



## INTERNATIONAL MEASUREMENT CONFEDERATION

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### IMEKO NEWSLETTER – SPRING 2018


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Dear Reader,

The first Newsletter of this year with interesting novelties from the International Measurement Confederation has come again.

A copy of the Newsletter is also available on our website, [www.imeko.org](http://www.imeko.org).

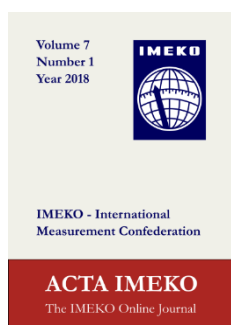
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 **Prof Dušan Agrež from Slovenia**, a senior scientist **from the Faculty of Electrical Engineering of the University of Ljubljana**, was appointed as the new Editor-in-Chief of Acta IMEKO **from January 1<sup>st</sup> 2018**, supported by the Presidium of IMEKO. Prof Agrež is an active researcher in IMEKO and is committed to continuing with the work of the previous Editor-in-Chief, Prof Paolo Carbone. We congratulate and wish him success in this nice scope of activity.



Prof Dušan Agrež

🔔 ACTA IMEKO published its issue Vol 7, No 1(2018) in April 2018.  
<https://acta.imeko.org/index.php/acta-imeko/issue/view/22>



🔔 EUROLAB and IMEKO signed a Memorandum of Understanding (MoU) on 20<sup>th</sup> February 2018 to increase the cooperation and dialogue between the two organizations. The MoU was signed by the EUROLAB President, Dr Álvaro Silva Riberio, and the IMEKO President, Prof Ken T. V. Grattan. Both organizations will define together strategies to develop joint activities and content for different events and will be jointly engaged in the research and application of the relationship between metrology, testing and industry. This will contribute to the enhancement of international cooperation among scientists and experts from both communities.



🔔 The theme for World Metrology Day (WMD) on May 20<sup>th</sup> 2018 is the ‘Constant evolution of the International System of Units (SI)’. This theme was chosen because in November 2018, the General Conference on Weights and Measures is expected to agree one of the most significant changes to the SI since its inception. The SI will be based on a set of definitions each linked to the laws of physics and have 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. Indeed more widely, metrology, the science of measurement, plays a central role in scientific discovery and innovation, industrial manufacturing and international trade, as well as in improving the quality of life and protecting the global environment. The WMD project is realized jointly by the BIPM and the OIML.



The 2018 poster was designated by of our Swiss Partner Member Organization, the Federal Institute of Metrology (METAS).



The slogan ‘constant evolution’ was proposed by our Italian Member Organization, the Italian National Metrology Institute (INRiM).



<http://www.worldmetrologyday.org>

🔔 Our Kazakh Member Organization, the National Metrology Institute of the Republic of Kazakhstan “KazInMetr”, on behalf of the Committee of Technical Regulation and Metrology of the Ministry for Investment and Development of the Republic of Kazakhstan welcomes and invites the Representatives of the regional and international organizations of Metrology and the directors of NMIs to take part in **the Seminar dedicated to the celebration of the WMD** with the theme “**The Permanent Evolution of the International Systems of Units**”, which will be held on **18<sup>th</sup> May 2018** in Astana, the capital of Kazakhstan.

🔔 The General Data Protection Regulation (GDPR) is a new European Privacy Law that will take effect on **25<sup>th</sup> May 2018**.

The EU’s independent data protection authority, **the European Data Protection Supervisor**, is responsible for ensuring that organizations comply with GDPR rules when the legislation enters into force on the date mentioned above.

**The aim of the GDPR Regulation 2016/679 of the EU is to provide for its citizens 1) the safe handling of their personal data, 2) defining the exercise of their rights in relation to data protection, and 3) applying the provisions on penalties in case of breach of data management/handling rules.**

The scope of this regulation applies to the processing of personal data also outside the territory of the EU where the data controllers entrust data processing to a data processor with the seat of the organization (for IMEKO, in Hungary). With the new GDPR regulation shortly coming into force, IMEKO wants to ensure its commitment to responsible data privacy and security practices.



**Special topic ‘Sensor and Measuring Technology in the Industrial Internet’ of the SENSOR+TEST 2018, the Measurement Fair from June 26<sup>th</sup> to 28<sup>th</sup> 2018** offers suppliers and users the opportunity to participate in the innovation dialog on new solutions and concepts in sensor and measuring technology in the industrial internet. The key to these achievements lies in networking and analysing the operating data of machines, systems and processes. Sensor, measuring, and testing systems provide these data accurately, reliably and securely and thus take on a key role in the industry of the future. At the Special Forum, a targeted and concentrated survey about new products and solutions will be made available to the attendees and visitors. On June 26<sup>th</sup> a dedicated session will complete the event organizers’ offer.

**<https://www.sensor-test.de/sensor-test-2018-for-visitors/special-topic-sensor-and-measuring-technology-in-the-industrial-internet>**



### **Festival of Measurement**

**Our UK Member Organization, the Institute of Measurement and Control (InstMC), the host of IMEKO XXII World Congress 2018, is launching the first-ever Festival of Measurement at the start of the IMEKO WC on 3<sup>rd</sup> September 2018.**

**The Festival will run for exactly 23 million seconds, ending just after the World Metrology Day (WMD), 20<sup>th</sup> May 2019. From this date the entire SI system of units is defined with reference to universal constants rather than physical artefacts.** During the lead up to WMD, there will be a greater than normal focus and discussion around the science of measurement in industry and the wider media. The Institute of Measurement and Control (InstMC) has designed the Festival to be a catalyst for these discussions and to promote measurement awareness and excellence.

The Festival is supported by many industrial companies and professional bodies.

Further details are available on the Festival website **[www.festivalofmeasurement.com](http://www.festivalofmeasurement.com)**



### **XXII IMEKO World Congress 2018**

Why is it worth attending this great event hosted by our UK MO, IstMC UK’s specialist Professional Engineering Institute supported by the Institute of Physics (IOP) to be held only every three years? Because more than 700 delegates from all over the world will attend the Congress, all of whom have one thing in common, their eminence and expertise in the field of measurement.

This Congress will cover all aspects of current research in the field of measurement and will attract some of the world’s largest companies from the sensor, instrumentation, automation and Internet of Things (IoT) industries. (Association with Measurement, the driving force behind

the Internet of Things and the Fourth Industrial Revolution [Industry 4.0].) You can hear from two Nobel laureates and senior international figures on a range of fascinating abstract topics, including the Quantum Hall Effect and Metrology and can enjoy a rich scientific programme over four days with a mixture of great lectures, workshops and interesting roundtable discussions.

IMEKO have received over 500 scientific paper submissions!

Two prominent events in conjunction with the IMEKO XXII World Congress shall be mentioned:

- ❖ **The 3<sup>rd</sup> Optical Fibre and Photonic Sensors for Industrial and Safety Applications (OFSIS) Conference** will be running in parallel with the XXII IMEKO WC in Belfast.  
<http://www.imeko2018.org/programme/scientific-programme/ofsis-2018/>
- ❖ **The Sensors & Applications series of conferences** provided by the **Institute of Physics (IOP)** will be an excellent opportunity to bring together scientists and engineers from academia, research institutes and industrial establishments.  
<http://www.imeko2018.org/programme/scientific-programme/institute-of-physics/>

The venue of the **IMEKO XXII WC 2018** is the **Belfast Waterfront** (Hall Conference & Exhibition Centre) and the duration of the event is **from Monday to Thursday, September 3<sup>rd</sup> - 6<sup>th</sup> 2018**.

<http://www.imeko2018.org>



🔔 The site and the dates of the IMEKO (annual) 61<sup>st</sup> General Council (GC) Session and the related (AB, TB and EB) Meetings:

- ❖ **Advisory Board (AB) Meeting:**  
Saturday morning, September 1<sup>st</sup> 2018 at 9.00 a.m. (Place: Hotel Hilton, Belfast, UK)
- ❖ **61<sup>st</sup> GC Session merged with Technical Board (TB) and Editorial Board (EB) Meetings:**  
Saturday afternoon, September 1<sup>st</sup> 2018 at 1.00 p.m. and Sunday, September 2<sup>nd</sup> 2018 at 9.00 a.m. (Place: Queen's University, Belfast, UK)



🔔 The new version of the ISO 9001 standard.

The new version of the **ISO 9001:2015 standard** introduces the concept of risks: economic, legal and image. Businesses rely on measurement to manage these risks. The metrology function is thus in the frontline, not only for the calibration and verification of measurement resources but also for

monitoring measurement. **This version takes over from the 2008 edition, and will be the only version in force from 1<sup>st</sup> November 2018.** The structure of the 2015 version has been revised in depth. The metrology function must meet the requirements of the relevant articles and especially 7.1.5, which covers monitoring and measuring resources. Other articles are also affected: article 7.2 on competence, articles 4.4 and 6.1 on the notion of risk, articles 8.1, 8.2, 8.4 and 8.5 on operational matters, article 9.1 on monitoring, measurement, analysis and evaluation and article 9.3 on management review must also be taken into consideration.



#### **🔔 Metrology management in a medical biology laboratory in 2018**

The medical biology laboratories must be accredited **in accordance with the NF EN ISO 15189 standard.** This standard goes beyond the quality aspect and emphasizes metrological requirements. These have led biology laboratories to formalize their needs. The necessity of metrology adapted to each laboratory has become an unavoidable fact, bringing with it the assurance of better quality and reliability in the published results.

**🔔 Our French MO, the Collège Français de Métrologie (CFM) has launched a new Working Group (WG) on metrology of the future entitled Creative Metrology.** This WG consists of major players in the fields of metrology, digital technology, industry and laboratories and aims to establish the foundations for a new metrology able to challenge projects associated with the connected factory of the future.



#### **🔔 XXIII IMEKO World Congress 2021**

**Yokohama Japan** has been chosen as **the host for the XXIII World Congress of IMEKO.** The WC will be attended by approx. 800 measurement technology experts from all over the globe. With the joint efforts of the city of Yokohama, **the Yokohama Convention & Visitors Bureau and the PACIFICO Yokohama Convention Center** in cooperation with the **Japan National Tourist Organization (JNTO)**, the city was able to make a successful bid for a World Congress.

**The Society of Instrument and Control Engineers (SICE), our Japanese Member Organization,** will take on the role of the local host.





### **🔔 EU proposes reforms to common visa policy**

**The European Commission (EC)** has proposed measures to reform **the EU common visa policy** to address evolving concerns, including security and migration. The EU common visa policy will make it easier for legitimate applicants to obtain visas to visit Europe while also increasing security and mitigating irregular migration. The Commission emphasized that a robust visa process is needed to maintain trade and business links and also to reinforce Europe's tourism and travel industry, which represent around 10% of the bloc's total GDP.

Among the proposed changes to the visa application process are a commitment **to reduce decision-making time for applications from 15 days to ten** and to allow travellers **to submit electronic applications up to six months** in advance of their planned trip.

**To facilitate more short-term tourism, member states** will be allowed to issue **single-entry visas** directly at external land and sea borders under seasonal schemes. **For repeat trips**, travellers with positive visa histories will be eligible for **multiple-entry visas with longer validity**.

The new rules will also strengthen the common visa policy of the European Union and can help improve its cooperation with non-EU countries.

**<https://www.governmenteuropa.eu/eu-proposes-reforms-common-visa-policy/>**

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

**IMEKO Secretariat**