

# IMEKO NEWSLETTER

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DEAR FRIENDS, AND COLLEAGUES,

We have an exciting IMEKO year ahead of us!

Nine Technical Committee conferences are being planned, with at least three more expected this year.

The World Congress Rimini 2027 is also advancing, with key dates revealed.

IMEKO received new membership applications from the University of Science and Technology of South Korea, the Department of Science and Technology Industrial Technology Development Institute (DOST-ITRI) in the Philippines, and the National Metrology Institute VSL from the Netherlands, with additional applications anticipated.

The Confederation will celebrate the 70<sup>th</sup> General Council Sessions in 2026, our annual gathering, this time hosted by the National Institute of Metrology (Thailand), NIMT, on 24-25 August 2026 in Bangkok, Thailand.

In this issue, notable features include interviews and introductions, such as one with longtime IMEKO member Vladimir Haas. Meet David Macii, who has recently joined the team organising the World Congress. EMERSON showcases its industrial perspective from Romania. IMEKO reaches out to Young Scientists, this time featuring Kamil Herman. Valentina Bello shares her thoughts on IMEKO from the perspective of young scientists. There is content regarding Acta, updates on IMEKO publishing, and the important dates for the World Congress.

The list of events for 2026-2027 and the list of members recently joined close the Newsletter.

ALL THERE IS TO KNOW ABOUT ACTA IMEKO THE IMEKO ONLINE JOURNAL

The fourth (last) issue of Acta IMEKO for 2025 has recently been completed, and the editorial team is already actively working on the first issue of 2026.

Let us briefly pause to summarise some of the most important aspects of Acta IMEKO.



The Editor-in-Chief, Francesco Lamonaca, who is deeply passionate about the Journal, has provided us with this overview.

*Since the first publication of Acta IMEKO in 2011, many changes have occurred. Could you briefly summarise the most significant ones?*

Certainly. The most important developments include:

- The introduction of a DOI (Digital Object Identifier) for every article in 2016.
- Indexing in major scientific databases: Scopus (since 2013), Web of Science (articles published from 2022 onward, starting with Volume 11, Issue 1, included in the Emerging Sources Citation Index), and the Directory of Open Access Journals (DOAJ) since 2022.
- A steady increase in the Journal's impact. Acta IMEKO has remained in the third quartile according to SJR since 2021 and has recently reached the second quartile in Scopus rankings (2025 data to be released in May).
- The replacement of the text-based Open Journal System (OJS) with a modern user interface in 2022.

- A substantial increase in the number of published articles per issue, from 10-20 before 2020 to 20 - 40 in recent years.

Today, the primary mission of Acta IMEKO is to support IMEKO's academic activities by ensuring wide dissemination of scientific results in the field of measurement, particularly – but not exclusively – those originating from IMEKO Technical Committee events.

*This is all quite an achievement! Many people may not know that Acta IMEKO follows a Diamond Open Access model. Could you briefly explain what this means?*

Acta IMEKO is a Diamond Open Access journal, meaning there are no article processing charges or submission fees. All content is freely and immediately accessible. This model is based on the principle that unrestricted access to research fosters global knowledge exchange.

*This sounds great.*

*Is it true that reviewers and editors work on a voluntary basis?*

Yes, that is correct. Although the work is demanding, it is highly rewarding as a contribution to the scientific community. IMEKO Technical Committees play a crucial role: their Chairpersons serve on the Editorial Board, supported by additional volunteers. Of course, further contributions are always welcome.

*Would you say that any Technical Committee member who volunteers to review would be warmly welcomed?*

Absolutely. Reviewing manuscripts within one's own field offers early insight into the latest research developments. At the same time, authors greatly appreciate reviewers' constructive feedback, which helps improve the quality of their work.

ALL THERE IS TO KNOW ABOUT ACTA IMEKO, THE IMEKO ONLINE JOURNAL

Acta IMEKO adopts a single-blind peer-review process, in which reviewers know the authors' identities, while authors do not know who reviewed their manuscripts.

*Could you say a few words about the core editorial team?*

The core team includes me, Prof. Francesco Lamonaca, Editor-in-Chief since 2021; Dr. Dirk Röske, one of the Journal's founders and currently an Associate Editor; and Dr. Leonardo Iannucci, who supports the Editor-in-Chief in all editorial matters.

*Thank you for the introduction!*

*Could you explain the difference between Special Issues and Thematic Issues to the reader?*

Acta IMEKO publishes four regular issues per year, each comprising one or more tracks. Thematic sections linked to IMEKO events are referred to as "Special Issues." Papers not related to IMEKO events (freely submitted papers) may be published in the General Section of a regular issue. To accommodate the growing number of submissions in specific areas and to encourage expert engagement, the "Topic of Interest Collection," also known as a "Thematic Issue," has been introduced as a complement to Special Issues and the General Section.

*Thank you for clearing this. Talking about the Journal's progress, what are the latest developments at Acta IMEKO?*

The LaTeX template for Acta IMEKO is now fully operational, significantly facilitating manuscript preparation for authors. The number of reviewers has increased, and publication times have decreased; further reductions remain a key objective.

Additionally, an anti-plagiarism check has been implemented at the initial stage of the review process.

*How do you see the near future of Acta IMEKO?*

The number of submissions continues to grow. We are committed to further enhancing the Journal's scientific reputation and editorial quality, which entails applying increasingly rigorous acceptance criteria.

Authors interested in submitting manuscripts are encouraged to consult the "About the Journal" section for policies and the "Online Submissions" page for detailed author guidelines. Both Word and LaTeX templates are available, along with a video tutorial guiding authors through the five-step submission process.

Readers may register for publication notifications on the Journal's homepage to receive the Table of Contents for each new issue by email. Librarians are encouraged to include Acta IMEKO in their electronic journal collections.

Finally, several awards have been established to recognise outstanding contributions from authors and reviewers. These include the Best Paper Award, Outstanding Paper Award, Best Reviewer Award, and Top Reviewers Award. The selection is based first on transparent, objective bibliometric indicators, and then on peer-review evaluations received during the editorial process, ensuring fairness and impartiality.

*Written by the Acta Editorial Team.*

## IMEKO JOURNALS PUBLISHING NEWS

### Elsevier published Journal's Discounts:



IMEKO-affiliated authors are eligible for specific discounts in the Elsevier journals, according to the following details: In the long term, there is a 30% discount on article processing charges (APC) for IMEKO Member Organisations and Technical Committee members for the following journals:

- Measurement: Digitalisation,
- Measurement: Food,
- Measurement: Sensors,
- Measurement: Energy.

Additionally, there is an extra discount for:

- Measurement: Digitalisation, the APC is waived entirely until 31 December 2026.
- Measurement: Energy, APC is discounted by 50% until the 31<sup>st</sup> of December 2026.
- Measurement: Sensors, this Journal participates in the Geographical Pricing for Open Access (see more details at [Journal pricing Elsevier policy](#))

### IMEKO World Congress Proceedings and Special Issue



Accepted papers will be published in the conference proceedings on the IMEKO website in open-access format. A selection of papers will also be recommended for further publication in peer-reviewed journals as extended versions.

### Important Dates

- Proposal submission for Special Sessions: opens on 1<sup>st</sup> of March, and closes on 31<sup>st</sup> of August 2026.
- Submission of Extended Abstracts (min. 4 pages): opens on the 15<sup>th</sup> of October, 2026, and closes on the 15<sup>th</sup> of January, 2027.
- Notification of Abstract acceptance: 28<sup>th</sup> of February, 2027.
- Submission of Revised Full Paper (max. 6 pages): opens on the 3<sup>rd</sup> of May, 2027, and closes on the 18<sup>th</sup> of May, 2027.
- Submission of Final Full Paper (max. 6 pages): opens on the 25<sup>th</sup> of May, 2027, and closes on the 15<sup>th</sup> of June, 2027

## IMEKO GOES TO YOUNG SCIENTISTS



Ing. Kamil Herman is currently a PhD student of the Electrical Engineering and Communication doctoral programme at the Faculty of Electrical Engineering, Czech Technical University

in Prague. He obtained both his Bachelor's and Master's degrees in Cybernetics and Robotics at the same Faculty. His Bachelor's and Master's theses, which focused on smart home systems and multisensor platforms for physiological signal monitoring, were supervised by Assoc. Prof. Ing. Jakub Svatoš, Ph.D.

Already during his Master's studies, he emphasized the close connection between theory and practice. He gained professional experience in several technical positions. A significant milestone in his career was his involvement with the HWlab technological and educational centre, where he served as a lecturer in modern technologies such as 3D printing, virtual reality, and IoT. At the same time, he founded and led the local IoT section.

During his doctoral studies at the Department of Measurement at CTU, he became a member of a research group led by Assoc. Prof. Jakub Svatoš. His primary research focus is on acoustic detection and localization, though his expertise extends beyond this. Starting this year, he has been involved in a Škoda Auto project aimed at enhancing vehicle cybersecurity, and he is also participating in a project focused on drone detection. In addition to his research activities, he actively contributes to teaching the Electrical Measurements course.

*What inspired you to choose your career path?*

I completed my secondary education at a technical high school specializing in electrical engineering in Chomutov.

After graduation, I considered several technical universities in the Czech Republic, but ultimately chose the most renowned technical institution, the Czech Technical University in Prague, Faculty of Electrical Engineering, where I later obtained both my Bachelor's and Master's degrees.

After completing my Master's studies, I had to decide on my future career path. The key motivation for continuing in academia was the long-term cooperation and mentorship of the above-mentioned Associate Professor. Another important factor was my previous experience working in an educational centre, which showed me that sharing knowledge with others comes naturally to me and is something I would like to pursue further.

*How are your research and study supported by the Czech system?*

The primary form of support is the doctoral scholarship provided by the University and the state. Another important source is the Student Grant Competition, which allows funding of research-related expenses, such as equipment or manufacturing materials. Additionally, collaboration projects with industrial partners and other organizations play a significant role. Together, these forms of support enable me to focus entirely on my research, without the need for additional employment.

*What kind of facilities and support does the University provide?*

In addition to research opportunities within various projects, the University offers excellent infrastructure, including well-equipped laboratories with extensive possibilities for experimentation and development. Whenever specific equipment or resources are needed, they can usually be arranged without difficulty.

## IMEKO GOES TO YOUNG SCIENTISTS

A major advantage is also the presence of leading experts across a wide range of fields, who are always willing to provide guidance and share their knowledge.

*How would you like to develop your career in the future?*

As I am still at the beginning of my doctoral studies, I plan to remain in the academic and research environment in the near future, which is also reflected in my involvement in several projects starting at the beginning of this year. In the longer term, my career path will depend on future opportunities; however, the skills and experience gained during my studies should allow me to pursue a career either in industry or as an independent entrepreneur.

My long-standing ambition has been to work with modern technologies that shape the everyday lives of all of us. During my studies, I therefore focused on measurement technologies, which are nowadays an integral part of virtually all the devices around us, from mobile phones and automobiles to intelligent buildings.

At present, I consider the greatest advantage of doctoral studies to be the opportunity to further deepen, expand, and practically apply the knowledge acquired during previous studies, as well as the possibility of enjoying an affordable soup at the university cafeteria.

*What do you expect from IMEKO membership?*

I believe that IMEKO membership will allow me to broaden my professional horizons, establish international contacts, and gain opportunities for international collaboration, whether through joint projects, conferences, or research studies abroad. In particular, I **plan to participate in the TC4 IMEKO Conference**, which will take place in Prague on 16 - 18 September this year and will focus on the measurement of electrical quantities.



*(In the picture, Kamil Herman with student Michal Bršťák.)*



*Kamil Herman loves travelling. He recently toured Asia for 3 months.*

*Written by Kamil Herman, a PhD student of the Electrical Engineering and Communication doctoral programme at the Faculty of Electrical Engineering, Czech Technical University in Prague.*

## DR. VALENTINA BELLO ON YOUNG SCIENTISTS



A while back, the IMEKO [Newsletter](#) introduced a new section titled "IMEKO Goes to Young Scientists," seeking to connect IMEKO with emerging professionals by highlighting their aspirations and challenges as they progress in their careers. IMEKO will continue its mission and vision for 2030, maintain the involvement of young scientists, and sustain its legacy.

IMEKO, through its Working Groups assigned special tasks, is continually striving to enhance the organisation's overall functioning.

The Confederation is developing an action plan for young scientists to engage them through dedicated activities.

Prof. Luigi Rovati introduced Junior Membership, a new category of membership in Technical Committee 2 dedicated to Photometry. Dr. Valentina Bello was the first Junior member that the TC welcomed. She was introduced to the IMEKO Community in the previous Newsletter.

We had an inspiring follow-up conversation with her.

*Dr. Bello, you seem very at ease with the questions of young scientists' active roles and place within a worldwide organisation. Could you tell a bit about your experiences?*

My involvement in international scientific communities started during my Ph.D., particularly through IEEE activities.

For several years, I served as Chair of the IEEE Student Branch at the University of Pavia. This experience allowed me to actively engage with young researchers and students, and to better understand their needs, expectations, and motivations. The role gave me first-hand insight into how important it is for young scientists to be actively included rather than simply observing from the sidelines. Through these experiences, I realised that young researchers can contribute not only with fresh ideas but also with energy, curiosity, and a strong motivation to build bridges across disciplines and generations. This commitment was also personally rewarding, as it led me to receive the 2021 IEEE Photonics Society Graduate Student Scholarship Award, established to support graduate students who have made outstanding contributions in photonics.

*This is very impressive indeed. Are you still active at IEEE?*

Yes, I am still active within IEEE. I regularly participate in IEEE seminars and conferences. In addition, I currently serve as Secretary of the IEEE Professional Communication Society Italy Chapter. This role allows me to remain closely involved in community-building activities and to contribute to initiatives that support effective science dissemination and communication.

*IMEKO introduced the Junior Membership category in TC2, but all the TCs have young people on board; in fact, IMEKO would certainly be happy to welcome and support more young scientists!*

IMEKO certainly has a lot to offer to young scientists, both in terms of scientific growth and community building.

## DR. VALENTINA BELLO ON YOUNG SCIENTISTS

In this spirit, the establishment of an IMEKO Working Group for Young Scientists in Measurements (IMEKO-WYSM) would be great. This could be a transversal initiative involving all IMEKO TCs and aiming to bring together young scientists who are already active within IMEKO, as well as those who would like to become involved. The goal of IMEKO-WYSM could be to give young researchers more space and visibility within the Confederation, to collect and share their ideas, and to create opportunities for networking and collaboration across different measurement fields. By fostering connections and encouraging active participation, this working group could represent an important first step toward strengthening the role of young scientists within IMEKO.

*Could you name a couple of challenges young scientists are facing? How could IMEKO be of any support in these?*

One of the main challenges young scientists are currently facing is the strong competition in securing research funding, which requires not only scientific excellence but also the ability to build solid and competitive project proposals. Early-career researchers often need to be highly proactive while still consolidating their professional profiles. In this context, IMEKO could play a valuable supporting role by fostering initiatives to support project development, particularly in research proposals where measurements play a substantial and enabling role. Moreover, IMEKO could become a unique environment for connecting young scientists seeking peers and partners to jointly develop successful European and international research projects.

Another significant challenge concerns the role of researchers in a future where Artificial Intelligence is becoming increasingly pervasive. In data-driven and AI-based approaches, the quality, reliability, and traceability of data and measurements will be absolutely crucial.

In this scenario, IMEKO could play a key role in supporting young scientists by highlighting the central importance of measurements and by providing tools, guidance, and discussion forums to help them navigate this rapidly evolving landscape, which is still characterized by many new and open challenges.

*Could you spontaneously share some of your initial ideas that this group (IMEKO-WYSM) could do?*

One of the very first ideas is to connect young scientists with each other. Building relationships and fostering dialogue is essential because only by creating a space for open interaction can we lay the fertile ground for new ideas and future collaborations. For instance, I was positively surprised by the strong emphasis on social and networking events at SPIE Photonics West in San Francisco that I attended last month. Young researchers had many opportunities to meet, exchange experiences, and start building their professional networks in an informal setting.

Inspired by this experience, the first concrete idea for IMEKO-WYSM could be to create dedicated spaces for young scientists within major IMEKO events, such as the 2026 IMEKO TC1 and TC2 Symposium - IMEKO PHOTOMET EDUMET 2026 that will take place in Klagenfurt from the 31<sup>st</sup> of August to the 2<sup>nd</sup> of September. The aim would be to offer moments specifically designed for young participants to meet, get to know one another, and initiate dialogue, thereby taking the first steps toward a more connected and collaborative young IMEKO community.

*Dr. Bello, thank you so much for your time and for sharing your insights!*

It was my pleasure. I really look forward to meeting as many young scientists as possible and starting to collaborate with them on exciting initiatives!

INTRODUCING DAVID MACII, TECHNICAL PROGRAMME CHAIRPERSON OF THE IMEKO WORLD CONGRESS, RIMINI, 2027



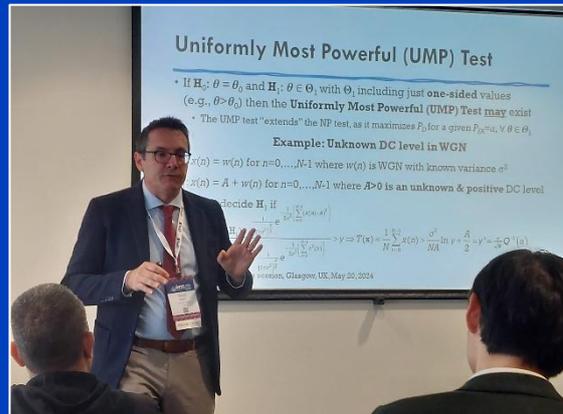
The IMEKO World Congress in Rimini 2027 is approaching, and the organising team is very engaged. David Macii is on the team as one of the Technical Programme Chairpersons.

*Could you tell us briefly about your professional journey?*

My research journey began during my doctoral studies at the University of Perugia, Italy, where I completed my Ph.D. in Information Engineering in 2003, working on performance analysis and optimal management of data acquisition systems. Honestly, at that time, I did not originally see myself staying in academia. In fact, I was keen on electronics, especially digital electronics and embedded systems, which led me to pursue a Master of Advanced Studies in Embedded Systems Design at ALaRI, University of Lugano, Switzerland. When I later joined the University of Trento, Italy, as an Assistant Professor in electrical and electronic measurements. I decided to focus my research on the integration of measurement technologies and embedded systems. For about a decade, I worked on wireless sensor networks, addressing challenges such as distributed time synchronization, indoor localization, and multisensor data fusion. More recently, after joining the Department of Industrial Engineering at the same University as an Associate Professor, my research has expanded into industrial electronics and power systems. I have found the field of synchronized and distributed measurements for smart grids particularly interesting, not only because it allows me to apply my background in digital signal processing to challenging measurement and estimation problems, but also because of its significant societal impact in supporting the energy transition.

*What are you most passionate about regarding your work?*

What I am most passionate about in my work at the University is its diversity: no two days are the same, and there is rarely time to get bored 😊, even if bureaucracy has unfortunately become more demanding over the years, at least here in Italy. Teaching, in particular, allows me to stay close to students and to see them grow into professionals, which somehow makes me feel a little younger as well. In recent years, I have also come to appreciate the role of science communication: the idea of conveying scientific concepts through emotions resonates strongly with me, and this led me to follow the "Open Mike" dedicated programme at the University of Trento, where I explored how to write and perform short, personally-inspired stories with a theatrical approach. Research, on the other hand, continually challenges me to address technical and measurement problems that are still only partially solved. The mix of challenge, discovery, frustration, and satisfaction of failing, learning, and eventually making progress is what makes research such a unique profession. As a colleague of mine once said, "An academic career is difficult, but it is still better than a normal job."



*In the picture, David Macii at the International Instrumentation and Measurement Technology Conference*

INTRODUCING DAVID MACII, TECHNICAL PROGRAMME CHAIRPERSON OF THE IMEKO WORLD CONGRESS, RIMINI, 2027

*What made you join the IMEKO World Congress 2027 team, and how did it happen?*

It may sound surprising, but in some ways, it was unexpected for me as well. Over the years, I have co-organised several international events in Trento in different roles. For instance, I served as a General Co-chair and Technical Programme Co-chair of the IEEE Workshop on Environmental, Energy, and Structural Monitoring Systems (EESMS) in 2013 and 2015. I was a member of the organising committee of the IEEE Italy Section School on Future Energy Systems in 2015 and 2016, and, most notably, of the Smart Cities Conference in 2016. That last experience was exhausting, and afterwards I decided to take a break from other major organisational commitments. However, when I heard that the IMEKO World Congress would be held in Rimini in 2027, I immediately felt that this was a professional opportunity I could not miss. So, I contacted the IMEKO President, Prof. Carbone, whom I have known since my student days in Perugia, and quite simply I said: "Paolo, if you are still looking for support, and if I can focus on the technical and scientific aspects only with no all-around organisational roles, I'm happy to help."

This is how my candidacy to serve as one of the Technical Programme Chairs began.

*Since when have you been on the team?*

I have been involved in organising the IMEKO 2027 World Congress since June 2025.

*Can you share something about your experience?*

What I particularly like about the IMEKO World Congress is its capability to offer attendees a nice blend of scientific visibility, networking opportunities, and interaction with industry.

It provides an outstanding platform for researchers to present their work to a truly international audience and to establish new collaborations across institutions and countries. At the same time, the presence of exhibitors can create a valuable bridge between metrology research and real-world applications, allowing participants to engage directly with companies and experience emerging solutions in measurement science. From a scientific perspective, the Congress also promotes excellence by highlighting high-quality contributions: the best papers are typically selected, and their authors are invited to submit extended versions for special issues of leading journals, such as the IMEKO journal Measurement and Acta IMEKO.

*What aspects of this event do you find particularly significant?*

The IMEKO World Congress is one of the largest, global conferences on measurement science and technologies, if not the largest at all. It spans virtually all areas of measurement science. For the 2027 edition, we are also planning special sessions dedicated to emerging, niche, and cross-disciplinary topics that cut across multiple Technical Committees. This breadth is what makes the Congress truly unique. For these reasons, I believe the event's relevance speaks for itself, and I am both honoured and proud to be part of it. I will do my best to contribute to the event's success.

*Thank you very much for your time. We wish you much success with the organisation and look forward to this event and to meeting you there.*

*IMEKO's questions were answered by David Macii, Technical Programme Chairperson of the IMEKO World Congress Rimini 2027.*

## INTRODUCING PROFESSOR VLADIMIR HAASZ



I was born in Prague, Czechoslovakia, in 1949, and have lived there (except for one year of military service) till today. After completing basic education, I began my secondary school studies in a class specialising in mathematics and physics. Thanks to this direction, I spent one month at the Czechoslovak Institute for Normalization and Measurement (now the Czech Metrology Institute) during the holidays before my final year. It predetermined my following orientation.

After leaving secondary school in 1967, I began studying at the Faculty of Electrical Engineering, Czech Technical University in Prague, in the branch of Technical Cybernetics. From the 3<sup>rd</sup> year, I focused on Measurement Technology. My diploma thesis, on error estimation for inductive dividers, was defended in 1972. Subsequently, I joined the Department of Measurement at the same Faculty as an Assistant Professor. In 1977, I defended my doctoral thesis on the design and error analysis of digitally controlled inductive dividers and was appointed a Senior Lecturer.

I led laboratory exercises in electrical measurement and concurrently worked with the application of inductive dividers. My results in this area were published at the IMEKO World Congress in 1979 in Moscow. It was my first get-together with the IMEKO organisation. The second one was in 1987, at the TC4 symposium in Warsaw. There, I presented my paper "The Digital Measurement of Non-Sinusoidal Waveform Parameters." At that time, I had already been involved in this field for several years.

Unfortunately, only the IMEKO events that took place in the East of the Iron Curtain were among the few scientific events in which non-privileged people could participate. It was a significant contribution by the IMEKO organisation, enabling scientists from Eastern European countries to meet the rest of the world.

Fortunately, the Velvet Revolution in 1989 brought about significant changes. In 1990, I promptly took part in the IMEKO TC1 dedicated to Education and Training in Measurement and Instrumentation symposium in Karlsruhe (for the first time in Western Europe), and I published a paper concerning education, titled "The Software for the Support of Subject 'Measurement Theory' part 'Sampling Methods'". Concurrently, I have continued my research on sampling methods for measuring non-harmonic signals. These research activities, along with the changes following the Velvet Revolution, enabled me to write and defend my habilitation thesis and to be appointed as an Associate Professor in measurement and instrumentation in 1991.

The opportunity to meet with Prof. Schumny from PTB in 1990 enabled me to collaborate with him on the joint project "Investigation of PC instruments (real and virtual) for precise measurement concerning hardware and software integration, and development criteria for this purpose." It led me to the area of ADC testing, and I participated in the activities of the IMEKO TC4 Working Group on ADC and DAC Metrology, which emerged at that time. During my participation in the TC4 events, I had the opportunity to get to know Prof. Weiler, the first Chairman of TC4.

This led to spending half of 1994 in his working group at ETH Zürich, made possible by a Swiss government stipend within the framework of aid to Eastern European universities.

## INTRODUCING PROFESSOR VLADIMIR HAASZ

It was highly beneficial for me, not only in the scientific field, but also in the realm of educational systems and teaching organisations in Western European universities. It has helped me immensely in my work as Head of the Department of Measurement at the Faculty of Electrical Engineering, CTU in Prague (1997-2008, 2011-2014).

In the 1990s and later, I actively participated in several IMEKO TC4 activities, including the IMEKO TC4 Working Group on ADC & DAC Metrology. From 1995, I participated in organising the EUPAS project and, naturally, the TC4 symposia, workshops, and conferences. At the same time, in collaboration with Prof. Sedláček, we established the Czech National IMEKO Committee to ensure comprehensive coverage of all IMEKO-related activities in the Czech Republic. I was a member of the Executive Board until 1996. Following the conclusion of Professor Sedláček's tenure on the Czech National IMEKO Committee, I also represented the Czech Republic in TC4. Thanks to all these activities and research results, I was appointed as a Full Professor in measurement and instrumentation at CTU.

We organised the first greater event in the Czech Republic in 1995 (the 7<sup>th</sup> International IMEKO TC4 Symposium on Modern Electrical and Magnetic Measurement), then, in 2002, the 4<sup>th</sup> International Conference on Advanced A/D and D/A Conversion Techniques and their Applications (together with the 7<sup>th</sup> IMEKO TC4 Workshop on ADC Modelling and Testing). The most significant event in the organisation of which I participated was the XXI IMEKO World Congress in 2015 in Prague. Additionally, I participated in nearly all IMEKO World Congresses and TC4 symposia from 1993 to 2015, publishing 31 papers at these events during this period.

After partially retiring in 2016, I have gradually reduced my professional activities, particularly in research and teaching, to have more time for my hobbies (hiking and cycling in summer and cross-country skiing in winter) and for my personal life with my wife and grandchildren. I was able to do it easily because I have prepared a nifty successor, Associate Professor Jakub Svatoš. He has gradually taken over both teaching the introductory course in Measurement and Instrumentation and my IMEKO activities.



*Written by Prof. Vladimir Haasz, TC4 Measurement of Electrical Quantities, member and cofounder of the Czech National IMEKO Committee, and member of the Executive Board until 1996.*

**EMERSON: ADVANCING MEASUREMENT, AUTOMATION, AND INDUSTRIAL RELIABILITY WORLDWIDE**



For 135 years, Emerson has been helping industries solve some of the world's most complex engineering and operational challenges. Founded in 1890 in St. Louis, Missouri (United States of America) as Emerson Electric Manufacturing Company, the organisation has evolved from a small electric motor and fan manufacturer into a global technology and engineering leader.

Today, Emerson operates in over 150 countries, combining deep domain expertise, advanced measurement technologies, and digital innovation to support safe, efficient, and sustainable industrial operations worldwide.

For members of the measurement and instrumentation community interested in exploring how these technologies are applied in real industrial environments, Emerson Exchange 2026 offers a forum dedicated to technical knowledge sharing, peer discussion, and applied case studies: [Emerson-exchange-2026](#)

**What Emerson Does**

Emerson provides automation solutions, measurement technologies, industrial software, and engineering expertise that enable customers to design, operate, and maintain critical industrial processes with precision and confidence.

At the heart of Emerson's portfolio are solutions that support:

- Measurement and instrumentation
- Process control and automation
- Pressure and safety management
- Final control and actuation
- Industrial software and digital transformation

These solutions are applied in environments where measurement uncertainty, repeatability, and long-term stability directly influence operational safety and performance.

Many of these topics—ranging from field instrumentation to digital diagnostics—are examined in depth at Emerson Exchange, through technical presentations, practitioner-led sessions, and structured discussions focused on real operational challenges.

**Major Markets Served**

Emerson supports a wide range of industries where measurement science and instrumentation play a critical role, including oil and gas, chemical processing, power generation, hydrogen and sustainable fuels, life sciences, water and wastewater, and industrial manufacturing.

Across these markets, Emerson is particularly recognized for its expertise in pressure management and safety-related measurement applications, where accurate sensing and reliable control are essential to regulatory compliance and risk mitigation.

At Emerson Exchange, participants can review documented customer case studies illustrating how measurement strategies are implemented across diverse industrial sectors, offering valuable insight into practical trade-offs, validation approaches, and lifecycle considerations.

**EMERSON: ADVANCING MEASUREMENT, AUTOMATION, AND INDUSTRIAL RELIABILITY WORLDWIDE**

**Commitment to Measurement Quality and Safety**

Measurement accuracy and system reliability are foundational to Emerson's engineering philosophy. Solutions are developed to align with international standards, codes, and certification frameworks, ensuring consistent, traceable measurement performance across the asset lifecycle. In pressure and safety applications, in particular, Emerson technologies help ensure that operating limits are respected and monitored under demanding conditions. These challenges—central to both industrial practice and measurement science—form recurring themes in technical sessions and expert panels at Emerson Exchange, where lessons learned are shared in an open, professional setting.



**Industry-Academia Engagement: The IMEKO Visit to Emerson**

The recent IMEKO visit to Emerson's Cluj-Napoca (Romania) facility – the largest and most complex site in Europe – provided a valuable opportunity for direct exchange between the measurement science community and industrial practitioners.

During the visit, IMEKO representatives engaged with Emerson engineers and specialists to observe how measurement principles, calibration practices, and quality assurance processes are applied in real manufacturing and engineering environments.

Such interactions highlight the importance of continued dialogue between academia, research institutions, and industry—ensuring that theoretical advances in measurement science translate effectively into safe and reliable industrial solutions.

This type of engagement reflects Emerson's broader commitment to supporting knowledge transfer, education, and collaboration across the measurement ecosystem.



**Academic, Research, and Professional Networks**

Emerson maintains active collaboration with universities, technical institutes, and research organisations worldwide, supporting applied research, student development programs, and professional training in automation and instrumentation disciplines.

## EMERSON: ADVANCING MEASUREMENT, AUTOMATION, AND INDUSTRIAL RELIABILITY WORLDWIDE

Beyond formal partnerships, Emerson fosters professional exchange by encouraging participation in technical committees, conferences, and industry forums. Events such as Emerson Exchange complement these efforts by providing a structured environment for interdisciplinary dialogue between researchers, engineers, operators, and technology developers.

Emerson Cluj has built a strong, long-term partnership with the Technical University of Cluj-Napoca. Over the years, we've contributed to lab renovations at the Faculties of Building Services and Automation and Computer Science, co-developed a Master's program in Technical Project Management, and delivered specialized courses taught by our experts. We also proudly evaluate and award the best Bachelor's theses and welcome students for study visits to our premises—all part of our ongoing investment in the next generation of engineers and researchers.

Looking ahead, next year we will launch a new Dual Education Bachelor's program in collaboration with the Faculty of Automation and Computer Science. This program combines academic learning with hands-on training at Emerson, offering students a unique opportunity to gain real-world experience while completing their studies.

Every year, we organise internships and a summer Bootcamp for technical students, where top performers are offered the chance to join Emerson as junior engineers upon completion. Applications for the 2026 Emerson Bootcamp opened in January.

In addition, we work closely with technical student organisations, providing financial support and expertise for career-related events.

We also partner for our largest community event on-site: [We ♥ STEM Day](#) – a celebration of science for children and students. Last year, this event welcomed over 2,000 participants, including students and teachers.

### Looking Forward

As industries address the challenges of energy transition, sustainability, digitalization, and system safety, the role of accurate and reliable measurement continues to expand.

Emerson remains focused on advancing industrial measurement through robust engineering, digital innovation, and collaboration with the scientific community.

Researchers, engineers, and practitioners interested in engaging in technical dialogue, applied case discussions, and peer exchange are invited to participate in Emerson Exchange 2026, a conference-style forum dedicated to the practical application of measurement and automation technologies in industry:

[Emerson-exchange-2026](#)



*Written by the Emerson Team - Cluj-Napoca, Romania*

MR ADMER REY DABLIO INTRODUCES THE FIRST IMEKO CONFERENCE ORGANISED IN THE PHILIPPINES



Meet Mr. Admer Rey Dablio, who has been working at the Department of Science and Technology of the Industrial Technology Development Institute (DOST-ITDS) in Manila, the Philippines, for twelve

years as a Supervising Science Research Specialist and Quality Manager.

*Mr. Dablio, you will be the host of the next TC8 Traceability, TC11 Measurement in Testing, Inspection and Certification, and TC24 Chemical Measurements conference, organised from 26-29 August 2026 in Manila, the Philippines. Your dedication and enthusiasm are evident and contagious. It is a pleasure to meet you as an organiser! How did you learn about IMEKO, and what led you to organise this conference?*

I discovered IMEKO on LinkedIn, since I follow technical experts from Europe. Following this discovery, I applied to join TC11 Measurement in Testing, Inspection and Certification in 2021 and TC24 Chemical Measurements in 2024, as they align with my current job duties and responsibilities. I submitted research studies for presentation at their conferences. My first presentation was through the online platform during the pandemic.

*What does it mean to you, to DOST, to host this event and receive participants from all over the world?*

DOST-ITDI is not new to organising international scientific conferences. We are excited to host the joint conference of IMEKO TC8, TC11, and TC24, welcoming experts from around the world. We are excited to showcase the Filipino culture and hospitality.

Personally, I am thrilled to share the beauty of the Philippine Islands and the warm hospitality of the Filipinos with the world.

*What are your dream expectations regarding this conference?*

I pray that the conference will be very successful. I hope that it will establish networks for metrology, testing, inspection, and certification, expanding beyond a particular continent. I dream that this gathering in the Republic of the Philippines will further advance the initiatives and innovations of various economies through science and technology.

*What would you expect from your IMEKO membership, as an individual and as the representative of an institute?*

We do expect from our membership at IMEKO that more collaborative activities will be conducted. In the ASEAN (The Association of Southeast Asian Nations) region, Singapore, Thailand, and the Philippines are the only countries that have an IMEKO member organisation.

We hope to be the voice of the region in raising concerns about standardization, meteorological traceability, accreditation, and laboratory competence.

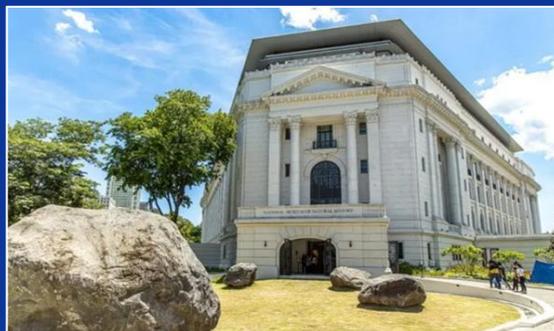


*In the picture, Intramuros, "The Walled City," the oldest district in Manila, is shown with the remains of the fortified city that was the seat of power during Spanish Colonial times (1521-1898).*

MR ADMER REY DABLIO INTRODUCES THE FIRST IMEKO CONFERENCE ORGANISED IN THE PHILIPPINES



In the picture, Fort Santiago. This museum and public park was built as a stone fortress at the turn of the 17<sup>th</sup> century and marked the beginning of the walled city's riverside barricades.



In the picture, the National Museum. This grand exhibit house features the country's most historic works of culture and national heritage, including the paintings of heralded Philippine artist Felix Resurreccion Hidalgo.



**IMEKO JOINT CONFERENCE**  
TC8-TC11-TC24  
PHILIPPINES 2026



**DOST-ITDI**  
INDUSTRIAL TECHNOLOGY  
DEVELOPMENT INSTITUTE  
OneDOST4U: Solutions & Opportunities for All



26<sup>th</sup> to 29<sup>th</sup> AUGUST 2026



Metro Manila, PHILIPPINES

“Leveraging INNOVATION for Future-Ready MEASUREMENTS for Industry, Health and Environment”

**ORGANIZERS**

**IMEKO TC Chairpersons**

**MICHELA SEGA**  
Istituto Nazionale di Ricerca  
Metrologica (INRiM), Italy (TC8)

**ÁLVARO SILVA RIBEIRO**  
National Laboratory for Civil  
Engineering, Portugal (TC11)

**TATJANA TOMIĆ**  
INA Industrija nafte d.o.o., Croatia  
(TC24)

**Local Organizing Committee**

**ANNABELLE V. BRIONES**  
**ADMER REY C. DABLIO**  
**MA. RACHEL V. PARCON**  
DOST-Industrial Technology  
Development Institute, Philippines

**IMPORTANT DATES**

15 MAR 2026  
Deadline for Abstract Submission

01 MAY 2026  
Full Paper Submission

01 JUN 2026  
End of Peer-Review

01 JUL 2026  
Submission of Final Manuscript

This international conference aims to gather experts both from industry and academia, covering different topics from the fields of ‘Traceability in Metrology’ (IMEKO TC8), ‘Measurement in Testing, Inspection and Certification’ (IMEKO TC11), and ‘Chemical Measurements’ (IMEKO TC24). Considering the wide interdisciplinarity of the three Technical Committees, many topics and metrological issues will be addressed during the Conference, including (but not limited to): certified reference materials, digitalization in Traceability, digital twins, quality management and conformity assessment in TIC Sector, chemical and biochemical sensors, gas analysis for climate change and energy transition, laboratory accreditations, and chemical metrology.

**CALL FOR PAPERS** <https://conferences.imeko.org/event/15/>

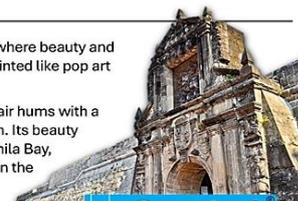
Authors are invited to **SUBMIT ABSTRACTS** of 250 words, related to the topics covered by the 3 IMEKO Technical Committees. After notification of acceptance, Authors will have the opportunity to submit a full paper (3 to 5 pages), to be published in the Conference Proceedings. All contributions will be peer-reviewed and acceptance will be based on quality, originality and relevance. **Accepted and presented full papers will be submitted for inclusion in Scopus after the event.**

After the Conference, selected Authors will be invited to submit an extended version of their papers to ‘Measurement’ or to ‘Acta IMEKO’. Additional information about post-conference special issues will be provided on the conference website.



**METRO MANILA** is a vibrant mosaic where beauty and culture collide in motion: jeepneys painted like pop art rumble past centuries-old churches,

glassy skyscrapers rise beside humble sari-sari stores, and the air hums with a mix of street food smoke, karaoke echoes, and restless ambition. Its beauty isn’t polished or quiet—it’s alive, found in sunset views over Manila Bay, in the warmth of people who smile easily and laugh loudly, and in the resilience woven into everyday life. Culture here is layered.



[f](#) [i](#) [in](#) #imekomanila2026

[info\\_manila2026@imeko.org](mailto:info_manila2026@imeko.org)



TC4 SPECIAL SESSION AT METROLOGIA 2025 - XVI SEMETRO BRAZIL



*In the picture from left, Paolo Carbone (IMEKO) and Rodrigo Felix (SBM/INMETRO)*

In the year marking 150 Years of the Metre Convention, the Brazilian Society of Metrology (SBM) proudly highlights its active engagement in the international metrology community through its collaboration with the International Measurement Confederation (IMEKO). In particular, SBM's contributions within IMEKO Technical Committee TC4 Measurement of Electrical Quantities underscore Brazil's commitment to advancing measurement science, fostering technical exchange, and supporting innovation in electrical measurements aligned with global standards and scientific excellence.

Organised by the Brazilian Society of Metrology (SBM), the METROLOGIA 2025 congress aimed to bring together people and institutions to build strategies focused on disseminating the culture of metrology and conformity assessment as essential factors for the sustainable development of our society. This edition of METROLOGIA 2025 consisted of 5 simultaneous congresses: CBM (XIII Brazilian Congress of Metrology), SEMETRO (XVI International Congress of Electrical Metrology),

CIMMEC (VIII International Congress of Mechanical Metrology), CBMRI (XI Brazilian Congress of Metrology of Ionising Radiation), and Remeq-I (VIII Workshop of the Chemical Metrology Network of INMETRO, the Brazilian National Metrology Institute). The XVI Semetro featured a special session of IMEKO TC4.

Thanks to Américo Tristão Bernardes (President of METROLOGIA 2025) and Rodrigo Pereira Barreto da Costa Felix (President of SBM and INMETRO researcher), and with the support of INMETRO, the Institute of Radiation Protection and Dosimetry (IRD), the Pontifical Catholic University of Rio de Janeiro (PUC-RJ), and the Federal University of Alagoas (UFAL), the conference was a great success, attracting 322 attendees from various countries. The following plenary sessions were delivered during the conference:

**The 1<sup>st</sup> of December**

Opening Plenary Session "Sustainability in Electronics", by Paolo Carbone, the President of IMEKO.

**The 2<sup>nd</sup> of December**

- Plenary Session 1:

"The New Era of Quality: A Quality Infrastructure for a New Century", by Marcos Heleno Guerson de Oliveira Junior (President of the Institute of Weights and Measures of the São Paulo State, Brazil);

- Plenary Session 2:

"The Entangled Tale of Metrology and Technology", by Barbara Goldstein (Associate Director of the Physical Measurement Laboratory, NIST);

TC4 SPECIAL SESSION AT METROLOGIA 2025 - XVI SEMETRO BRAZIL

The 3<sup>rd</sup> of December

- Plenary Session 3

"Ministry of the Environment (MMA)", by Rita Mesquita (National Institute for Amazonian Research/MMA);

- Plenary Session 4

"Education for Quality Infrastructure", by Tatiana Claro (Manager of the INMETRO Corporate University);

The 4<sup>th</sup> of December

- Plenary Session 5

"The Role of Chemical Metrology in Decarbonisation and Renewable Energy", by Annarita Baldan, National Metrology Institute of the Netherlands (VSL).

- Plenary Session 6

"Interdisciplinary Challenges in a Digital Multidisciplinary World", by Karla Balzuweit (Federal University of Minas Gerais State, Brazil).

Another highlight of the event was the M4DT (Metrology for Digitalisation) Panel, featuring Maik Liebl, National Metrology Institute of Germany (PTB); Agustina Viaggio, National Institute of Industrial Technology (INTI), Argentina; and Wilson de Melo Jr. (INMETRO). The panel offered valuable insights into how digital transformation and Artificial Intelligence are reshaping the future of metrology.

Hosted in Brazil, this conference stood as a milestone in the ongoing expansion of IMEKO's global presence, reaffirming the universal value of metrology beyond its European origins. By bringing together organisations and experts from diverse scientific domains, the event celebrated collaboration, knowledge exchange, and shared commitment to measurement science.

The connections forged during this gathering laid a strong and lasting foundation for future partnerships, reinforcing a collective vision of innovation, cooperation, and excellence in metrology worldwide.



*In the picture, some participants of METROLOGIA 2025*



*Written by Regis P. Landim (Inmetro) - Coordinator of the XVI International Congress of Electrical Metrology (SEMETRO) and Carlos R. Hall Barbosa, IMEKO TC4 Scientific Secretary (PUC-Rio), Coordinator of the XVI International Congress of Electrical Metrology (SEMETRO)*

FAREWELL TO DR. ZAFAR TAQVI



It is with deep sorrow that the IMEKO TC17 community announces the passing of Dr. Zafar Taqvi on 6 February 2026.

Dr. Taqvi was an internationally respected scientist and leader in measurement science, robotics, and systems engineering. For many years, he served as Chairperson of IMEKO Technical Committee TC17 Measurement in Robotics, playing a central role in strengthening its scientific direction and international presence.

He was also a Research Fellow at the University of Houston-Clear Lake. He had a distinguished professional career in the United States space program, contributing for more than four decades to major initiatives including Apollo, Skylab, the Space Shuttle, and the International Space Station. Throughout his career, he actively supported international conferences and webinars, promoted knowledge exchange, and mentored young professionals, always encouraging engagement within the scientific community.

Within IMEKO, Dr. Taqvi was instrumental in the history of TC17 and the International Symposium on Measurement and Control in Robotics (ISMCR). TC17 was formally established in 1988 during the IMEKO World Congress in Houston, when Prof. Susumu Tachi was appointed Chair and Dr. Taqvi Scientific Secretary. From the outset, he helped define the committee's vision, structure, and long-term activities.

Together with Prof. Tachi, he contributed decisively to the development of ISMCR, expanding its scope beyond "Measurement" to include "Control," shaping the symposium's distinctive and comprehensive character. The first ISMCR was held in Houston in 1990. with Dr. Taqvi serving as General Chair, followed by Tsukuba in 1992.

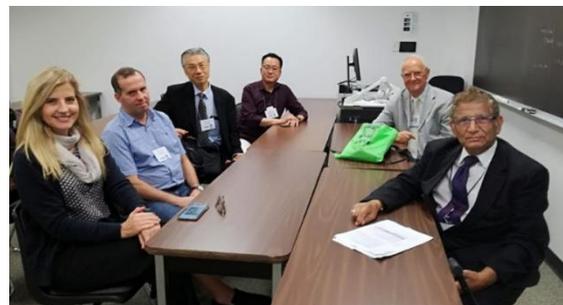
Since then, ISMCR has grown into one of IMEKO's most established and enduring symposium series.

For more than three decades, Dr. Taqvi dedicated himself to TC17 and ISMCR. He encouraged participation, fostered collaboration, and remained actively engaged even during challenging periods, always committed to strengthening TC17's sense of community and supporting the next generation of researchers.

Beyond his professional achievements, colleagues remember Dr. Taqvi for his warmth, generosity, and genuine interest in people. He welcomed new members, encouraged their contributions, and created an atmosphere of respect and cooperation. His leadership combined calmness, clarity, and steady commitment, leaving a lasting mark not only on the committee's scientific development but also on its human dimension.

As a community, TC17 deeply feels his absence. Prof. Yvan Baudoin and Assoc. Prof. Bálint Kiss, Vice Chairs, together with Prof. Simone Keller Fächter and Dr. Fumihiko Kato, Scientific Secretaries, express on behalf of all TC17 members their gratitude for his leadership, trust, and constant encouragement.

His legacy will continue to guide TC17 and ISMCR in the years to come.



*In the picture from the left, Prof. Simone Keller Fächter, Prof. Bálint Kiss, Prof. Dr. Susumu Tachi, Prof. Masahiko Inami, Prof. Yvan Baudoin, and Dr. Zafar Taqvi in Houston, USA*

## OVERVIEW OF IMEKO CONFERENCES 2026-2027

1. TC1 Education and Training in Measurement and Instrumentation and TC2 Photonics Joint Symposium IMEKO PHOTOMET EDUMET 2026 - Metrology in Transition: Education, Photonics, and the Impact of AI & Robotics, 31 August - 2 September 2026, Klagenfurt, Austria. [Website](#)
2. TC3 Measurement of Force, Mass, Torque, and Gravity, TC5 Hardness Measurement, TC16 Pressure and Vacuum Measurement, TC20 Measurements of Energy and Related Quantities, and TC22 Vibration Measurement Joint Conference 23 - 27 March 2026, Hangzhou, China. [Website](#)
3. 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](#)
4. TC8 Traceability in Metrology, TC11 Measurement in Testing, Inspection and Certification, and TC24 Chemical Measurements Joint Conference, 26 - 29 August 2026, Metro Manila, Philippines. [Website](#)
5. TC9 Flow Measurement FLOMEKO2026, 17 - 20 May 2026, Nara, Japan. [Website](#)
6. TC10 20<sup>th</sup> Conference on the "Measurement for Diagnostics, Optimization and Control to Support Competitiveness and Innovation", 28 - 29 September 2026, Lisbon, Portugal.
7. TC15 Collegium 2026, 10 - 12 June 2026, Prague, Czechia.
8. TC20 Measurements of Energy and Related Quantities, ICME 2026, International Conference on Measurement of Energy, 7 - 9 October 2026, Sohra, Meghalaya, India.
9. TC26 International Conference on Metrology for Archaeology and Cultural Heritage - MetroArchaeo, 14 - 16 October 2026, Bari, Italy. [Website](#)
10. XXV IMEKO World Congress, "Metrology for Humanity", 30 August - 3 September 2027, Rimini, Italy. [Website](#)

## NEW MEMBERS AND OFFICERS OF THE TECHNICAL COMMITTEES

### Members

#### TC1:

- Venugopal Arumuru, India

#### TC2:

- Zhoujie Wu, China
- Valentina Bello, Italy
- Andreas Mathwieser, Germany

#### TC3:

- Benoit Lefranc, France
- Florian Beaudoux, France

#### TC4:

- Stanislav Karpenko, Germany

#### TC6:

- Jon Bartholomew, UAE, UK
- Shan Lin, China
- Jeremy Latsko, USA
- David Balslev-Harder, Denmark

#### TC12

- Alexandra Kowal, Poland
- Klaus Anhalt, Germany

#### TC21:

- Tommi Kauppinen, Finland

#### TC22:

- In-Jee Jung, Korea
- Fabrizio Barone, Italy

#### TC24:

- Erinc Engin, UK

### Officers

#### TC6 Vice Chairperson:

- Ioan Tudosa, Germany

#### TC12 Chairperson:

- Mohamed Sadli, France

#### TC17 Temporary Chairperson:

- Balint Kiss, Hungary



IMEKO welcomes the new members to its Technical Committees and wishes them much success!

A special thanks goes to the new Technical Committee Officers for their valuable voluntary service to IMEKO.

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