



INTERNATIONAL MEASUREMENT CONFEDERATION

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IMEKO NEWSLETTER – SPRING 2019

Dear Reader,

The first Newsletter for this year with fresh news from the International Measurement Confederation is here.

A copy of the Newsletter is also available on our website, www.imeko.org.

🔔 The Spring Presidential Meeting scheduled in Budapest, Hungary, for 2019 will be extended with a “Special Seminar” that includes the participation of the Chairpersons or

Scientific Secretaries from IMEKO Technical Committees (TC) to improve the TC's activities and involve more young members in the Confederation in future.

🔔 The theme for World Metrology Day (WMD) 2019 on 20 May is “The International System of Units Fundamentally better”. This theme was chosen because, **on 16 November 2018**, the General Conference on Weights and Measures agreed perhaps one of the most significant revisions to the International System of Units (the SI) since its inception. Research into new measurement methods, including those using quantum phenomena, underpins the change that comes into force on 20 May 2019. The SI is now based on a set of definitions, and each is linked to the laws of physics and has the advantage of being able to embrace further improvements in measurement science and technology to meet the needs of future users for many years to come. The science of measurement plays a central role in scientific fields, improves the quality of life and protects the global environment.

www.worldmetrologyday.org



🔔 Café-Debate: Metrology and Information Science and Communication

A debate will take place **on 20 May 2019 at 5.30 pm** at the “**Conservatoire National des Arts et Métiers**” (National Conservatory of Arts and Crafts) in Paris to mark World Metrology Day. The introductory topic will be: The Intersecting Challenges of Metrology and CIS in the Digital Era. Debates will cover topics such as Metrology, Data & Algorithms, Social Metrology & Citizen Sensors (Debates will be led by DICEN-IDF, CNAM, LNE, Université Paris 3-IRCA, SHS)

[CFM Newsletter 3 // April 2019](#)

🔔 3D Measurement Technology Provides Real-Time Gesture-based Human–Machine Interaction. Researchers at Fraunhofer IOF (Institute for Optics and Precision Engineering) in

Jena, Germany, are raising human–machine interaction to a new level: the high-speed 3D measurement and sensor technology developed in the 3D-LivingLab research project enables them to capture and interpret even complex movements—and does so in real time. **At the Hannover Messe (1–5 April 2019)**, the research team was demonstrating its gesture-based human–machine interaction technology using the example of a wall made up of 150 spheres that copies in 3D every head, arm and hand movement of a person standing in front of it, thus simplifying the workflows (from production scenarios to health and safety) greatly. The wall of spheres—representing cutting-edge technology—was created as part of the “3D-LivingLab” project.

www.iof.fraunhofer.de



🔒 Actions were taken by Elsevier Ltd. and IMEKO to meet the new EU GDPR law—the relevant Data Protection Addendum and with some new developments to the Measurement Journal Sponsorship Agreement and its companion journal, the Journal “Measurement Sensors”.

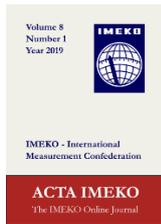
This new journal will publish the following types of papers: regular articles, which should describe original research of high quality in the field of sensors and sensor systems; review articles, which will generally be specially commissioned. However, the Editor-in-Chief welcomes suggestions for topics and authors as well as technical notes that provide rapid publication of important new contributions.

The Editor-in-Chief for “Measurement Sensors” is Prof Kenneth T. V. Grattan, who is fully supported by Prof Paolo Carbone, the Editor-in-Chief for “Measurement”.

Both agreements were signed in April 2019 by the President of IMEKO.

These contracts strongly contribute to the significant benefits to IMEKO in the years to come.

 **The issues of Acta IMEKO (Vol. 8.1) were published in April 2019**



 **Our former Polish GC Member**, the Representative of the Polish Member Organization of IMEKO **Prof Roman Z. Morawski's book "Technoscientific Research: Methodological and Ethical Aspects"** will be released **in the first 10 days of May 2019**, both in paperback and in the form of an eBook. This professional volume is mainly intended for graduate students of the empirical sciences, but it will also be useful for more mature researchers and for curiosity-driven undergraduate students of all fields. It emphasises the importance of measurement as a core operation of any empirical research and a non-negligible source of epistemic uncertainty. The author recommends his book for both teaching and research purposes since he based the contents of the book on his lectures on research ethics and research methodology delivered at Warsaw University of Technology since 2006.



 **Special topic "Sensor and Measuring Technology for Process Automation" of the SENSOR+TEST 2019**, the leading International Measurement Fair **from June 25 to 27 2019, at the Nuremberg Exhibition Centre** will offer suppliers and users the opportunity to participate in the innovation dialogue on new solutions and concepts in sensor and measuring technology in the industrial internet—based on the two most measured parameters, pressure and temperature, the diversity in process sensor and measuring technology has been the core of the SENSOR+TEST trade fair since its inception. To point out the significance of this topic, a **Special Stand dedicated to "Vision Sensors and Systems"** will be available for the visitors where companies and institutions will showcase their innovative products and solutions.

<https://www.sensor-test.de/sensor-test-2019-for-visitors/special-topic-sensor-and-measuring-technology-for-process-automation>



🔔 The site and the dates (!!) of the next **IMEKO (annual) 62nd General Council (GC) Session and the related (AB, TB and EB) Meetings:**

❖ **Advisory Board (AB) Meeting:**

Thursday morning, September 5 2019 (at PTB Berlin Institute, Germany)

❖ **62nd GC Session merged with Technical Board (TB) and Editorial Board (EB) Meetings:**

Thursday afternoon, September 5 2019 and whole Friday, September 6 2019 at PTB Berlin Institute, Germany)

Our German MO, Physikalisch-Technische Bundesanstalt (PTB), created an IMEKO GC webpage on PTB's website providing an outline of the programmes (including lab tours) and linking all necessary information.

<https://www.ptb.de/cms/en/ptb/fachabteilungen/abt1/imeko-gc.html>



PTB Berlin Institute

Other interesting topics

🔔 Smart City Strategy Index topped by Vienna

The Austrian capital Vienna has been declared the world's highest performing smart city for the second year running by the Smart City Strategy Index. The index compiled by experts at the strategy consulting firm Roland Berger analysed 153 cities with a published official smart city strategy in place. Ranking was based on a variety of factors, including a comprehensive deployment of smart city technology. Vienna ranked first because of its strong, integrated

framework strategy and innovative solutions for mobility, the environment, education, healthcare and public administration as well as a system to monitor the progress of the individual projects. The highest possible scores were given to the city planning, coordination and implementation of stakeholder partnerships in its smart city programme. **London** ranked second on the index, scoring highly in stakeholder partnerships and infrastructure connectivity, while the third on the list was **St Albert in Canada**.

Of the cities analysed only 10 per cent had a smart city strategy defined in the index as “comprehensive”. (While Europe and North America produced more smart cities, analysts found cities in Asia scored better overall for their smart city performance.)

www.governmenteuropa.eu/smart-city-strategy-index/92589

ID card security to be tightened

Representatives for the EU Presidency and the European Parliament have reached an agreement on boosting the security of EU identity cards and residency documents. Under the agreed provisional measures, which are to be presented to Member States’ ambassadors for confirmation, identity cards must adhere to a uniform credit card-style format, with a machine-readable zone, a contactless chip, a photograph of the cardholder and two fingerprints. They must also include the country code of the Member State in which they are issued. This proposal, which will enter into force two years after it is formally adopted, does not require Member States to introduce ID cards if they are not already required under national legislation.

www.governmenteuropa.eu/id-card-security/92344

EU short-stay visa reform: rules simplified

The European Parliament and Council have reached an agreement on the proposed reform of [short-stay visas for non-EU nationals](#).

The new EU Visa code will simplify the current application procedures for short-stay visas that last up to 90 days in any 180-day period. The policy is aimed at the simplified visa process for legitimate travellers visiting the EU for tourism or business purposes. The minimum time allowed remains 15 days before visa applicants plan to travel. The general fee for visa applications is set to increase from €60 to €80, with potential reductions for children and teenagers. Full-time students and researchers are currently exempt from paying the visa fee (this will not change under the reforms). This visa deal provisionally agreed on by negotiators will be passed to the Civil Liberties Committee for approval before it is voted on in the European Parliament’s plenary session.

www.governmenteuropa.eu/eu-short-stay-visa-reform

It is our pleasure to keep you informed of the latest news concerning the Confederation and to provide you with other relevant information. Please follow our website **<http://www.imeko.org>** as well.

IMEKO Secretariat

