

DEAR FRIENDS, DEAR COLLEAGUES,

We are halfway into 2025, and IMEKO has picked up pace since the beginning of the year. There are several new initiatives, which, with the help of many volunteers, are getting into shape now. The various conferences are soon to occur, awaiting participants with excellent talks and keynote speeches, special sessions, and social programs. IMEKO is also preparing for the General Council Sessions to be held at the end of August.

This issue presents the summary of the recent Presidential Board's Spring Meeting.

Dr Ravi Fernandes has received the honours of becoming a Fellow of the Combustion Institute. We are proud of him!

In the new series, IMEKO Goes to Young Scientists, we report on the dreams and challenges of young metrologists in the Philippines.

Meet Professor Pasquale Daponte, who has been with IMEKO for thirty-nine years. What an incredible journey, with several IMEKO milestones!

IMEKO has recently partnered with the Confederation of European Environmental Engineering Societies, CEEES, which is now introducing itself.

World Metrology Day 2025, 150 years after the signing of the Metre Convention, is the following article taking the reader to Paris and Versailles in France.

EUROLAB, IMEKO's partner, brings the latest information on their activities.

Last, there is an overview of the 2025 and 2026 conferences.

PRESIDENTIAL BOARD'S SPRING MEETING



In the picture from the left, Ms Barbara Goldstein, Prof. Paolo Carbone, Prof. Frank Härtig, Prof. Kenneth Grattan and Mr Zoltan Zelenka

On 3 May, Delft, in the Netherlands, the Presidential Board convened for an intensive day of good discussions.

The day's focus was on the implementation of the Strategy's Vision 2030 and its various applications. Among the plans for the future, there is a new look for the IMEKO web pages and several new features to serve the Technical Committees and the community better.

With so many conferences this year and some already in the planning stage for 2026, the event organisation and publication activity, yet again, clearly are crucial for IMEKO's global presence.

The Presidential Board also discussed the world congresses, particularly the IMEKO World Congress, to be held in 2030. According to our traditions, the organisational rights and location will be decided at this year's General Council Sessions.

30 – 31 August is already marked in the agenda for many to meet in person or participate online in the GC organised in Prague, Czechia.

The Technical Committee Chairperson's workshop is a new part of the programme to secure more room for informal discussions, which would not fit into the Technical Board's reporting time.

This is just the preliminary account of the spring meeting, followed by a more comprehensive presentation at the General Council meeting, in which IMEKO is looking forward to welcoming GC delegates, Officers and TC Chairpersons.

DR RAVI FERNANDES HAS BECOME A FELLOW OF THE COMBUSTIBLE INSITUTE



IMEKO has recently learned that Dr Ravi Fernandes, from the National Metrology Insitute (PTB), Germany, received the recognition of being elected as a Fellow of The

Combustion Institute for his achievements in reaction kinetics and leadership in the application of precision measurements to combustion chemistry of alternative and sustainable fuels.

Congratulations, Dr Fernandes!

The Combustion Institute (CI) is an international, non-profit, educational and scientific society. Founded in 1954, CI promotes and disseminates research activities in all areas of combustion science and technology for the advancement of many diverse communities around the world. Since its founding, The Combustion Institute has profoundly impacted the advancement of combustion science and the discovery of cleaner and more efficient energy conversion processes. For almost a century, combustion science has been an imperative field of study that cuts across many scientific and engineering disciplines.

Fellowship of The Combustion Institute

Each year, twenty members of the international combustion community are recognised by their peers as distinguished for outstanding contributions to combustion, whether in research or applications. They may be designated Fellows of The Combustion Institute. This lifetime honorific title confers no special rights, privileges or duties. Fellows are active participants in The Combustion Institute, as evidenced by publishing papers in CI-affiliated journals, attending the International Symposia on Combustion, and/or attending CI Section meetings.

The honour of being elected Fellow helps members of the institute remain competitive for awards, honours, and promotions when compared with people from other disciplines.

The honour also supports CI members in advancing to leadership positions in their own institutions and the broader society.

Dr Fernandes has been an active member of The Combustion Insitute since 2004. He started his work on reaction kinetics as a doctoral student in 2000. Later, in 2014, it became his area of expertise at the Physikalisch-Technische Bundesanstalt in Germany. It was also in the same year that Dr Fernandes joined IMEKO's Technical Committee 20, which is dedicated to Measurements of Energy and Related Quantities.

He shared his thoughts upon receiving the honour of The Combustion Institute:

"I have been a member of The Combustion Institute since 2004 and have worked on reaction kinetics measurements ever since. After joining PTB, I established a new research group called "Reaction Kinetics", focusing on Dynamic Metrology—specifically, dynamic pressure, dynamic temperature, and dynamic chemical species concentrations. By developing methods for the simultaneous precision measurement of these three quantities, we were able to apply them effectively to energy conversion processes. I believe this contribution was key to my being named a Fellow of The Combustion Institute."

Dr Ravi Fernandes is the Chairperson of the IMEKO Technical Committee 20, organising very successful conferences every year. The next one, ICME 2025, International Conference on Measurements of Energy, will be held on 23 – 25 June 2025 in Orleans, France.

Besides the series of workshops and conferences, one of IMEKO's Elsevier-published journals, **Measurement of Energy**, is also dedicated to this topic.

**IMEKO GOES TO YOUNG SCIENTISTS:
DREAMS AND CHALLENGES IN THE PHILIPPINES AND THE PATH FORWARD**



In the picture, Dr Maryness Salazar the only person in the Philippines to hold a PhD in the Science of Measurement. She is a member of IMEKO TC16.

Tucked in the middle of the busy streets of Metro Manila, in the Philippines, is the Department of Science and Technology (DOST) compound. Each building houses a team of Filipino scientists, engineers, and technocrats from different fields of scientific endeavour. Everyone aims to help improve the lives of Filipinos. Some research is on food and nutrition, indigenous fabrics, metal fabrication, environment, packaging technology, and others. One of these buildings houses the National Metrology Laboratory of the Philippines (NMLPhil). Although technically only a division under the Industrial Technology Development Institute (ITDI), it functions as the Philippines' de facto National Metrology Institute (NMI).

NMLPhil performs all the functions of a fully pledged NMI as it practices all the major areas of metrology: scientific, industrial, and legal.

With a limited workforce of only around 40 persons, it provides calibration services to the public on the commonly used measuring instruments in the country, represents the Philippines among international metrology organisations, and, fairly recently, actively proposes and conducts research on various areas of metrology to develop national standards, offer new services, and disseminate international recommendations on specific legally regulated measuring instruments.

One of the sections under the NMLPhil is the Pressure and Force Standards Section; at its helm is Dr Maryness Salazar, the only person in the country to hold a PhD in the Science of Measurement. Maryness, or Nhet to most of her colleagues, earned her MS and PhD degrees in metrology from the University of Science and Technology (UST) South Korea, one of the few universities in the world to offer such a graduate program. UST conducted the degree in collaboration with the Korea Research Institute for Standards and Science (KRISS), the NMI of South Korea.

Despite having a population of more than 100 million in the Philippines, earning a degree and starting a career in science and technology is not a very popular choice and is no easy feat. It is unsurprising as OECD PISA values in 2022 showed that Filipino students scored less than average in science, mathematics, and reading.

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The country hasn't yet achieved the critical mass of Research Scientists and Engineers (RSEs) as benchmarked by UNESCO despite multiple scholarship offerings from the government, particularly the DOST.

Once these students take Science, Technology, Engineering, and Mathematics (STEM) courses in their undergraduate years, the typical choices are the popular ones such as physics, chemistry, mathematics, and traditional engineering fields such as civil, mechanical, and electrical. It is understandable since many local and international universities offer these programs under which there is minimal or almost no mention of metrology. Very few are expected to choose and pursue metrology-related professions in the future. Even more so, those in the Philippines already working in metrology only developed an in-depth understanding of the field once they started working in it.

For her part, Dr Salazar was fortunate enough during her university days at the University of the Philippines - Los Banos's applied physics program that she could work on a metrology-related thesis, facilitated by the support of her professors and the university. These circumstances inspired and guided her to the field and to seek employment at NMLPhil immediately after graduating. Since then, she has been serving NMLPhil in multiple roles, such as a project employee and later as a science research specialist-I, up to the supervisory level. She was appointed as NMLPhil's quality manager after being the proficiency testing program manager.

Her desire to see the field of metrology advance and expand in the Philippines kept her motivated to continue for more than two decades.

Aside from Dr Salazar, other employees of NMLPhil pursued graduate studies related to metrology, some from local universities and others from international institutes. Even though the degree is not exactly called Metrology or Science of Measurement, their studies or theses were related to metrology. Ms Lor, for example, is currently studying abroad and pursuing a doctorate in materials science and engineering. She worked in metrology for five years before taking her PhD abroad. At first, the prospect of studying at a foreign university with better facilities and undertaking metrology-related research seemed easy. However, she soon realised that the cost of living abroad is really high, to begin with, and it continues to increase every year, yet the financial support she is receiving is not. Some Filipino graduate students abroad receive additional aid from their advisers and research groups to help finance their studies, such as attendance at seminars, academic conferences, poster and paper presentations, and the like. However, some have to shell out money from their pockets to attend all these activities, which are often burdensome and challenging. Further, getting reimbursements for the expenses is an additional and lengthy process as it requires many documents and time for approvals, involving much bureaucracy. With all that being said, most, if not all, Filipino graduate scholars are still hopeful that there could be changes in the future to how things are handled.

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With this in mind, they are working hard to complete their studies, bring honour to their country, and someday become an example to the next generation.

The government is also trying to find ways to reach the younger generations and get them interested in metrology. In fact, it introduced the Senior High School (SHS) program a few years ago. During their SHS days, students may choose a strand to help prepare them for their college degree. One of these is STEM. Here, the idea is that SHS students should undertake on-the-job training (OJT) in a STEM-related workplace. NMLPhil has been taking SHS students under STEM to introduce them to the science of measurement. Aside from SHS students, NMLPhil also accepts collegiate-level, on-the-job trainees.

For example, Carlos is a graduating SHS student from an international school in Metro Manila under the STEM strand. He took up his OJT at NMLPhil under the supervision of Dr Salazar. According to him, difficulties and possibilities arise in the field. He pointed out "the unholy amount of financial investment, the pressure that comes with it, and the intricate technicalities." But with the difficulties comes the prestige, as he would put it: "For good reason, many places consistently put STEM-related jobs on a podium, righteously so. I think it has much merit because of the investment it requires, both time and money. I, in particular, am especially concerned with it since I'm entering the medical field, which requires years of learning and training, which means a lot more tuition fees to cover." This is an understandable take on how an SHS student sees their future in the STEM field.

However, as mentioned earlier, his perspective and experience vary depending on what those currently working, presently studying, and those who have already finished their graduate studies have experienced in their professional and learning journey.



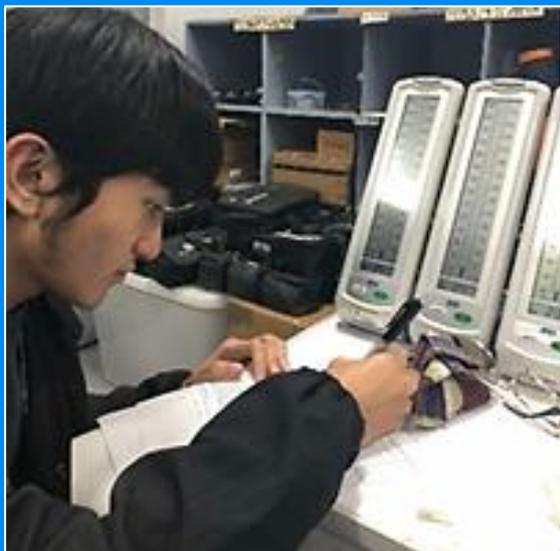
From left to right: Radley, Maryness, Stan, Carlos and Sarah

PFSS personnel and STEM students during their on-the-job training.



In the picture, Kat a STEM student doing calibration as part of her on-the-job training in the pressure laboratory.

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In the picture Jon Rey STEM student.

The enthusiasm of these young minds to pursue studies and a career in STEM is encouraging. It assures the current practitioners that new blood will continue with the foundation and work they are currently doing.

The difficulties faced by prospective, young, and emerging scientists in metrology are varied and complex. The obstacles are present at all levels of the venture. These challenges combine factors and circumstances in a society with constant resource competition. Programs/offices must prove their worth, importance, and impact before funding is provided to them. Their intrinsic value is almost neglected. However, maybe because of their sheer interest in what they are doing, their passion for serving their country, and their altruism towards the ordinary Filipinos who they know would benefit from their studies and hard work, they choose to remain with metrology. This adherence springs from the hope that this field of study would soon receive the appreciation and support it deserves.



In the picture Jes Andre G. Trillana.

Jes Andre G. Trillana is a senior science research specialist at the NMLPhil. His work as a metrologist for over a decade shows unwavering dedication to scientific rigour. Many didn't know until a casual conversation revealed that Jes had been pursuing a law degree in complete secrecy for several years.

To colleagues' surprise, Jes had completed his legal studies and passed the bar exam while maintaining his full-time role at the institute. This remarkable dual achievement is a testament to his discipline, humility, and vision for a broader professional impact. Today, he is co-chair of the legal metrology unit, where he blends his technical expertise with legal insight and upholds measurement standards at the national level. Attorney Jes embodies the idea that quiet dreams can lead to extraordinary transformations when pursued with persistence and integrity. He never sought recognition for this accomplishment, but his story now inspires those around him to pursue growth beyond the boundaries of expectation.

Written by: Dr Maryness I. Salazar and Jes Andre G. Trillana

INTRODUCING PROFESSOR PASQUALE DAPONTE



Minori, a small village on the Amalfi Coast, Italy, is where I was born. This Coast is included in the World Heritage Site List from 1997. I think the place where I was born shaped my character and pushed and

facilitated me in creating my future international contacts.



Minori, Amalfi Coast, Italy

After a degree with honours in Electrical Engineering in February 1981 at the University of Naples "*Federico II*", I became a member of the research group managed by Prof. Giorgio Savastano and Prof. Felice Cennamo. Then, I served as a Complement Officer with the rank of Second Lieutenant in the Italian Armed Forces of Transmissions. In 1983, I became Assistant Professor and then Associate Professor of Electrical and Electronic Measurements at the Faculty of Engineering of the University of Calabria, Italy, where I worked until 1994.

I "met" IMEKO for the first time, attending the 1st TC4 Symposium on "*Noise in Electrical Measurement*" held at Villa Olmo in Como 1986. I was co-author of the paper "*Noise Problems in Ophthalmic Echography*".

During this and the subsequent events, I had the privilege to meet the founders of IMEKO TC4; frankly speaking, at the time, the positions of these scientists were unclear to me. Jean Weiler, Switzerland, the first TC4 Chairman; Adam Fiolek, Poland, the Scientific Secretary; I. Adarski, Bulgaria; A. Braun, Federal Republic of Germany; J. Chaloupka, Czechoslovak Socialist Republic; L. Erard, France; U. Fruhauf, Democratic Republic of Germany; I. Gorini, Italy; W. Kneller, Soviet Union; H. G. Meyer, Federal Republic of Germany; A. Ohte, Japan; J. Schoukens, Belgium; A. Sowinski, Poland; W. Wehrman, Austria; G. Zingales, Italy; I. Zoltan, Hungary. In those years, I never could imagine managing the TC4 and IMEKO!

My presence at TC4 events continued; I knew almost all the regular attendees over time. In 1994, at the TC4 Symposium held in Vienna, I was approached by a Slovak Professor, Linus Michaeli. We discovered that our papers dealt with the same topic:

The characterisation of analog-to-digital converters. From that meeting, a deep friendship was born that still lasts, and that has allowed us to undertake countless initiatives. During our first conversations, we noted that we both were serving in our national armies but on the other side of the border, ready to kill each other, an idiotic situation for two Europeans!



Linus Michaeli and P. Daponte, Benevento 2002.

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We established and coordinated the IMEKO TC-4 Working Group on ADC and DAC Metrology with Linus. The Working Group was the first of its type within IMEKO and was formalised in the IMEKO General Board held in Tampere (Finland) in 1997. The aims of the Working Group were related to:

- the coordination of research activities in the ADC and DAC sectors, stimulating the exchange of knowledge and promoting collaborations between different research centres;
- the definition of European legislation in the sector through the development of the EUPAS project (European Project for ADC-based Devices Standardisation) managed by Harald Schumny and Pasquale Arpaia;
- the development of common teaching activities, with the creation of community teaching modules within the ERASMUS+ Program of the European Union.



IMEKO TC4 Summer School on Data Acquisition System, June 2002, Kosice, Slovak Republic.

These results were also achieved by conceiving and organising an ADC modelling and testing workshop. The 1st "ADC Modelling" workshop was organised in Smolenice Castle, Slovakia, 7 - 9, May 1996. The 5th and 6th editions of the workshop assumed the diction of EuroWorkshop.

They were included among the scientific events considered High-Level Scientific Conferences by the European Commission. The 7th workshop was held in Prague in June 2002, in conjunction with the 4th IEE ADDA Conference, despite the difficulty of cooperation with IEE. A special issue was also organised in sector magazines for each workshop edition.



Along with my participation in IMEKO, my academic career also evolved, first moving to the University of Sannio and then obtaining the position of Full Professor in Electrical and Electronic Measurements in 1999. At this new university, I set up the International Office and the ERASMUS Programme; with these tasks, my IMEKO contacts greatly helped!

After organising the first Workshops on "ADC Modelling," I became interested in organising scientific events, and I was completely involved in the 10th IMEKO TC4 Symposium, "Development in Digital Measuring Instrumentation," which took place in Naples, Italy, on 17 – 18 September 1998.

Prof. Mario Savino, who, in those years, managed the TC4 Board, encouraged me to be more involved in the TC4 Board's life. I followed his suggestions and lessons. I will never have enough words to thank him for his mentorship.

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Finally, he asked Prof. Ludwik Finkelstein, Editor in Chief of Measurement Journal, to replace him with me on the Editorial Board of Measurement Journal. At the time, this was a great result for a young researcher like me, granting me increased visibility in the field of measurements.

During the 12th International Symposium on "Electrical Measurements Instrumentation" held in Zagreb, Croatia, 25 – 27 September 2002, the TC4 Board elected Milos Sedlacek as the new Chairman, Antonio Serra as the new Deputy Chairman, and myself as the new Scientific Secretary of the IMEKO TC4. This was my first official position as an IMEKO Officer.



P. Daponte, L. Michaeli, M. Savino, A. Cruz Serra, TC4 Symposium held in Gdynia, Poland, September 2005

These years were very intense in international relations and my scientific production. I remember with great pleasure working in collaboration with Portuguese friends such as Antonio Serra and his research group, as well as the discussions with Istvan Kollar, Izzet Kale, Dominique Dallet, Vladimir Haasz, and other colleagues. I remember my first participation in a meeting with Izzet Kale and the members of IEEE TC10. This committee dealt with the same research themes as ours on the metrological characterisation of ADCs and DACs.

Step by step, my research activities in this field grew, and I was later awarded the IEEE Fellowship "for contributions to the metrology and standardisation of analogue to digital and digital to analogue converters". Several friendships developed during this time, and our private visits included our families.

Following my appointment as TC4 Scientific Secretary, I was honoured to be offered the roles of TC4 Deputy Chairman and TC4 Chairman. These tasks provided valuable insights into the inner workings of IMEKO, particularly the Technical Board, Advisory Board, and General Council activities.



L. Van Biesen, Ms Karolina Havrilla and P. Daponte, IMEKO TB, Portorož 29 May 2010.

I had the pleasure of knowing Mrs Karolina Havrilla, an IMEKO Officer of fundamental importance who had been the Secretary of IMEKO for 41 years.

Thanks to Prof. Francesco Righini, Italian MO delegate and TC12 Chairman, it was a great surprise for me when, during the General Council held in Lisbon during the XIX IMEKO World Congress, I was nominated and selected as President-Elect for 2009 - 2012. During the XX IMEKO World Congress in Busan in 2012, I assumed the position of IMEKO President until 2015. After that, in Prague, at the XXI IMEKO World Congress, I was nominated as Advisory Board President.

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Since 2018, I have been the Past President of IMEKO and an Honorary Member of the Advisory Board. In 2018, I was given the IMEKO Distinguished Service Award, which was also given to Prof. Christian Eugène, Belgian delegate to the IMEKO General Council and member of the Technical Committee 4 on the same occasion.



Opening Ceremony and General Council, XXI IMEKO World Congress, Prague, 2015.



In those years, IMEKO underwent a significant transformation. Initially, the Organisation was created as a meeting place for scientists from East and West during the "Cold War", but then the founders retired over the years. After the fall of the Berlin Wall, the world changed, and many colleagues considered an organisation like IMEKO useless. The necessity for IMEKO to be renewed was evident, and its strengths had to be emphasised in comparison to those of other scientific institutions.

No organisation will thrive without having a vision! As President, I felt an enormous responsibility to take IMEKO to another level and leave our footprints in the sand of time. I began with an initial review of the IMEKO activities, with discussions and suggestions from the past presidents, the IMEKO officers, and colleagues involved in IMEKO events. All this persuaded me to concentrate on specific topics during my presidency: IMEKO organisation, revision of the IMEKO Constitution, IMEKO financial organisation, improving the IMEKO events image in the scientific community, IMEKO publications, membership, Technical Committees, and award programme.



XXII IMEKO World Congress Belfast, 2018. From left to right, K.T.V. Grattan, M. Ishikawa, P. Daponte, F. Härtig

From the organisational point of view, some events occurred on their own without being requested, considering the amount of problems they generated. I was soon involved in two critical points: the retirement of Ms Karolina Havrilla and a new location for the IMEKO office in Budapest. For both tasks, the support of Mr Zoltan Zelenka, the Secretary-General, was fundamental.

For the first point, we organised a commission including myself, Mrs Karolina Havrilla, Prof. Tilo Pfeifer, Prof. Leo Van Biesen, and Mr Zoltan Zelenka.

INTRODUCING PROFESSOR PASQUALE DAPONTE



After an intense competition from many candidates we met in Budapest, Ms Judit Faragó was selected to manage our Secretariat.

In the picture Ms Judit Faragó.

From the beginning, the IMEKO Office was located in Budapest in a building with a spectacular view of the Hungarian Parliament. The building hosted several scientific and cultural institutions, including IMEKO. The owner decided to renovate the premises and assign them different uses. A new location for the IMEKO Office had to be found! After a search by Mr Zelenka and Mrs Faragó, a place near the Budapest Opera House was chosen.

To modernise the IMEKO working system, I introduced the in-person Presidential Board Spring meeting in Budapest. Previously, the IMEKO Officers met once a year, and it wasn't easy to make fast decisions during the year. During that period, the Presidential Board Spring meeting included the President, President-Elect, Vice President for Publication, Editor-in-Chief of Acta IMEKO, Treasurer, Information Officer, Secretary General, and the Secretary.



PB Spring Meeting 24 - 26 April 2013, Budapest, Hungary. From left, Z. Zelenka, P. Carbone, K. Sommer, P. Regtien, D. Röske, P. Daponte.

A further advancement in the reorganisation involved the new administration of financial resources.

The subsequent step was to implement a new Constitution as per the Metropolitan Tribunal of Budapest. This is particularly noteworthy considering that all documentation needed to be submitted in Hungarian! As always, Mr. Zelenka and Ms. Faragó excelled in their work!

How could the IMEKO event image in the scientific community be improved? What about the IMEKO publications? Thanks to the support of Dr Dirk Röske, IMEKO Information Officer, for all IMEKO events and IMEKO Proceedings, an ISBN identifier was allocated. IMEKO created a central system for the management of events. It is available at conferences.imeko.org. A new part, the "Proceedings search" Proceedings, was created, including all papers allowing a search for one particular paper. Thanks to the agreement with Curran Associates and the fundamental support of Dr Dirk Röske, the papers included in our Conference Proceedings system were indexed for the first time by Scopus! It was a great result, giving visibility to IMEKO events and gaining trust in the scientific community.

Another critical step for a new IMEKO was taken thanks to the support of Prof. Kenneth Grattan, Editor-in-Chief of Measurement Journal. He improved the links with Elsevier and the corresponding fees paid to IMEKO. IMEKO agreed to provide Elsevier non-exclusive access to the proceedings from IMEKO World Congresses and IMEKO Proceedings until 2000 for indexing in Scopus and Compendex.

Last but not least, in the reorganisation of Acta IMEKO, the founding Editor-in-Chief, P.L. Regtien, now retired, did a great job and created this journal from scratch.

INTRODUCING PROFESSOR PASQUALE DAPONTE

I warmly thank him and the other successive Editor-in-Chiefs, Paolo Carbone, Dusan Agrez, and Francesco Lamonaca, for their efforts in improving the journal step by step.

Acta IMEKO had to be included in the international indexing systems to be comparable with other prestigious journals in the measurement field. This was done by the current Editor in Chief, Prof. Francesco Lamonaca. The new online journal, Acta IMEKO, accepted now by Web of Science, Scopus, and DOAJ indexed, publishes scientific articles that are extended versions of selected papers presented orally or as posters during IMEKO events and regular papers submitted for publication.

It is worth noting that the launch of the awards programme for IMEKO events, which I suggested, became implemented, continued, and expanded.

I left the IMEKO Presidency with changes in Member Organisation numbers and geographical distribution among the continents. Thanks to Prof. Kenneth Grattan and other colleagues, the USA has again become part of the IMEKO family! The situation in 2015 is reported here:



Distribution of the IMEKO Member Organisations in the years 2013 and 2015.

More or less in the same period (2008–2015), I was a member of the IEEE Instrumentation and Measurement Society (IMS) AdCom, and from 2016 to 2018 member of the I2MTC Board of Directors of the IEEE Instrumentation and Measurement Society. Due to these double activities in both scientific institutions, I tried to create a link between IMEKO and IEEE IMS. I regret that my efforts to improve contact between these institutions were not quite successful.

Another aspect of my life at IMEKO was fully understanding the transversality of measurements in every field of science and technology. When you work in a particular sector, such as in my case, electrical and electronic measurements, you do not often perceive how important measurements are in other sectors, such as archaeology. This consideration has led me directly or indirectly to create and then annually organise a series of conferences on Measurement for Medical Applications, Metrology for AeroSpace, Metrology for Geotechnics, Metrology for Archaeology and Cultural Heritage, Metrology for the Sea, Metrology for Industry 4.0 and IoT, Metrology for Agriculture and Forestry, Metrology for Automotive, Metrology for Living Environment, Measurements and Applications in Veterinary and Animal Sciences, Technology for Defense.

The IMEKO Workshop on Metrology for Archaeology and Cultural Heritage gained great attention in the scientific community, and starting in 2025, IMEKO established a specific TC26 - Metrology for Cultural Heritage. This year, TC26 is planning to hold an international conference in Italy.

INTRODUCING PROFESSOR PASQUALE DAPONTE

These 40 years have given me many opportunities to understand the importance of measurements and their impact on humanity, meet excellent scientists, create great friendships, and support young researchers to be active in IMEKO. I sincerely thank all my friends/colleagues for their profound commitment to IMEKO.

My life with IMEKO started about 40 years ago, and it still continues. I am in charge as Vice President of the XXV IMEKO World Congress to be held in Rimini in 2027.

I conclude these notes with a warm invitation to meet all of us in Rimini in 2027, renew old friendships, and create new ones. My invitation is especially addressed to young researchers. Come forward, join IMEKO, and participate in its events; they are our future!

See you in Rimini!

<https://imeko2027.org>.

Written by Prof. Pasquale Daponte



Metrology for Humanity is the XXVth IMEKO World Congress title between 30 August and 3 September in Rimini, Italy.

The new Rimini Palacongressi is one of the largest conference centres in Europe, with a total capacity of 9,000 seats in 39 halls, and it is unique to Italy. This impressive structure, which focuses on environmental protection, technological innovation and maximum flexibility of use, has a 4,700-seat main hall and a 1,540-seat amphitheatre.



Natural light is the venue's star, flooding and embellishing the spaces and installations, making every event more pleasant, liveable, attractive and comfortable.



The convention centre is located in a project to renew the urban green spaces, which includes a series of parks with pedestrian and cycle paths connecting the seafront to the city centre, making everything easily accessible.

INTRODUCING THE CONFEDERATION OF EUROPEAN ENVIRONMENTAL ENGINEERING SOCIETIES, CEEES



IMEKO has recently partnered with the Confederation of European Environmental Engineering Societies, CEEES. This independent organisation promotes the advancement of science and technology in the field of environmental engineering and related branches of science. CEEES also coordinates the exchange of information and experience in all related fields. It arranges and participates in national and international conferences and seminars on environmental techniques and their application. The professional work is carried out through three Technical Advisory Boards:

- Mechanical Environments
- Reliability and Environmental Stress Screening
- Climatic and Atmospheric Pollution Effects

Members consist of the National Environmental Engineering Societies from Countries such as Germany (GUS), France (ASTE), Italy (A.I.V.E.L.A.), United Kingdom (SOE), Sweden (SEES), Switzerland (SSEE), Finland (KOTEL), Belgium (BSTEE), The Netherlands (PLOT), and Austria (ÖGUS).

They are active in establishing national and international standards and codes of practice.

CEEES encourages the member societies to support each other's activities.

What is 'Environmental Engineering'?

During their entire life span, technical products are subjected to a multitude of influences from their environment, thus affecting their functional ability, durability, quality, and reliability.

It is, therefore, technically and economically essential to design and manufacture products in such a way as to withstand the imposed loads and reliably fulfil their tasks.

Methods of environmental engineering examine the interactions between an object and its environment.

With a view to possible synergisms, system-technological considerations and thinking in the entirety are indispensable.

Environmental engineering deals, in principle, with questions of functional ability and durability.

In its working methods, environmental engineering combines ecology and economy, environmental protection, and product quality, as it applies technical knowledge to ecological problem areas. A longer lifespan of products serves the consumer as well as the conservation of resources, and it results in a reduction of waste and a more economical approach to energy for the environment.

Methods of environmental simulation are, to an increasing extent, also used on non-technical products, e.g. examination of the recent forest decline, damage to ancient monuments and simulation of substance emission into the environment.

INTRODUCING THE CONFEDERATION OF EUROPEAN ENVIRONMENTAL ENGINEERING SOCIETIES, CEEES

CEEES Presidency

Each member society successively holds the presidency and Secretariat for two years, ensuring that leadership is distributed equally among its members. This approach promotes diversity and inclusivity and brings a wealth of knowledge and expertise to the table. As a result, CEEES is well-equipped to tackle the complex environmental challenges that Europe and the world face today. The organisation's commitment to shared leadership and collaboration is a testament to its dedication to making a positive impact on the environment and society as a whole.



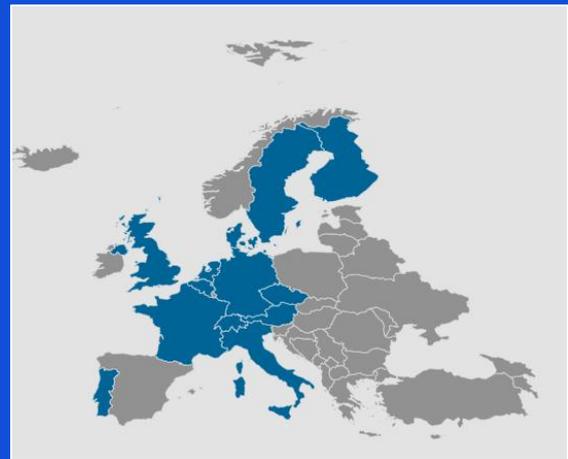
In the picture is the recent formal transfer of the presidency from A.I.V.E.L.A. Italy, represented by Giulio D'Emilia, to ÖGUS, Austria, represented by Paul Grillberger.

From 2024 to 2026, the Austrian Society of Environmental Engineering (ÖGUS) – represented by Paul Grillberger – holds the Presidency alongside France (represented by ASTE) acting as Vice President. According to CEEES working practice, France will follow as President from 2026 to 2028.

Paul Grillberger (ÖGUS), a chemist by education (University of Vienna), is in charge of the Environmental Engineering Department at the Austrian Research and Testing Institute (OFI) in Vienna. His main fields of expertise are artificial weathering and corrosion tests.

Current Topics

Current 'hot topics' in environmental engineering include the use of AI in numerical environmental engineering and data evaluation, as well as the development of new test procedures and test methods in the field of battery testing.



In the picture, member countries of CEEES

Written by Paul Grillberger

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WORLD METROLOGY DAY 2025 - 150 YEARS SINCE THE SIGNING OF THE METRE CONVENTION: HOW TO CELEBRATE SUCH A SUCCESS STORY?

The celebrations began at the UNESCO headquarters in Paris on 20 May 2025. Nowadays, the phrase 'This is a historical event!' is used far too often. Whether desired or feared, we imagine that an event in our lives will make it into the history books. Such events are much easier to identify when we look back into the past. During the week, we celebrated one such event that took place 150 years ago.



Private photograph at the UNESCO site in Paris.

The motto 'à tous les temps, à tous les peuples' means that the International System of Units (SI) has been established for the benefit of everyone: for all times, for all peoples. This significant international agreement was signed by 17 countries in Paris on 20 May 1875. It formed the basis for today's SI and global cooperation in the field of weights and measures.

This treaty has a unique history. For the first time, it established permanent international cooperation in standardising units of measurement. This was a decisive step towards promoting global trade, science and technology. Three central organisations were founded for this purpose, including the BIPM (Bureau International des Poids et Mesures) in Sèvres, near Paris.



A private photograph from a presentation at UNESCO, with the link towards the photo credit provided within the photo.

Since its inception, the BIPM has conducted comparative measurements and maintained the original standards. It continues to refine the SI alongside the CGPM (Conférence Générale des Poids et Mesures), a conference of all member states that addresses fundamental issues, and the CIPM (Comité International des Poids et Mesures), which coordinates technical endeavours and advises the CGPM.

Thanks to the Metre Convention, units of measurement could be further developed in line with scientific progress. For example, the metre was redefined in 1983 via the speed of light and the kilogram in 2019 via natural constants instead of a physical prototype kilogram.

Founded 150 years ago by 17 original members, including Germany, the Organisation now has 64 member states and 37 associated states. The most amazing thing is that they speak with one voice!

There were inspiring opening remarks and general greetings moderated by Georgia Calvin-Smith: Mr Shaofeng Hu (Director of the Division of Science Policy and Basic Sciences in the Natural Sciences Sector at UNESCO), H.E.

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Mr Askar Abdrakhmanov (Ambassador and Permanent Delegate of the Republic of Kazakhstan to UNESCO) and Mr Jean Lamy (Ministère de l'Europe et des Affaires Étrangères, France). Afterwards, the focus shifted to metrology: Dr Wynand Louw, President of the International Committee for Weights and Measures (CIPM) from South Africa, and Dr Bob Joseph Mathew, President of the International Committee for Legal Metrology (CIML) from Switzerland, addressed its benefits to the world.



Private photograph: Annette Röttger and Frank Härtig at the UNESCO event on the World Metrology Day 2025 - celebrating 150 years since the signing of the Metre Convention.

One highlight of the first day of the celebration was Prof. William D. Phillips's talk, "The SI - a tool for all mankind", in which he is a Nobel Prize laureate from the National Institute of Standards and Technology (NIST), USA. He demonstrated the importance of the ability to measure for different cultures, From ancient Egypt to the French Revolution. He discussed the scientific, economic and social achievements, as well as the unifying power of the Metre Convention.



Private photograph from the talk of William D. Phillips, Nobel Prize laureate 1997 National Institute of Standards and Technology (NIST), USA titled "The SI - a Tool for all Mankind".

Later, Dr Maguelonne Chambon, Director of R&D at the Laboratoire National de Métrologie et d'Essais (LNE) France, expressed the need for cooperation between regional metrology organisations such as EURAMET, which provides significant support from the European Partnership on Metrology.

Dr Nathalie von Siemens, Member of the Advisory Board at the Physikalisch-Technische Bundesanstalt (PTB) in Germany, reflected on the social challenges metrology is facing today when she looked back at the roles of Hermann von Helmholtz and Werner von Siemens. She reflected: 'There is no change without change makers!' Time calls for change, either in digitalisation or in new, innovative technologies such as quantum.

Over the next two days at the Palais des Congrès in Versailles, the focus was on the future of the Metre Convention: from units to the universe. When enthusiastic people come together, emotions run high. Does loving one's profession make one's joy a vocation?

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Collection of private photographs, from left to right: EURAMET colleagues (Miruna Dobre, Annette Röttger, Maguelonne Chambon, Mikko Merimaa, Dolores del Campo), PTB Presidential Board (Annette Röttger, Cornelia Denz, Frank Härtig) and plenary discussion on quantum technology.

People from all walks of life came together to celebrate the 150th anniversary of the Metre Convention. Our German Federal Ministry for Economic Affairs and Energy (BMWi) colleagues travelled with an impressive team, demonstrating the importance of metrology for our economy. Thank you very much for your commitment!

The PTB's Presidential Board was present, and we were looking forward to the day's first presentation. Dr Nicolas Spethmann reported on the PTB's Quantum Technology Centre. He explained how the centre facilitates the application of quantum technology through testbeds and open labs. Serving industry and academia, it paves the way for the future. The message is clear: both metrology for quantum technology and quantum technology for metrology will be important topics in the future.

The EURAMET team was also present. This is a time of great transition for metrology in Europe, and we are rising to the challenge with commitment.

In Versailles, we looked to the future with topics such as 'Metrology in the quantum era', 'Metrology for climate science', and 'The FAIR digital revolution'.

Metrology colleagues can contribute to all of these topics. It is good to know that metrology is a team effort. We are not alone: Prof. Lixing You of the Shanghai Institute of Microsystem and Information Technology in China shed light on 'Superconducting Photon Detectors: From Quantum Information Processing to Metrology', and Dr Oksana Tarasova of the World Meteorological Organization (WMO) presented 'The Development of a Global Greenhouse Gas Monitoring System'. Finally, Prof. Dr Cornelia Denz moderated a session in which Dr Barend Mons of Leiden University in the Netherlands gave us a wake-up call with his presentation, 'Stop Data Sharing...!'.

In addition to all these highlights, the posters should also be mentioned: following an open invitation, more than 350 posters were submitted to showcase the latest developments in nine areas of metrology highlighted in the CIPM Strategy 2030+.

In a world rife with conflict, the united voice of the metrology community offers hope, and I am proud to be part of this extraordinary community.

We had some exciting days with wonderful people – it was a privilege to be there!

Written by Annette Röttger

EUROLAB GENERAL ASSEMBLY AND THE EVOLUTIONARY STRATEGY

EUROLAB is delighted to share the latest news from its General Assembly (GA) and Accompanying meetings from 28 – 29 April in Copenhagen, kindly hosted by EUROLAB-Denmark.

The events coincided with celebrating the Organisation's 35th anniversary, a milestone in its evolution. The key focus of the discussions looked towards EUROLAB's evolutionary strategy, which the GA approved. The strategy seeks to promote the development of EUROLAB by mirroring the already existing structure of the national members and enhancing the representation of the entire conformity assessment community, opening the direct membership to national associations of testing, inspection, certification, notified bodies, individual CABs, Sectorial Associations and Stakeholders. The next steps regarding the strategy implementation and governance will be discussed and developed with the EUROLAB Strategic Task Force Members. For more details, please see the [highlights](#) from the GA.



EUROLAB elected a new president, Dr Andreas Kinzel (EUROLAB-Germany), and a new board of directors during its General Assembly. Dr Kinzel has been the President of the German Association of Materials Testing Institutes (VMPA) in Berlin for the past 19 years. Since 2006, he has been a member of the Board of the German National Laboratory Association EUROLAB-Germany and, since 2017, its Vice President.

Dr Kinzel is also a member of the German Accreditation Council and, since 2023, has been acting chairman of it.

For more information, visit the website's [Press Release](#) announcing the new board.

EUROLAB - ASSOTIC Seminar on Certified Reference Materials

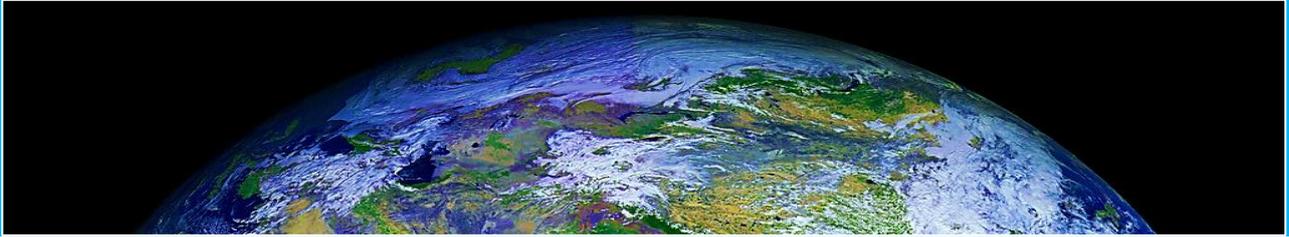
EUROLAB and ASSOTIC will be hosting a seminar on Certified Reference Materials - trends, challenges & opportunities alongside the IMEKO Joint Conference TC8-TC11-TC24. Certified Reference Materials (CRMs) play a critical role in analysing and testing by providing standardised and traceable benchmarks to ensure the reliability, accuracy, and consistency of measurements and analytical results. Laboratories can ensure the reliability of their data, build trust with clients, and comply with industry and regulatory standards by using CRMs. However, there are several challenges when it comes to the use of CRMs.

The seminar will take place on Wednesday, 10:00-13:00 CEST in September. Participants of the IMEKO conference who are also interested in attending the seminar will receive a 50% discount on the seminar.

If you are interested in the package, please contact info@eurolab.org. If you are interested in attending just the seminar, [tickets](#) are available for 15% off until the end of June.



IMEKO CONFERENCES OVERVIEW 2025 - 2026



- TC2 Photonics, International Symposium on Modern Photonic Metrology, PHOTOMET 2025 - September 2025, Modena, Italy.
- TC4 Measurement of Electrical Quantities, Symposium, 15 – 17 September, Zagreb, Croatia.
- TC6 Digitalisation, Second International Conference on Metrology and Digital Transformation, M4Dconf 2025, 3 - 5 September, Benevento, Italy.
- TC7, Measurement Science and TC13, Measurements in Biology and Medicine, Test and Measurement conference, 15 – 17 September, Pretoria, South Africa.
- TC8, TC11, and TC24 joint conference (TC8 Traceability, TC11 Measurement in Testing, Inspection and Certification, and TC24 Chemical Measurements) will be held from 14 - 17 September in Torino, Italy.
- TC12 Temperature and Thermal Measurements, TEMPMEKO-ISHM 2025, 20 - 25 October, Reims, France.
- TC14 Measurement of Geometrical Quantities, Quality and Accuracy in the Age of Data-Driven Manufacturing, 2 - 5 September 2025, Cluj-Napoca, Romania.
- TC17 Measurement in Robotics, ISMCR 2025 26th International Symposium on Measurement and Control in Robotics 7 - 8 October 2025 Sambreville, Belgium.
- TC20 ICME 2025, International Conference on Measurements of Energy, 23 June - 25, 2025, Orleans, France.
- TC23 Metrology in Food and Nutrition, 8th IMEKOFOODS: Safety and Traceability of Food in Support of Sustainable Development Goals, 22 - 24 September 2025, Ljubljana, Slovenia.
- TC3 Measurement of Force, Mass, Torque, and Gravity; TC5 Hardness Measurement; TC16 Pressure and Vacuum Measurement; and TC22 Vibration Measurement, joint conference 23 – 27 March 2026, Hangzhou, China.
- TC9, Flow Measurement, FLOMEKO2026, 17 – 20, May 2026, Nara, Japan.