

DEAR FRIENDS, DEAR COLLEAGUES,

We are in April, and IMEKO is full of events and activities. Nine conferences are announced for 2025, and the very popular "FLOMEKO" by the Technical Committee 9 Flow Measurement will be held in Nara, Japan, in 2026. The Presidential Board held five meetings and is preparing for the annual in-person meeting in May. The yearly General Council Sessions, in August, big thanks to the invitation of the Czech colleagues, are being organised for us in Prague, in the Czech Republic.

In this issue on introductions, meet Ms Emmanueline Irizerwa from Rwanda. Anna Hajduk is our new journal publisher at Elsevier. From the industry, Complete Calibration Services (CCS) from Brisbane, Australia, show us their company.

A new feature in the newsletter, "IMEKO Goes to Young Scientists", is planned to be a regular part of the newsletter.

We have news about the second Forum on Metrology and Digitalisation that recently took place. As you know, IMEKO is active in the Bureau International des Poids et Mesures, BIPM initiative, of the Joint Statement of Intent on Digital Transformation in the international scientific and quality infrastructure.

## GENERAL COUNCIL SESSIONS AND RELATED BOARD MEETINGS 2025



IMEKO is generously invited by the Czech Association of Scientific-Technical Societies in 2025 for our annual General Council Sessions, which will be held in hybrid mode from 30 to 31 August 2025 in Prague, Czech Republic.

The joint Technical Board - General Council session agenda will be sent out in May.

Here is what we already know:

30 August 2025 starts with an informal Technical Committee workshop at 9:30 am for Technical Board members. The workshop is not part of the GC Sessions. Of course, interested colleagues are more than welcome to join the discussions.

The workshop's agenda is still open; ideas are welcome to it!

The General Council Sessions:

1. Technical Board meeting for the TB members will be held on Saturday, 30 August 2025, Registration: 13:00-13:30 Start: 13:30

The General Council members are invited, but their presence is not essential. The meeting summary will be presented on Sunday at the GC.

2. The General Council Session will be held on Sunday, 31 August 2025, Registration: 8:45 - 9:00 Start: 9:00

The address of the Sessions is:

Institute of Theoretical and Applied Mechanics, Czech Academy of Sciences, Prosecka 76, 190 00 Prague 9, Czech Republic

It will be a pleasure to meet again!

## IMEKO GOES TO YOUNG SCIENTISTS



*(In the picture, among the award winners, is Leonardo Iannucci, the second from the left.)*

### Introducing a new newsletter theme; IMEKO goes to "Young Scientists."

It just recently came to IMEKO's attention that Leonardo Iannucci, the Scientific Secretary of TC24 (Chemical Measurements), has received the 'Young Scientist Award', a recognition dedicated to young researchers who make significant contributions to basic and applied research in the field of corrosion and protection of materials. The International Corrosion Council (ICC) presented the award in collaboration with the Chinese Society for Corrosion and Protection (CSCP) during the 22<sup>nd</sup> International Corrosion Congress held in Xi'an, China, from 22 October to 26<sup>th</sup> 2024.

Congratulations to Leonardo on this occasion!

Since 2021, Leonardo Iannucci has been a very active member of IMEKO TC24. He serves as the Scientific Secretary of this Technical Committee and has been involved in the broad aspect of IMEKO activities, such as conference organising, reviewing, and editorial tasks for the IMEKO journals.

*In response to his activities in IMEKO and his recently received award, we asked him what he thought IMEKO could bring to young scientists. How could the Confederation better meet the needs of them?*

"I got in contact with the 'IMEKO world' as a PhD student, attending its conferences. I believe that IMEKO can be of great interest to any young researcher in the field of metrology because, thanks to its conferences and journals, IMEKO provides the visibility that they need for their work. IMEKO covers a wide range of topics, so finding a conference that aligns perfectly with your ongoing scientific work is not difficult. Additionally, international events are ideal opportunities to network with professionals in your field, discuss important scientific topics or find your next job position in industry or academia. Furthermore, IMEKO journals are a good opportunity for young researchers to publish their work in renowned journals and even take on editorial roles. For instance, I think the 'Early Career Advisory Board' initiative promoted by Elsevier is a really good opportunity for editorial work because it allows more individuals (who may not yet be able to join the Editorial Board) to gain experience in scientific publishing.

At the same time, there are a couple of ideas on how IMEKO could attract more attention from young scientists. For example, regarding the conferences, there could be dedicated awards created for young authors and some travel grants to support them financially. This would surely help them and stimulate their participation. Another idea is that perhaps some organisational roles in IMEKO could be created to allow young scientists to demonstrate their potential and abilities. And when new people come in, new ideas arrive..."

*IMEKO and Leonardo Iannucci*

## INTRODUCING EMMANUELINE IRIZERWA



My name is Emmanueline Irizerwa, and I currently serve as Director of the Electrical Metrology Unit at Rwanda Standards Board (RSB). First of all, I am honoured to be part of

this esteemed international network dedicated to advancing the science and practice of measurement in various industries worldwide.

At RSB, we are deeply committed to advancing the accuracy, reliability, and standardisation of measurements across various aspects. We believe that by collaborating with the International Measurement Confederation's diverse and passionate members, we can contribute valuable insights and innovations to the field while learning from the vast expertise that the community offers.

From a very young age, I was captivated by the wonders of science. Growing up, I spent countless hours exploring the natural world, conducting simple experiments, and asking endless questions about how things worked. This early curiosity blossomed into a lifelong passion for scientific discovery.

As a child, I was always the one to take apart gadgets and eagerly devour science books. I excelled in science classes at school, quickly becoming known for my enthusiasm and ability to explain complex concepts in simple terms. By the time I reached high school, I had taken Mathematics and Physics as main courses.

Determined to continue pursuing my passion, I went on to study Electronics and Telecommunications at the University of Rwanda/former Kigali Institute of Science and Technology (KIST). This was the starting point in my career in science in the field of electronics and telecommunication engineering.

After my bachelor's, at the beginning of 2014, I started my career at RSB in metrology services in the Mechanical and Electrical Metrology Unit, especially in the Volume laboratory as an Officer. In 2019, I enjoyed being part of the team that worked hard to achieve accreditation for small-volume units by DAkkS, a German accreditation body.

In 2021, the Mechanical and Electrical Metrology Unit was divided into two. I started my new journey as a Director of the Electrical Metrology Unit, which is essential for several reasons, especially if you are working in a field that requires precision measurement of electrical quantities like voltage, current, resistance, frequency, or power and Energy.



*RSB premises Kigali, Rwanda,*

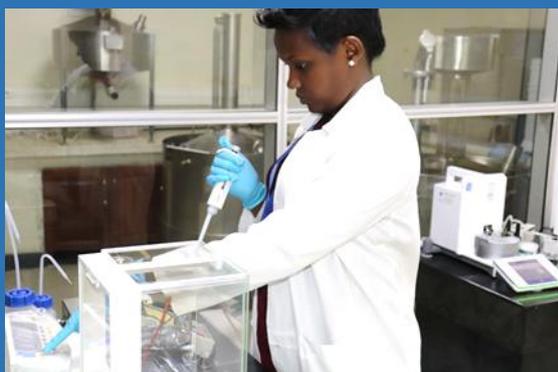
For Rwanda as a developing country, quality control and assurance are the key parts /components of the main processes that can help businesses ensure their products and services meet high standards. In industries like semiconductor manufacturing or consumer electronics, electrical metrology ensures that each product meets the required electrical specifications, improving the overall quality and performance of the products.

## INTRODUCING EMMANUELINE IRIZERWA

**For Testing and Validation:** Electrical components, circuits, and systems must be thoroughly tested to ensure their functionality. Metrology units provide the tools needed to perform rigorous tests, helping to detect and fix any issues before products are released to the market.

As someone who enjoys multidisciplinary work, I have chosen metrology as a career because it integrates my knowledge from physics, engineering, and information technology. I like how in our days, electrical measurements contribute to sustainability. Accurate measurements help optimise energy efficiency, reduce waste, and contribute to sustainable practices. By improving the way electricity is measured and managed, it helps create more energy-efficient solutions.

**Hobbies:** I like aerobic sports, studying new things, and reading novels, and I am passionate about contributing to the development of my country in measurement aspects.



I believe that pursuing knowledge is a lifelong journey, and I am dedicated to making science accessible and exciting for the next generation of young learners, just as it was for me.



Outside my work, I remain actively involved in science education, often volunteering for outreach programs or mentoring students, especially young women with similar interests. I believe strongly in the importance of nurturing curiosity and creativity in young people, empowering them to ask questions and seek answers.

My first contact with IMEKO dates back to 2022 (almost three years), and my application to join IMEKO TC8 was recently accepted. I am eager to engage with other members, participate in upcoming events and conferences, and explore collaborative opportunities that will further our shared goals of improving measurement practices globally.

Thank you for the opportunity to be part of this remarkable community. I look forward to collaborating and contributing to IMEKO's discussions and all networks to help advance the field of measurement science.

*Written by Emmanueline Irizerwa  
Director of the Electrical Metrology Unit at  
Rwanda Standards Board (RSB).*

IMEKO TECHNICAL COMMITTEE EVENTS OVERVIEW 2025-2026



**IMEKO Conferences  
Topics in 2025!**

Photonics,  
Traceability  
Thermal Measures  
Electrical Quantities,  
Food and Nutrition  
Chemical Measures  
Measurement Energy  
Digital Transformation  
Geometrical Quantities  
Measurement and Control in Robotics

**TC2 Photonics;**  
International Symposium on Modern Photonic Metrology,  
**PHOTOMET 2025**,  
1-3 September 2025, Modena, Italy.

**TC6 Digitalisation;**  
Second International Conference on Metrology and Digital Transformation,  
**M4Dconf 2025**,  
3-5 September Benevento Italy.

**TC8, TC11, and TC24;**  
**joint conference**  
(TC8 Traceability, TC11 Measurement in Testing, Inspection and Certification, and TC24 Chemical Measurements)  
14 to 17 September 2025 in Torino, Italy.

Keynote speakers at this joint conference:  
**Claudia Koch**; "Towards a Digital Ecosystem for Quality Infrastructure: DCC, Digital Reference Material Documents and Beyond".

**Eugenia Eftimie Totu**; "Next-Generation of Chemical Sensors for Health: Precision Detection of Inorganic Ions in Periodontal Diagnostics Under Eurachem Guidelines".

**Vito Fericola**; "Measuring and Adapting Quality Infrastructure in a Changing World".

**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** 26<sup>th</sup> International Symposium on Measurement and Control in Robotics  
7-08 October 2025 Sambreville, Belgium.

**TC20 Measurements of Energy and Related Quantities**  
**ICME 2025**, International Conference,  
June 23-25, 2025, Orleans, France.

**TC23 Metrology in Food and Nutrition, Safety and Traceability of Food in Support of Sustainable Development Goals**,  
22-24 September 2025, Ljubljana, Slovenia  
**8<sup>th</sup> IMEKOFOODS**

2026:



**TC9, Flow Measurement, FLOMEKO2026**,  
17-20, May 2026, Nara, Japan.

## IMEKO WELCOMED NEW TECHNICAL COMMITTEE MEMBERS



TC6:

Narin Chanthawong; Thailand,

TC8:

Jariya Buajarern; Thailand,  
Emmanueline Irizerwa; Rwanda,  
Jean Claude Manizabayo; Rwanda,

TC17:

Geraldo Gurgel; Brazil,

TC20:

Wirun Laopornpichayanuwat; Thailand,

TC22:

Alfredo Giacomo Cigada; Italy,

TC25:

Sivinee Sawatdiaree; Thailand,

TC26:

Sebastiano D'Amico; Malta,

Junchang Yang; China,

Kasper Mayntz Paasch; Denmark,

Nagmeldeen Morshed Hamza; United Arab Emirates,

Lucas Gheco; Argentina,

Zoraida Raimundez Ares; Spain,

Maisa Fonseca de Almeida; Brasil,

Claudia Colini; Germany,

Rym Bouhamed; France,

## ACTA IMEKO



Dear readers,

The first issue of volume 14 (year 2025) of our open-access online journal Acta IMEKO is now complete.

It has, in total, 12 research papers from various fields.

A table of contents is available on our [Acta IMEKO](#) page on this site for a quick overview.

"This issue includes papers of the general track that once again highlight the transversality of metrology and how it supports many different investigation fields, the achievement of the United Nations Sustainable Development Goals, and the preservation of cultural heritage."

INTRODUCING COMPLETE CALIBRATION SERVICES (CCS) BRISBANE AUSTRALIA

This year, the metrology community is celebrating 150 years since the Metre Convention. After such a long time, the effects of this transformative convention are still developing and evolving around the world. Today I would like to introduce a business that is built upon such a landmark foundation. Complete Calibration Services (CCS) is a NATA Accredited (ISO 17025) calibration laboratory based in the suburb of Archerfield in Brisbane, Australia. Brisbane is a coastal city (like most major cities in Australia) of about 2.6 million people located in the sunny state of Queensland.

The city of Brisbane is divided in half by the Brisbane River running through it. To many the river is the centre of the city.



It hosts Southbank, a lovely area with tropical trees, converted into a beautiful community space following the World Expo of 1988. Ferries traverse the river as a unique public transport option. At night it is an excellent way to observe the city lights. A number of pedestrian and other bridges span the river, giving access to both sides with two new ones opened in the last six months.

The city is surrounded on both sides by world-renowned beach city destinations. One hour to the north is the Sunshine Coast and one hour to the south is the Gold Coast.

Which location you prefer depends on which side of the city you live on. Both are home to marvellous beaches, tropical natural areas and active entertainment districts.



*Kangaroo Point Bridge*

In Brisbane, some of the major industries relevant to calibration include construction, mining, manufacturing and defence.

Other major industries in Brisbane include health, tourism, logistics, advanced manufacturing and business services. The city is home to a number of universities including the University of Queensland (UQ) and the Queensland University of Technology (QUT).



*South Bank*

INTRODUCING COMPLETE CALIBRATION SERVICES (CCS) BRISBANE AUSTRALIA



Complete Calibration Services is the newest accredited calibration laboratory in Brisbane with a focus on servicing the materials testing industry. It was started with the goal of providing high quality calibration services with excellent customer service over a wide range of services, including those being offered by only a few other labs. Our goal is being realised through our NATA Accredited scope of accreditation, which currently includes activities of Caliper calibration, high-capacity force calibration in tension (up to 500 kN) and compression (up to 3000 kN), extensometer calibration (to ISO 9513 Class 00) and calibration of Charpy Impact machines.

*Some of CCS's equipment*



We ensure our high quality of calibration by the reference equipment (calibration standards) that we maintain. They are purchased from the most reputable brands, including Morehouse and Epsilon. Our quality is also maintained through our commitment to ISO 17025 accreditation and sound technical capability.

We offer excellent service by committing to fast and clear communication with our customers. We respond to enquiries and emails quickly and seek to provide a level of service suitable to our customers' needs.

Additionally, we aim to provide a broad scope of accreditation so that we can service underserved customers. This commitment is demonstrated by our accreditation in the area of Charpy Impact calibration. In Australia, there are only two organisations besides CCS that offer this service, each of which has been doing so for roughly 3 decades or more. We recently developed this capability to serve our industry and ensure that the general industry has access to accredited charpy calibration services.

We are committed to adding to our scope of accreditation as well so that we can serve a broad array of customers. This year we have already had an accreditation visit to have pressure calibration and hardness calibration added to our scope of accreditation, with more planned for the upcoming six months.

The future direction of CCS is to continue adding to our scope of accreditation and to explore how we can leverage opportunities for digital transformation. We are committed to further expanding and enhancing our scope of accreditation so that we can offer our customers a full suite of calibration services and attract customers from other markets.

INTRODUCING COMPLETE CALIBRATION SERVICES (CCS) BRISBANE AUSTRALIA

Our director recently observed the 5<sup>th</sup> International DCC Conference (Digital Calibration Certificates) online hosted by the PTB in Germany and is keen to find opportunities to contribute to and participate in such an important and relevant subject for our industry.

We love networking. If you're travelling to the Brisbane area, please reach out. If we can assist with anything related to life in Australia, calibration or opportunities in Australia please also reach out.

Warmest regards to the IMEKO community,  
Thomas Tilley  
Director  
Complete Calibration Services  
[info@completecal.com.au](mailto:info@completecal.com.au)



Thomas Tilley is the director and owner of Complete Calibration Services (CCS). Prior to starting CCS, he was involved in post-graduate studies at the Queensland University of Technology in

Brisbane, Australia. Before that, he completed his undergraduate degree with honours at Colorado State University in Colorado, USA.

He is proud to be a part of the metrology community which applies physical principles in such practical ways for the benefit of all. He looks forward to engaging further with his colleagues in the coming years.

NEWS FROM OUR PARTNER - GULFMET

**Dr Ismail Al-Faleh Appointed as New President of GULFMET**



The Gulf Association for Metrology is delighted to announce the appointment of Dr Ismail Al-Faleh as its new President for the term spanning from 1 January 2025 to 31 December 2027. This strategic decision

aligns with GULFMET's mission to strengthen metrology practices across the Gulf region.

Dr Al-Faleh is a prominent figure in the field, recognised for his extensive expertise and commitment to advancing metrology standards. His leadership is expected to drive continued growth and innovation within the organisation and enhance collaboration among member states.

**The GULFMET published the first scientific research**

The GULFMET published the first scientific research entitled "Development of Transfer Standards for Traceability of Hardness Diamond Indenter Calibration Systems" as part of its strategic projects aimed at supporting metrological capabilities in member states.

The research aims the developments in industry, technology, and scientific research force the producers to investigate different types of materials to serve higher quality products to consumers and in turn, this results in competition between them.

The project team participated in the IMEKO 2024 World Congress (Hamburg, 25-29 August 2024) and submitted a scientific paper for the research, which was accepted as peer-reviewed scientific research and was recently published on the ScienceDirect platform Elsevier through the [link](#).

## IMEKO AND THE BIPM - FORUM ON METROLOGY AND DIGITALISATION

Report of the 2<sup>nd</sup> meeting 17-21 February 2025.

The second FORUM-MD of the International Bureau for Weights and Measures (BIPM) took place from 17 to 21 February 2025 at BIPM (Sèvres, Paris, France). More than 90 representatives of numerous organisations attended the Forum.

The Forum was established by the



International Committee for Weights and Measures (CIPM / CGPM27) to address the challenges of the global digital transformation for metrology and to digitalise the services and products offered by BIPM. As an inclusive horizontal organisation, its mission is to act as a platform for the exchange of information and the creation of synergies.

The Forum is made up of six task groups and three working groups: Task Group on FAIR for Metrology, Task Group on Secure and Trustworthy AI (new name: Building a safe and trustworthy AI), Task Group on SI-digital Framework, Task Group on Metrological Semantics, Task Group on Harmonizing DCC and DRMC, Task Group on Data Quality in Metrology, Working Group on coordination between Consultative Committees, Working Group on coordination between Regional Metrology Organizations, Working Group on Strategy (steering committee). The TGs on Metrological Semantics and on Data Quality have applied for a merger.

The proposal to establish a 'Joint Statement of Intent (JSI) signatory roundtable' to serve as a platform for discussion between the signatories had been welcomed by the CIPM (CIPM/112-40) and had led to the Workshop 'Towards Digital Quality Infrastructure' which had taken place at the BIPM Headquarters on 5-6 March 2024 immediately preceding the first Forum. IMEKO is one of the signatories, and Frank Härtig, the Advisory President of IMEKO, is currently chair of the JSI Hub.

The task of the JSI Hub is to establish a link between the TGs and WGs of the Forum and the JSI stakeholders.

Frank Härtig reported as Chair of the JSI about recent activities and plans. The JSI Hub is part of an ongoing initiative by CIPM and Forum MD to develop and establish a worldwide uniform and secure data exchange format based on the SI associated with machine-actionable vocabularies, SMART standards, GUM in the digital age, FAIR principles, point as the separator, and SI reference point. There were, in total, two workshops in 2024 by the JSI Hub, one from NCSLI on challenges and opportunities of Digital Transformation in Metrology and one on Traceability as part of the IMEKO World Congress in Hamburg. The next activity of the JSI Hub will be a joint conference organised by IMEKO and OIML, to be held on 7 October 2025 in Berlin (PTB), in which interested parties from the IMEKO TCs are also welcome to participate.

Possible topics for workshops /discussions would be SMART Standards, GUM in the digital age, FAIR Principles & the SI Reference Point, and the point as a separator for digital certificates. The next meeting of the JSI Hub will be held in this context on 7 October 2025. For the 150<sup>th</sup> anniversary of BIPM (May 2025), the JSI-Hub submitted a draft for a joint presentational poster of all signatories for the poster section.

*Written by Alexander Knaak PTB*

## INTRODUCING ANNA HAJDUK AND ELSEVIER'S MESSAC 2025

Since last December, Anna Hajduk has been our new Elsevier Publisher, the successor of Kay Tancock.



Anna holds a PhD in Economics and Finance and joined Elsevier in 2022 after spending over a decade working on large-scale EU projects across various higher education institutions worldwide.

Originally from the beautiful city of Wroclaw, Poland, she made her home in Cambridge, UK, where she finds inspiration in the city's stunning architecture and vibrant academic atmosphere. When Anna is not immersed in scientific publishing, she enjoys challenging herself by studying Chinese characters, figure skating, or any new hobby she happens to discover. If you receive an out-of-office message from her, you can be sure she is off hitting the slopes for snowboarding or catching waves in the sun.



IMEKO supports the Measurement Sensor Systems and Applications Conference MeSSAC 2025, held on 17-20 August in Hangzhou, China.

MeSSAC is an interdisciplinary, international conference gathering novel contributions and advancements of the state-of-the-art in all knowledge domains related to sensors, sensory systems, metrology, instrumentation, and measurement. It aims to provide a venue for scientists, researchers, and companies working in the wide area of instrumentation and measurement to discuss applications, inventions, scientific results, and advancements.

It includes all scientific domains where measurements are applied, from chemistry to food, from physics to engineering, and from metrology to sensors and instruments.

MeSSAC 2025 will enable researchers and companies to discuss novel results and measurement methods, exchange ideas, create scientific partnerships, and source new ideas for measuring what is still unmeasurable.

In addition to keynote presentations, regular papers and poster presentations, other initiatives and opportunities such as tutorial sessions, industrial exhibits, tours to the start-of-the-art research facilities at Beihang University, meeting the Editors-in-Chief of the sensors and measurement journals of Elsevier are planned to enhance your experience with the conference and will make MeSSAC2025 a vibrant event to meet with people in sensors, measurement principles and their applications. Papers that are accepted and presented at MeSSAC2025 will be considered for publication in special issues of the IMEKO Measurement, Measurement: Sensors, Measurement: Energy and Measurement: Food. These features make MeSSAC2025 a unique event and one of the most important conferences in the field of sensors and measurement.

Conference Chairs are Prof. Paolo Carbone, IMEKO President, Editor-in-Chief of Measurement; Prof. Kenneth Grattan, IMEKO Publication Officer and Editor-in-Chief of Measurement: Sensors; and local organiser Prof. Yong Yan, Technical Committee 20 "Measurement Energy" Vice Chairperson and Editor-in-Chief of Measurement: Energy.