

IMEKO NEWSLETTER
SEPTEMBER 2026

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List of Conferences



DEAR FRIENDS, DEAR COLLEAGUES,

In this busy IMEKO year, though it's already September, we still have several events to look forward to, including five conferences scheduled before the year's end.

The fruitful annual IMEKO Technical Board and General Council Sessions recently took place in Bangkok, Thailand. Colleagues at the National Metrology Institute of Thailand (NIMT) organised this event with amazing hospitality and attention to detail. The productive General Council Session welcomed four new Member Organisations. Further details about the Sessions will be included later in this issue.

Meet a newly created IMEKO position's first appointee, Prof. Yong Yan from China, as Vice President for Conferences.

The World Congress, set for 2027 in Rimini, Italy – the largest IMEKO event of every three years – is highly anticipated. The Call for Special Sessions has just concluded, and the results are eagerly awaited, along with the presentation of outstanding ideas at this Congress. Meet Mattia Alessandro Ragolia, from the World Congress organising team, who leads the social media section and creates amazing weekly posts for the WC in Rimini.

Ahead of this issue, alongside the important developments from the meeting in Thailand, IMEKO brings news from the year's best-attended event: the FLOMEKO conference in Naraya, Japan. Manila, the Philippines, one of IMEKO's youngest Member Organisations hosted a joint event and report on its days.

In the series IMEKO Goes to Young Scientists, we cover on the 3rd in the series of Young Ukrainian Metrologist Competition for 2026.

GENERAL COUNCIL SESSIONS 24-25 AUGUST 2026, BANGKOK, THAILAND



General Council Sessions participants, with online participants in the background, from left to right, first row: Prof. Kenneth Grattan, Dr Alessandro Germak, Prof. Daniel Kytyr, Prof. Frank Härtig, Prof. Paolo Carbone, Ms Barbara Goldstein, Dr Dae-Im Kang, Prof. Alexander Shestakov, Prof. Eric Benoit, Dr Avdullah Jasiqi, Mr Aiwen Ma, Prof. Yong Yan, Dr Beatrice Rodiek, Ms Katja Rossignol, Dr Yon-Kyu Park, Dr Woong Kang, Prof. Oh Seung-Yoon, Prof. Jakub Svatos, Mr Zoltan Zelenka, Prof. Alvaro Silva Rivero, Mr Bujar Istogu, Mr Yun Yung, Ms Kelly.

The 70th merged General Council (GC) and Technical Board (TB) Sessions of the International Measurement Confederation (IMEKO) took place in hybrid mode on 24-25 August 2026 at The Sukhothai Hotel in Bangkok, Thailand. Hosted by the National Institute of Metrology, Thailand (NIMT), the annual meeting brought together Member Organisation Delegates, Technical Committee Chairs, and IMEKO Officers from across the globe. IMEKO's Thai member organisation, NIMT, provided generous, professional local arrangements.

IMEKO wishes to express its gratitude to NIMT once more for the generous hospitality!



The local organising team of the National Institute of Metrology (NIMT). From left to right in the picture, the team members are: Ms Thanakporn Nontachart (Pad), International Relations Officer; Dr Phattaraporn Morris (Patty), Group Leader of Bio Analysis and Head of International Relations Office; Ms Charuayrat Yaokulbodee, Head of Thermometry and Optical Metrology Department; Ms Jirachaya Rodkaew, International Relations Officer; Ms Khattiyane Klinmalai, International Relations Officer.

IMEKO President Prof. Paolo Carbone led the two-day event, and President-Elect Ms Barbara Goldstein chaired the Technical Board's day. The sessions produced crucial decisions on organisational expansion, conference leadership, support for early-career researchers, among others.

Expansion of Global Reach

Following the recommendations of the Advisory Board and Presidential Board, IMEKO formally accepted four new Member Organisations (MOs) into its international network, significantly expanding its footprint across Asia-Pacific and Europe:

GENERAL COUNCIL SESSIONS 24 - 25 AUGUST 2026, BANGKOK, THAILAND

- **DOST-ITDI** - Department of Science and Technology Industrial Technology Development Institute (Philippines)
- **VSL** - National Metrology Institute (Netherlands)
- **UST** - University of Science and Technology (South Korea)
- **MSA** - Metrology Society of Australasia (Australia)

New Strategic Partners

To strengthen global metrology ties, IMEKO formally concluded Memoranda of Understanding (MoUs) with two key partners: the European Weighing Association (CECIP) and the Bureau International des Poids et Mesures (BIPM). IMEKO also maintains strategic ties with its existing partners, including EUROLAB, APMP, AFRIMETS, EURAMET, SIM, CEEES, and GULFMET. Additionally, we are pursuing applications for observer status with international bodies such as the International Science Council (ISC Category 4), while exploring future connections with UNESCO and UNIDO.

Governance Modernisation

The General Council formally adopted updated governance documents, including the Guide on Reimbursements, the Guide on Investment Procedures and the Financial Guide. The GC entrusted the Presidential Board with approving IMEKO Guides. The GC also confirmed that IMEKO remains in a healthy financial position with a stable yearly surplus to fund internal development projects that serve the organisation. This was reflected, among other things, in the recently launched new look of the IMEKO website.

Focus on Young Scientists & Early-Career Researchers

IMEKO placed special emphasis on supporting young scientists and early-career researchers (ECRs). Building on initiatives spearheaded by Technical Committee 2 (TC2) and the Presidential Board, several formal mechanisms were established:

Junior Membership Category: A new membership entry level to encourage early involvement in Technical Committee activities.

Working Group of Young Scientists in Metrology (WYSM): Led by Chair Valentina Bello, this working group provides a dedicated platform and voice for early-career members.

Strategic Leadership & Publications Growth

To improve and standardise event execution across all Technical Committees, the General Council elected Prof. Yong Yan as Vice President for Conferences. His agenda focuses on implementing user-friendly submission systems (replacing outdated tools), standardising paper templates, and establishing structured protocols for publishing conference proceedings and special journal issues.

Publications

The Publication Officer reported notable achievements across IMEKO's publishing:

Measurement (Flagship Journal): Recorded a 43% surge in manuscript submissions year-to-date (rising from 8,494 to 12,180 manuscripts), while its Impact Factor climbed to 6.1.

Acta IMEKO & New Ventures: Acta IMEKO continues as a diamond open-access e-journal with an Impact Factor of 0.9 and CiteScore of 1.5.

GENERAL COUNCIL SESSIONS 24-25 AUGUST 2026, BANGKOK, THAILAND

Preparations are also underway for a new Journal, Measurement Quantum.

The proceedings database currently hosts 9,759 papers, with continuous efforts to index older conference papers.

Digital Infrastructure & Outreach

IMEKO successfully migrated its website and proceedings database away from PTB to independent web hosting (covering imeko.org and acta.imeko.org). Outreach efforts expanded through a new YouTube channel ("The IMEKO Media"), over 2,000 LinkedIn followers, and regular bimonthly newsletters.

Looking Ahead: World Congresses 2027 and 2030

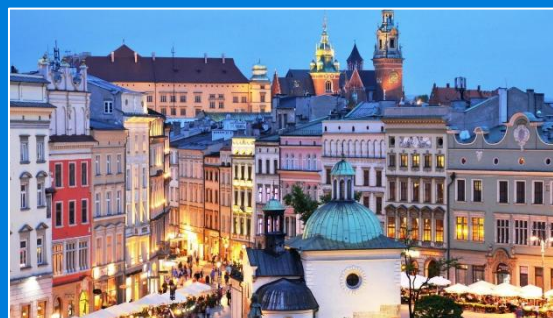


The meeting concluded with updates on upcoming flagship international events:

XXV IMEKO World Congress (2027) Rimini, Italy 30 August-3 September 2027 (Joint GC/TB Sessions: 28-29 August 2027)

Key Milestones

- Extended Abstract submission window: 15 October 2026-15 January 2027;
- Acceptance notification: 28 February 2027;
- Revised Full Paper submission: 3-18 May 2027;
- Final Full Paper deadline: 15 June 2027.



XXVI IMEKO World Congress (2030)

Organising Lead & Dates

Lead organiser Prof. Piotr Bilski confirmed the Congress dates as 7-12 September 2030 in Krakow, Poland. Location: Krakow, Poland.

Newly elected officers

The GC elected the following Technical Committee Officers for three years and wishes them success:

TC6:

Ioan Tudosa, Italy, Vice Chair

TC12:

Mohamed Sadli, France, Chair

Xiaojuan Feng, China, Vice Chair

Renato Teixeira, Brazil, Scientific Secretary

TC17:

Bálint Kiss, Hungary, Chair

Simone Keller Fuchter, Brazil, Vice Chair

Ioan Doroftei, Romania, Vice Chair

Several TC Members and Chairs had completed their terms and were thanked for their service.

Special thanks to Mr Andy Knot, outgoing Chair of TC3.

As a final word, the Sessions were well attended, both in person and online. IMEKO thanks all participants for attending!

INTRODUCING PROF. YONG YAN, IMEKO'S FIRST VICE PRESIDENT FOR CONFERENCES, AND HIS PLANS FOR IMEKO



My appointment as IMEKO Vice President (VP) for Conferences was approved at the General Council (GC) meeting held on 25 August 2026. I was delighted by the news and feel a great honour to take on the role and work with the leading scientists and engineers across IMEKO. I would like to say thank you very much to all members who supported me in the approval process at the GC meeting. Meanwhile, the VP role entails significant responsibilities within IMEKO. I have to try my utmost to contribute to a range of activities across the IMEKO groups and Technical Committees. I would like to take this opportunity to introduce myself to the readers of the IMEKO Newsletter and outline the initiatives I would like to work on during my term as VP for Conferences.

I earned my BEng and MEng degrees in instrumentation and control engineering at Tsinghua University in Beijing in the 80's. After a short teaching assistantship at Tsinghua University, I went to the UK in late 1989 to pursue my PhD in flow measurement and instrumentation.

I then worked at Teesside University, the University of Greenwich, and the University of Kent, first as a postdoctoral research fellow, and later as a lecturer, senior lecturer, reader, and finally professor.

Since July 2024, I have served as Director and Chief Scientist of the International Research Center for Carbon Neutralization at the Hangzhou International Innovation Institute, Beihang University, Hangzhou, China. My research group of 30+ full-time researchers is focusing on energy measurement and carbon metrology.

I am the founding Editor-in-Chief of the *Measurement: Energy* Journal and an Editor of the *Measurement* Journal. Through my editorships of these two journals, and as Vice Chairperson of IMEKO TC20 (Measurement of Energy and Related Quantities) from 2018 to 2025, I have learned the objectives and endeavours of IMEKO.

For almost four decades, I have worked in measurement and instrumentation. From a junior academic to my current senior position in academia, I have always had a passion for research in electrostatic sensing, digital imaging-based measurement, and intelligent instrumentation. I have enjoyed collaborating with industrial partners across the UK, France, Italy, the USA, and China.

INTRODUCING PROF. YONG YAN, IMEKO'S FIRST VICE PRESIDENT FOR CONFERENCES, AND HIS PLANS FOR IMEKO

My research interests include measurement techniques for the Carbon Capture, Utilization and Storage (CCUS) chain, multiphase flow metering, combustion process monitoring, and intelligent sensing and condition monitoring.

In recognition of my contributions to pulverised fuel flow metering and burner flame imaging, I was named an IEEE Fellow in 2011 and elected as a Fellow of the Royal Academy of Engineering in 2020. I have been awarded more than 20 prizes in recognition of my research and teaching achievements, including the Best Applications Award of the IEEE Instrumentation and Measurement Society in 2017.

I have published over 270 papers in scientific journals, including 66 in *IEEE Transactions on Instrumentation and Measurement* and 13 in *Measurement*. My h-index is 57 with over 12,000 citations, as shown on my Google Scholar profile.

As the VP for Conferences, I will lead several initiatives. One is supporting students and Early Career Researchers (ECR) working in measurement and instrumentation. These include establishing and managing a Student Travel Grants (STG) scheme to support self-financed research students, or students from some countries who are doing excellent research but cannot attend IMEKO conferences for financial reasons.

At the time of writing, key terms and conditions of the STG have been discussed with various people and committees within IMEKO. This initiative has strong support from Elsevier, the publisher of the *Measurement* Journals. Meanwhile, it has been proposed to offer prizes for the best oral presentations and posters to ECRs at some IMEKO conferences. This will be in recognition of their achievements in measurement research and the high quality of their presentations. ECRs are defined as lecturers, assistant professors, junior engineers, and postdocs, as well as PhD, MPhil, and MSc-by-Research students. Such prizes differ from the usual best conference paper prizes, which are normally offered to leading or experienced individuals or well-established research teams. The best paper prizes for ECRs will consist of certificates only, so there are no financial implications. Again, Elsevier has confirmed its support for this initiative.

Another scheme I would like to implement is to establish a Distinguished Lecturer (DL) programme within IMEKO. The DLs, appointed by IMEKO through an official selection process, will give public lectures at conferences, academic institutions, and leading industrial companies worldwide. They will disseminate the latest metrology knowledge and best measurement practices, and inspire the next generation of measurement professionals worldwide. It is proposed that IMEKO cover international travel costs, with local costs covered by the inviting organisations.

INTRODUCING PROF. YONG YAN, IMEKO'S FIRST VICE PRESIDENT FOR CONFERENCES, AND HIS PLANS FOR IMEKO

A selected DL may call themselves a Distinguished Metrologist or Distinguished Measurement Technologist, if they wish to do so. IMEKO certificates will be issued to all appointed DLs. It is proposed that some public lectures will be recorded and made available on the IMEKO website or IMEKO YouTube for students, researchers, and the wider public.

Apart from these initiatives, I will, of course, support organising IMEKO conferences in China and other countries.

We plan to organise the second MeSSAC (Measurement, Sensor Systems and Applications Conference) in China in 2028, following the first MeSSAC, which was successfully held in Hangzhou, China, in 2025. Meanwhile, conference websites, abstracts, proceedings papers, and special issue papers have shown significant inconsistencies between IMEKO conferences run by individual TCs and joint TCs. There are early IMEKO guidelines available, but they need to be updated with new information. I will work with relevant IMEKO working groups and the administrative team to refine the guidelines for IMEKO conferences. It is important to establish and follow IMEKO conference "standards", including the IMEKO code of practice for publication of conference proceedings and the IMEKO protocol for publishing special issues of *Measurement* journals and *Acta IMEKO* from IMEKO conferences.

The upcoming IMEKO World Congress 2027 will be an ideal event to test and implement some of the initiatives. I have been working closely with the Organising Committee of IMEKO World Congress 2027 over the past six months. I am delighted to report that both IMEKO and Elsevier have confirmed their financial support for the STG scheme and best paper prizes for ECRs.

The next stage of work is to identify qualified individuals to form a STG committee and an ECR prize committee. This requires significant effort and takes time, too. Since there are other prizes to be awarded at the Congress, coordination with the relevant sub-committees of the Congress has to be made.

I must say, while implementing the initiatives and making them a success by working with various working groups, Technical Committees, and the IMEKO administrative team, I will feel a sense of achievement that impacts young people, measurement professionals, and the community at large.

Written by Prof. Yong Yan, Vice President for Conferences and Publicity Chair for the World Congress Rimini 2027. Editor-in-Chief for the Measurement Energy Journal

(Measurement: Energy is an open access journal open to original, high-quality contributions from all relevant fields of this highly topical and multi-disciplinary subject. It is a companion journal to Measurement: Journal of the International Measurement Confederation (IMEKO). It is one of the journals published by IMEKO with Elsevier.)

MEET MATTIA ALESSANDRO RAGOLIA, SOCIAL MEDIA CHAIRPERSON OF IMEKO WORLD CONGRESS RIMINI 2027



I am Mattia Alessandro Ragolia, a tenure-track researcher in Electrical and Electronic Measurements at Politecnico di Bari, Italy, where I have worked since 2024.

My academic activity combines teaching and research. I teach a course on Sensors and Transducers, while my research focuses on sensor technologies and measurement systems, with particular interest in 3D-printed sensors, sensor characterisation, and measurement systems for biomedical and industrial applications.

I have been active in the field of measurement science for about seven years, participating in international IEEE conferences, as well as national GMEE conferences. My involvement in the IMEKO World Congress 2027 began following contacts between my professor, Filippo Attivissimo, and Prof. Paolo Carbone, General Chair of the Congress. When I was offered the opportunity to contribute to the communication activities of the World Congress, I was pleased to accept the role.

As Social Media Chair, I work with Cemil Keskinoglu from Çukurova University, Türkiye, on the communication strategy for IMEKO 2027. Our work includes planning the Congress's social media presence, preparing posts and visual content, promoting calls and key deadlines, and highlighting its scientific, professional, and networking opportunities.

One of the most valuable aspects of this experience is the opportunity to interact regularly with the other Chairs and members of the organising team. Being involved from an early stage has given me a better understanding of the work and coordination required to organise a major international scientific event. As a young researcher, I consider this an important opportunity to become more actively involved in the measurement community, take on new responsibilities, and contribute consistently to a shared objective. At the same time, this experience will provide additional motivation and new perspectives for my own research.

I am particularly looking forward to the opportunities for scientific exchange, networking, and new collaborations that the World Congress will offer. I am also personally pleased that the Congress will take place in Rimini, a city to which I have a special connection, having lived there for a period during my childhood. Returning many years later as a member of the organising team will therefore have a particular significance for me.

Contributing to IMEKO 2027 represents both an important responsibility and a source of great professional and personal satisfaction. I hope that our communication activities will contribute to bringing together the international IMEKO community in Rimini and to making the World Congress a valuable occasion for scientific exchange and collaboration.

*Written by Mattia Alessandro Ragolia
Social Media Chair, IMEKO World Congress
2027, Politecnico di Bari, Italy
Personal web page: [Mattia Alessandro Ragolia](#)*

REPORT ON THE INTERNATIONAL FLOW MEASUREMENT CONFERENCE FLOMEKO 2026

Written by Noriyuki Furuichi,

Local organising committee of FLOMEKO 2026.



The Road to Nara

FLOMEKO, the International Flow Measurement Conference, was established under IMEKO TC9 in the late 1970s. The first conference was held

in the Netherlands in 1978, and since then FLOMEKO has been held every one to three years in different parts of the world. By 2026, the conference had reached its 20th edition. In recent years, FLOMEKO has traveled from Johannesburg in 2007 to Taipei, Paris, Sydney, Lisbon, and Chongqing, with the 2024 IMEKO World Congress in Hamburg taking place between the previous and current FLOMEKO editions.

FLOMEKO is the only international conference dedicated primarily to flow measurement. Its scope covers a broad range of topics, including liquid and gas flow measurement, air speed, volume, and fluid properties; flow facilities, primary standards, calibration, and inter-comparison; legal metrology; uncertainty analysis; the development and performance of flow measurement and metering technologies; dynamic flow measurement; fluid dynamics, including turbulence and boundary layers; and numerical simulations for flow metering.



The 20th FLOMEKO was held in Nara, Japan, marking only the second time that FLOMEKO had been held in Japan since the 1979 conference. Because the conference had not returned to Japan for more than four decades, the flow measurement community had occasionally requested that FLOMEKO be held in Japan again. At the National Metrology Institute of Japan (NMIJ), AIST, the number of researchers working on flow measurement has also been increasing in recent years. We therefore saw this as a timely opportunity to host the conference and decided to put forward Japan as a candidate.

The preparation started around March 2024 with discussions on a suitable venue. Nara was eventually selected, offering an ideal setting with its long history and rich cultural heritage. The conference venue was the Nara Kasugano International Forum IRAKA, a unique facility featuring a traditional Noh theatre and a beautiful Japanese garden. The combination of the traditional architecture and natural surroundings provided an especially attractive setting for an international conference.

REPORT ON THE INTERNATIONAL FLOW MEASUREMENT CONFERENCE FLOMEKO 2026

FLOMEKO 2026 in Nara

FLOMEKO 2026 was held from 17 to 20 May 2026 at the Nara Kasugano International Forum IRAKA. The response exceeded our expectations: the conference welcomed exactly 300 participants from 30 countries, with 182 presentations from 25 countries, including 27 poster presentations. The large number of participants and presentations made FLOMEKO 2026 a truly international and vibrant gathering of the flow measurement community.

To accommodate participants who were unable to travel to Japan for various reasons, a temporary online presentation system was established, allowing them to participate remotely. Four parallel sessions were operated throughout the conference, enabling the broad technical programme to be presented within the three-day schedule.

New Topics and Organised Sessions

One new feature of FLOMEKO 2026 was the introduction of five Organised Sessions, focusing on emerging topics of increasing importance to flow measurement: Hydrogen Flow, CO₂ Flow, Micro Flow, Two-Phase Flow, and Alternative Fuel Flow. These sessions were established to encourage contributions addressing new challenges arising from environmental issues and the transition towards new energy systems.

The flow measurement community responded strongly. The Hydrogen Flow session attracted 17 presentations covering topics such as hydrogen flowmeters and hydrogen flow calibration. The CO₂ Flow session also received 14 presentations, demonstrating the growing interest in accurate flow measurement for these emerging applications.



In total, the five Organised Sessions included 54 presentations, accounting for almost one third of all presentations at the conference. The strong response demonstrated the relevance of these emerging topics and the value of introducing dedicated sessions for them at FLOMEKO.

Alongside the Organised Sessions, 11 Technical Sessions covered FLOMEKO's traditional core areas, including New Developments in Flow Measurement Technology, Gas Flow, Volume, Velocity, Ultrasonic Flowmeters, Coriolis Flowmeters, Primary Standards and Facilities, Inter-comparison, Uncertainty Analysis, and Legal Metrology. A new Technical Session on Fluid Dynamics was also introduced, with the aim of encouraging broader participation from the academic community.

The technical programme therefore brought together established topics, such as the development of flowmeters, primary standards and calibration facilities, and international comparisons, with more fundamental and academic studies of fluid dynamics. The broad range of contributions suggested that FLOMEKO is continuing to expand beyond its traditional scope while maintaining its strong foundation in practical flow measurement and metrology.

REPORT ON THE INTERNATIONAL FLOW MEASUREMENT CONFERENCE FLOMEKO 2026

Keynote Lectures

Three keynote lectures were delivered during FLOMEKO 2026, covering a wide range of perspectives on flow measurement and its future development.

Dr John Wright (NIST, USA) gave a keynote entitled "Building Cooperative Research". Drawing on his many years of experience in flow measurement research at NIST, Dr Wright discussed the importance of collaboration among researchers and how cooperative research can be developed and sustained. His lecture provided valuable insights into how interaction and collaboration within the research community can contribute to advances in flow measurement.

Assoc. Prof. Hideki Murakawa (Kobe University, Japan) presented "Ultrasonic Tomography for Measuring Bubble Behavior in Liquid Metal". He introduced an advanced measurement technique for observing bubble behavior in liquid metal using ultrasound, addressing the considerable technical challenges involved in measuring flows in such a difficult environment. The presentation demonstrated the potential of advanced measurement technologies for applications well beyond conventional flow measurement.

Mr Kenji Yasuda (Panasonic Electric Works Co., Ltd., Japan) presented "Ultrasonic Flow Measurement for Gas Metering and Future Hydrogen Applications". He introduced the development of ultrasonic gas metering technology and its potential applications to hydrogen-related systems.

The lecture provided a valuable link between established flow measurement technologies and emerging requirements associated with the energy transition.

Together, the three keynote lectures reflected the broad scope of FLOMEKO 2026, ranging from research collaboration and advanced measurement technologies to industrial applications and emerging energy systems. They also highlighted the increasingly diverse challenges and opportunities facing the flow measurement community.

Sponsors and Exhibitions

FLOMEKO 2026 was supported by a large number of companies and organisations. A total of 24 sponsors participated, including five Premium sponsors, eight Gold sponsors, nine Silver sponsors, and two Bronze sponsors. We would like to express our sincere appreciation to all of the sponsors for their generous support of the conference.

Premium and Gold sponsors also hosted exhibition booths at the conference venue, giving participants opportunities to learn about their latest products and technologies. Short presentations by the exhibiting companies were also held during the exhibition period. Such opportunities for direct interaction between companies and researchers are not always available at academic conferences, and the exhibition programme provided a valuable opportunity for both the sponsors and participants to exchange information and discuss the future of flow measurement.

REPORT ON THE INTERNATIONAL FLOW MEASUREMENT CONFERENCE FLOMEKO 2026



Social Events and Japanese Culture

Several social events were organised throughout FLOMEKO 2026, including a Welcome Party, a Garden Party, and the Conference Banquet. In addition to providing opportunities for participants from different countries and backgrounds to meet and exchange ideas in a relaxed atmosphere, the events also offered an opportunity to experience Japanese culture.

Traditional Japanese performances, including shamisen and taiko drumming, were presented during the parties. A tuna cutting demonstration was also held, introducing participants to a distinctive aspect of Japanese food culture. These events added a cultural dimension to the conference and helped make the gathering in Nara a memorable experience for international participants.

Awards for Young Researchers

For the first time in FLOMEKO, awards were presented to **seven young researchers** in recognition of their contributions to the conference. The awards were introduced to encourage young researchers and to provide additional motivation for the next generation of researchers working in flow measurement.

Although this was a new initiative for FLOMEKO, we hope that the awards will continue in future editions and contribute to encouraging young researchers to actively participate in the FLOMEKO community.

Conclusion

FLOMEKO 2026 was blessed with fine weather throughout the four-day conference, and the event concluded successfully without any major difficulties. Many participants expressed their appreciation for the conference and commented positively on both the technical programme and the overall experience. The organising Committee was delighted to hear such favorable feedback.

The conference also provided valuable opportunities for participants to experience Japanese culture, while engaging in scientific and technical exchange with researchers and professionals from around the world. In particular, the strong participation in the Organised Sessions and the broad range of academic presentations demonstrated the continuing development of FLOMEKO and its potential to further strengthen connections between the flow measurement and academic communities.

We would like to express our sincere gratitude to all participants, presenters, sponsors, reviewers, and members of the organising committees whose contributions made FLOMEKO 2026 possible.

The next FLOMEKO is scheduled to be held in the Netherlands in 2028. We look forward to the continued development of FLOMEKO and to welcoming the flow measurement community again in the future.

FAREWELL TO PROF. DR. KLAUS DIETER SOMMER

**In Memoriam of Prof. Dr. Klaus-Dieter Sommer**

IMEKO mourns the passing of Prof. Dr. Klaus-Dieter Sommer, a highly respected metrologist who contributed to the international measurement community over many years.

Klaus-Dieter Sommer held leading positions in German metrology, including at the Thuringian State Authority for Metrology and Verification and later at the Physikalisch-Technische Bundesanstalt (PTB). His scientific work covered fundamental questions of measurement science, with particular emphasis on measurement uncertainty, modeling of measurement processes and, later, metrology for energy.

He was closely involved in IMEKO and contributed to several of its Technical Committees.

These were TC7, Measurement Science, TC19, Environmental Measures, TC21 Mathematical Tools for Measurements. He proposed the foundation of TC20 Measurement of Energy and Related Quantities and chaired this TC for several years. From 2012 to 2014, he served as IMEKO President-Elect and Chairman of the Technical Board. He contributed numerous papers to IMEKO congresses and symposia and chaired scientific sessions at IMEKO World Congresses.

His contributions to metrology were widely recognised. In 2012, he received the prestigious Woodington Award for his outstanding contributions, commitment and leadership to measurement science. He also received the VDI Badge of Honour.

He held honorary professorships at the universities of Erlangen-Nuremberg, Braunschweig and Ilmenau.

Beyond his scientific achievements, many colleagues will remember Klaus-Dieter Sommer for his personal commitment to the international metrology community and to the exchange between scientists and institutions.

IMEKO extends its sincere condolences to his family, friends and colleagues and will honour his memory as a dedicated scientist and long-standing member of the international metrology community.

IMEKO TC8-TC11-TC24 JOINT CONFERENCE METRO MANILA PHILIPPINES

Written by Admer Rey Dablio

Pioneering Future-Ready Measurements: IMEKO Joint Conference 2026 Achieves Historic Success in Manila

In an unprecedented gathering of scientific minds and industry, the Industrial Technology Development Institute of the Department of Science and Technology (DOST-ITDI) successfully hosted the IMEKO TC8-TC11-TC24 Joint Conference 2026 from 26 to 29 August 2026, at the Acacia Hotel Manila in Alabang, Muntinlupa City, Metro Manila, Philippines. Centered on the compelling theme, "Leveraging Innovation for Future-Ready Measurements for Industry, Health and Environment", the four-day international symposium established a benchmark for metrological excellence, research synergy, and institutional host capacity in the Asia-Pacific region.

For the third time, three Technical Committees, TC8 Traceability in Metrology, TC11 Measurement in Testing, Inspection and Certification, and TC24 Chemical Measurements, held a joint conference. This strategic convergence gave delegates a holistic view of how precise chemical measurements, environmental surveillance, and metrological traceability form the backbone of modern industrial quality infrastructure.

Conference Participant's Testimonial: *"Bringing TC8, TC11, and TC24 together was a smart move—it's rare to have traceability, testing, and chemical measurements all in the same room. It gave a practical look at how global standards apply to actual lab work."*



Inspiring Keynote & Visionary Plenary Sessions

The conference officially opened on 27 August 2026 with welcoming remarks from Dr Annabelle V. Briones, Director of DOST-ITDI, and from the IMEKO Technical Committees: Dr Michela Sega (Chairperson, TC8), Dr Álvaro Silva Ribeiro (Chairperson, TC11), and Dr Leonardo Iannucci (Scientific Secretary, TC24), alongside Mr Admer Rey C. Dablio, Chairperson of the Local Organising Committee.

Prof. Renato U. Solidum, Secretary of the Philippines' Department of Science and Technology, delivered the Keynote Address entitled "Securing Tomorrow's Standards: DOST's Commitment to Innovation and Future-Ready Measurements", reiterating the Philippines' steadfast commitment to embedding robust measurement science into national development policies.

The technical programme featured five distinguished Plenary Lectures addressing critical frontiers in measurement science:

EUROLAB - A Strategic Approach for the Lab of Tomorrow: Ms Laura Martin (Secretary General, EUROLAB, Belgium).

IMEKO TC8-TC11-TC24 JOINT CONFERENCE METRO MANILA PHILIPPINES

Standardising the Future: The Official Launch of the Global Accreditation Cooperation Incorporated: Mr Marcus Long (Chief Executive, IIOA, United Kingdom).

Quality and Trust Through Metrology: Advancing Natural Products in Healthcare and Industrial Sectors: Dr Sornkrit Marbumrung (Senior Metrologist, NIMT, Thailand).

Boosting National Quality Infrastructure: Insights from the World Development Report 2025: Mr Philip Grinsted (Private Sector Specialist, World Bank, USA).

Trustworthy AI in Medicine: Data Quality as a Metrological Challenge: Dr Daniel Schwabe (Coordinator for Digital Medicine, PTB, Germany).

Across three dense days of parallel technical sessions, researchers presented studies in the following topics:

Food Safety & Chemical Testing: Validation of LC-MS/MS methods for PFAS/PFOA migration in food-contact materials, microparticles in marine waters, and heavy metal testing in seafood matrices.

Environmental & Material Sciences: Nanomaterials for gas sensing applications, elemental fingerprinting of reinforcing steel, and direct mercury determination in fish tissue.

Digital Transformation in TIC: Audit-ready and explainable machine learning models, smart LIMS architectures integrating AI and M2M communication, and smart meteorological monitoring systems.

Overwhelming Participant Approval

The report, compiled from 111 participant responses, highlighted good operational coordination.

Participants commented on the rapid barcode registration process, high-quality conference kits (notably the embroidered delegate bags), prompt secretariat support, and rich networking opportunities during the Fellowship Night co-hosted by the Tourism Promotions Board (TPB) Philippines.

International Participant's Testimonial:

"It was a truly perfect organisation: effective, warm. Congratulations to DOST-ITDI for bringing IMEKO to the Philippines!"

Cultural Heritage Tour & Looking Ahead

The event concluded on Saturday, 29 August 2026, with the Best Poster Awards sponsored by Informatics, closing remarks from DOST-ITDI leadership, and an invitation extended by LOC Chair Admer Rey C. Dablio to the upcoming IMEKO World Congress 2027. To round out the programme, foreign delegates experienced a curated Cultural Heritage Tour of the Arts and Culture of the Philippines through the National Museum of the Philippines, located in the City of Manila. The foreign delegates were not deterred by the heavy rain from exploring Philippine arts.

The resounding success of the IMEKO TC8-TC11-TC24 Joint Conference 2026 solidifies DOST-ITDI's leadership in advancing measurement science and analytical testing, elevating National Quality Infrastructure (NQI), and positioning the Philippines as a vibrant hub for global scientific collaboration. The Conference Chairperson expressed sincere thanks to all participants (local and foreign delegates), IMEKO TC officers, plenary speakers, institutional partners, sponsors, exhibitors, suppliers, and members of the Local Organising Committee for the success of the first IMEKO conference in the Philippines.

SUPPORTING THE NEXT GENERATION OF UKRAINIAN METROLOGISTS: THE 3RD EUROPEAN COMPETITION AND ITS GROWING ALUMNI COMMUNITY



On 23-25 June 2026, young metrology professionals from across Ukraine gathered in Ivano-Frankivsk for the 3rd European Competition of the Best Young Metrologists in Ukraine. Now in its third year, the Competition has become an important platform for young specialists to present their professional and scientific work, exchange ideas with international experts, and strengthen their links with the wider European metrology community.

SE "Ivano-Frankivskstandardmetrology", the Ministry of Economy and Environment of Ukraine, and the German National Metrology Institute, Physikalisch-Technische Bundesanstalt (PTB), organise the Competition. Its aim goes beyond identifying the strongest presentations: it seeks to motivate a new generation of Ukrainian metrologists, create opportunities for their professional development, and give promising specialists greater visibility and contact within the national and European quality infrastructure community.

The competition was held in a hybrid format. Participants presented their work on-site in Ivano-Frankivsk, while members of the international Selection Committee joined remotely. The presentations were also streamed online for a wider professional audience.

English was used as the working language, giving participants an additional opportunity to develop their ability to communicate technical subjects in an international professional environment.

A key feature of the Competition was its European Selection Committee, whose members bring expertise from EURAMET metrology institutions. In 2026, the Committee consisted of Michela Segal from Italy's National Metrology Institute (INRiM) – Petra Milota from Austria's Federal Office of Metrology and Surveying (BEV); Hans Peter Andres from the Swiss Federal Institute of Metrology (METAS); Jan Johansson from Research Institutes of Sweden (RISE); and Wolfgang Schmid from Germany's Physikalisch-Technische Bundesanstalt (PTB). Their questions, professional feedback, and encouragement are an essential part of the Competition, giving participants the opportunity to discuss their work directly with experienced European experts.

Over the three days, the young specialists presented research, practical developments, and approaches across different areas of metrology and measurement. The competitive element provided motivation, but the event's value was equally evident in the participants' growth. Over the course of the Competition, they gained confidence in presenting and defending their work, exchanged experiences with colleagues from other institutions and regions, and built connections that could continue long after the final awards were presented.

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This community dimension has become increasingly important as the Competition has grown. Since its first edition in 2024, it has brought together young professionals, researchers, and students representing different regions and institutions in Ukraine. The Competition therefore contributes not only to individual professional development but also to strengthening the human capacity needed for the future of Ukrainian metrology and quality infrastructure.

The next step in this development came on 27-28 August 2026, when 32 participants from the 2024, 2025, and 2026 editions gathered in Kyiv for the first joint Alumni Meeting. Its purpose was to help the community established through the Competition grow into a sustainable professional network. The alumni met representatives of the Technical Regulations Department of the Ministry of Economy and Environment of Ukraine and the National Accreditation Agency of Ukraine. They visited SE "UKRMETRTESTSTANDART", Ukraine's newly assigned National Metrology Institute. They also exchanged professional experience and worked together on their vision of what Ukrainian metrology could look like by 2035.

The Alumni Meeting also demonstrated the resilience of this young professional community. It took place during prolonged Russian attacks and air alerts, with parts of the programme continuing in the hotel shelter. Nevertheless, the participants remained engaged in discussions, professional exchange, and networking activities. The closing session was joined by members of the Selection Committees of the

2024-2026 editions of the Competition: Elsa Batista from Portugal, Wolfgang Schmid from Germany, Jan Johansson from Sweden, Anatolii Bescupschi from Moldova, and Jan Conrad Petersen from Denmark. Their participation created an important connection between the three editions of the Competition and the alumni network that has grown from them, while also giving the young metrologists another opportunity to remain connected with experienced colleagues from the wider European metrology community.

After three editions, the European Competition of the Best Young Metrologists in Ukraine has become considerably more than a three-day professional contest. It gives young specialists a platform to demonstrate their competence, test their ideas in discussion with international experts, build confidence, and establish relationships across institutions and regions. The Alumni Meeting showed the longer-term result of this work: a growing community of young professionals who can learn from one another and contribute together to the development of Ukrainian metrology.

At a time when Ukraine is strengthening its quality infrastructure and preparing for EU accession, investing in this new generation of specialists is particularly important. Modern laboratories, measurement capabilities and institutions ultimately depend on qualified and motivated people. By supporting young metrologists today, the Competition is helping build the professional community that will shape Ukrainian metrology in the future.

Written by the Organising Committee of this event

3RD EUROPEAN COMPETITION OF BEST YOUNG METROLOGIST IN UKRAINE

Name	Paper	Institution
Vitalii Tkachuk	Metrological Reliability and Economic Implications of H2NG Custody Transfer Metering: An Adaptive Thermal Anemometry Approach	Ivano-Frankivsk National Technical University of Oil and Gas
Andrii Bachynskyi	Automated Calibration System with Digital Calibration Certificates Support	SE UKRMETRTESTSTANDART
Oleksandr Strashevskyi	Development Of Reference Materials for the Verification and Calibration of Blood Electrolyte Analysers	SE UKRMETRTESTSTANDART
Valeriia Sych	Calibration Of Climate Chambers that Control Humidity, Taking into Account Spatial Heterogeneity	SE KYIVOBLSTANDART-METROLOGY
Ivan Strilets	Daily Calibration of the CNT-91 Frequency Counter in Accordance With ISO/IEC 17025 Using a Time and Frequency Standard	National Scientific Centre "Institute of Metrology"
Anastasiia Tychyna	Implementation ISO/IEC 17025 Requirements in Industrial Metrology Laboratories to Ensure Gas Preparation Process Safety	JSC "Ukrigasvydobuvannya" Branch Gas and Gas Condensate Processing Division
Andrii Tkachuk	Digital Calibration Certificate as a Tool for Implementing MID and NAWID Directives in The Metrological Assurance System of Ukraine	Ivano-Frankivsk National Technical University of Oil And Gas
Diana Lytvynova	Information And Measurement System for Collecting and Processing Data on the Technical Condition of the Aviation Brigade's Measuring Equipment	Junior Researcher, Scientific Research Department of Military Standards, Armed Forces of Ukraine

OVERVIEW OF THE COMING IMEKO CONFERENCES 2026-2027

1. TC4 Measurement of Electrical Quantities Conference with a Special TC11 Measurement in Testing, Inspection and Certification Technical Session, 16-18 September 2026, Prague, Czechia. [Website](#)
2. IMEKO TC7 Measurement Science, TC11 Measurement in Testing, Inspection and Certification, TC13 Measurements in Biology and Medicine, and TC21 Mathematical Tools for Measurements Conference Trusted Measurement, Trusted Analysis – Supporting Science-based Decision-making (incorporating Advanced Mathematical and Computational Tools in Metrology (AMCTM 2026), 27- 29 October 2026, Faro, Portugal. [Website](#)
3. TC10 20th Conference on the "Measurement for Diagnostics, Optimization and Control to Support Competitiveness and Innovation", 28-29 September 2026, Lisbon, Portugal. [Website](#)
4. TC17 ISMCR 2026, 27th International Symposium on Measurement and Control in Robotics, 17-18 September 2026, Rio de Janeiro, Brazil. [Website](#)
5. TC20 Measurements of Energy and Related Quantities, ICME 2026, International Conference on Measurement of Energy, 7-9 October 2026, Sohra, Meghalaya, India. [Website](#)
6. TC26 International Conference on Metrology for Archaeology and Cultural Heritage - MetroArchaeo, 14-16 October 2026, Bari, Italy. [Website](#)
7. XXV IMEKO World Congress, "Metrology for Humanity", 30 August-3 September 2027, Rimini, Italy. [Website](#)

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