI Toward Infinity · Women Moving Forward Together" forum at CSIAM 2026.

CSIAM 2026 highlighted the value of international cooperation in advancing industrial and applied mathematics. Through scientific exchange, support for early-career researchers, and active engagement with ICIAM 2027, the conference further strengthened the connections between China's applied mathematics community and its international counterparts. CSIAM looks forward to continuing these exchanges and contributing to the global mathematical community in the years ahead.

For more information, please visit the CSIAM 2026 conference website:

https://en.meeting.csiam.org.cn/#/2026/.

Summary

Introduction to CSIAM Journals

The China Society for Industrial and Applied Mathematics (CSIAM) currently publishes three key international society journals, covering applied mathematics, computational mathematics, life sciences, machine learning, and other fields. It is dedicated to providing mathematical scientists worldwide with a high-quality, international platform for academic exchange and publication.

The flagship journal, *CSIAM Transactions on Applied Mathematics* (CSIAM-AM), was launched in 2020. It is indexed in ESCI and Scopus, has an impact factor of 1.1 (JCR 2025), and is ranked in the T1 category

(the highest tier) in applied mathematics in the *China High-Quality Science and Technology Journal Classification Catalogue for Mathematics*. It mainly publishes original research of significant application value in applied mathematics and computational mathematics.

CSIAM Transactions on Life Sciences (CSIAM-LS) was launched in 2025. It is an innovative interdisciplinary journal focusing on the intersection of mathematics and the life sciences. It covers mathematical theories, models, and algorithms in biology and medicine, including neuroscience, biomedical engineering, systems biology, population dynamics, and bioinformatics. It aims to promote the development of traditional areas in the mathematical life sciences, open up emerging areas, and advance interdisciplinary integration.

Journal of Machine Learning (JML) is co-sponsored by CSIAM, the Center for Machine Learning Research, Peking University, and the AI for Science Institute, Beijing. It is an open-access journal and charges no publication fees. It is indexed in MathSciNet and is dedicated to building a high-level, sustainable academic exchange platform for machine learning scholars worldwide.

CSIAM plans to launch *CSIAM Review*, a flagship international review and survey journal. It aims to publish review and survey articles, expository original research articles, and commentaries on disciplinary development, with the broadest academic impact in applied mathematics, computational mathematics, scientific computing, and their interdisciplinary fields.

CSIAM warmly welcomes submissions from international colleagues.

CSIAM-AM official website: website: https://www.global-sci.com/csiam-am

Submission website: https://ef.msp.org/submit_new.php?j=csiam_am

CSIAM-LS official website: https://www.global-sci.com/csiam-ls

Submission website: https://ef.msp.org/submit_new.php?j=csiam_ls

JML official website: https://www.global-sci.com/jml

Submission website: https://ef.msp.org/submit_new.php?j=jmlearn

Summary

COMING SOON

AI and the Future of Mathematics Education.

November 13, 2026 | University of Stuttgart, Germany

The event "AI in Mathematics Education – Will We Still Be Needed?" will discuss how artificial intelligence is changing university mathematics education. Organized by the German Mathematical Society (DMV), it will bring together educators to explore the opportunities and challenges of AI in

teaching, assessment, and examinations, as well as the skills students and educators will need in the future.

Information

FMfI 2026 – Mathematics in Action

December 17–19, 2026 | Bangkok, Thailand

The "Math-for-Industry" Forum will bring together researchers and professionals to discuss applications of mathematics in industry and decision-making in complex scenarios.
The event will be held at Kasetsart University and organized by the Asia Pacific Consortium of Mathematics for Industry (APCMfI), in partnership with institutions from Thailand and Japan.
The program will be preceded by a hybrid workshop, from December 13–16, at Mahidol University.

Information

Workshop on Statistics and Applications

December 4–5, 2026 | Lisbon, Portugal

The workshop will bring together researchers to discuss recent developments in statistics and its applications. The international scientific meeting will be held at ISEG – Universidade de Lisboa on the occasion of the 70th birthday of Wenceslao González Manteiga and is organized by ISEG Research.

More information

KWG Winter Symposium

January 14–16, 2027 | The Netherlands

The Winter Symposium of the Royal Dutch Mathematical Society (KWG) brings together mathematicians and researchers for scientific lectures, discussions, and opportunities to exchange ideas across different areas of mathematics. The event offers a platform for the Dutch mathematical community to meet and explore current developments in mathematical research.

Read More

YOU MIGHT ALSO WANT TO KNOW

Moritz Kaßmann to Become President of the DMV in 2027.

Moritz Kaßmann, a professor of mathematics at Bielefeld University and the current vice president of the German mathematical Society (DMV), will take over as president of the DMV effective January 1, 2027. The DMV Executive Board made this decision unanimously at its last meeting before the summer break. Moritz Kaßmann will then succeed the current president, Jürg Kramer, who will step down at the end of 2026 as scheduled. This is because the presidency of the DMV is an honorary position that is always held for only two years.

Photo: Mike-Dennis Müller

Industrial Mathematics and AI in the Spotlight in China

On September 13, the University of Shanghai for Science and Technology hosted the 2026 **Academic Conference of the Shanghai Society for Industrial and Applied Mathematics**. The event brought together researchers from universities, institutes, and companies to discuss advances and applications of industrial mathematics. Topics included AI for Math, scientific machine learning, high-performance scientific computing, and mathematics for industry. The program also addressed industrial challenges and pathways for transforming mathematical results into technological innovation.

Call Open for New EMS Topical Activity Groups

The European Mathematical Society (EMS) is inviting applications to establish new **EMS Topical Activity Groups (EMS-TAGs)** starting in 2027. The initiative aims to foster scientific cooperation across Europe and strengthen connections between different areas of mathematics. Groups must include at least seven EMS members and should propose activities that contribute to integration, dissemination, inclusivity, and diversity within the European mathematical community. The application deadline is October 31, 2026.

The Royal Dutch Mathematical Society launches a new website

The Royal Dutch Mathematical Society (KWG), founded in 1778 and the world's oldest national mathematical society, has launched a new website. The platform brings together news, events, publications, awards, resources, and information for mathematicians and mathematics enthusiasts. It also highlights initiatives such as Young KWG, which supports early-career researchers through networking, workshops, and career development activities. kwg.nl

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IMA Gold Medal 2024 awarded to Celia Hoyles and Chris Budd

The Institute of Mathematics and its Applications (IMA) awarded its 2024 Gold Medal to Professor Dame Celia Hoyles DBE CMath Hon FIMA and Professor Chris Budd OBE CMath FIMA, recognizing their outstanding contributions to mathematics and its applications. Both have played important roles in promoting mathematics beyond academia, strengthening its connections with education, industry, and society. The award highlights their distinguished careers and their commitment to demonstrating the relevance and impact of mathematics.

Celebrating 100 Years of the Journal of the London Mathematical Society

The London Mathematical Society is celebrating the 100th anniversary of the Journal of the London Mathematical Society (JLMS), founded in 1926. The centenary event, taking place on November 19, 2026, in London and online, will feature talks inspired by influential papers published in the journal throughout its history. A special centenary issue will also revisit some of the journal's most significant contributions to mathematics over the past century.

The ICIAM newsletter was created to express the interests of our membership and partner organizations and the views expressed in this newsletter are those of the authors and do not necessarily represent those of ICIAM or the Editorial team. We welcome articles and letters from members and associations, announcing events, on-site reports from events and industry news.

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