



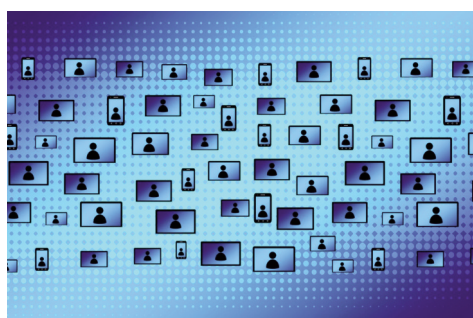
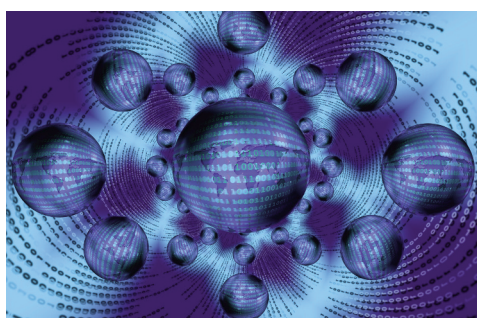
# OIML BULLETIN

VOLUME LXIII • NUMBER 1

JANUARY 2022

*Quarterly Journal*

*Organisation Internationale de Métrologie Légale*



16th International Conference  
and 56th CIML Meeting



## BULLETIN

VOLUME LXIII • NUMBER 1

JANUARY 2022

THE OIML BULLETIN IS THE  
JOURNAL OF THE  
ORGANISATION INTERNATIONALE  
DE MÉTROLOGIE LÉGALE

The Organisation Internationale de Métrologie Légale (OIML), established 12 October 1955, is an inter-governmental organization whose principal aim is to harmonize the regulations and metrological controls applied by the national metrology services of its Members.

**EDITOR-IN-CHIEF:** Anthony Donnellan  
**EDITOR:** Chris Pulham

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### OIML SECRETARIAT BUREAU INTERNATIONAL DE MÉTROLOGIE LÉGALE (BIML)

11 RUE TURGOT – 75009 PARIS – FRANCE

TEL: 33 (0)1 4878 1282

FAX: 33 (0)1 4282 1727

INTERNET: [www.oiml.org](http://www.oiml.org) or [www.oiml.int](http://www.oiml.int)  
[www.metrologyinfo.org](http://www.metrologyinfo.org)

#### BIML STAFF

##### DIRECTOR

Anthony Donnellan ([anthony.donnellan@oiml.org](mailto:anthony.donnellan@oiml.org))

##### ASSISTANT DIRECTORS

Paul Dixon ([paul.dixon@oiml.org](mailto:paul.dixon@oiml.org))

Ian Dunmill ([ian.dunmill@oiml.org](mailto:ian.dunmill@oiml.org))

##### STAFF MEMBERS (IN ALPHABETICAL ORDER)

Jalil Adnani: Database Systems Management  
([jalil.adnani@oiml.org](mailto:jalil.adnani@oiml.org))

Jean-Christophe Esmiol: IT Systems Management  
([jean-christophe.esmiol@oiml.org](mailto:jean-christophe.esmiol@oiml.org))

Florence Martinie: Administrator, Finance  
([florence.martinie@oiml.org](mailto:florence.martinie@oiml.org))

Luis Mussio: Engineer  
([luis.mussio@oiml.org](mailto:luis.mussio@oiml.org))

Chris Pulham: Editor/Webmaster  
([chris.pulham@oiml.org](mailto:chris.pulham@oiml.org))

Patricia Saint-Germain: Administrator, Members  
([patricia.saint-germain@oiml.org](mailto:patricia.saint-germain@oiml.org))

## OIML MEMBER STATES

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| ISLAMIC REPUBLIC OF IRAN | TURKEY                       |
| IRELAND                  | UKRAINE                      |
| ISRAEL                   | UNITED KINGDOM               |
| ITALY                    | UNITED STATES OF AMERICA     |
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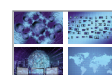
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|------------------------|----------------------|
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## Bonne année 2022 !

Janvier est le moment traditionnel de réfléchir aux réalisations de l'année écoulée et d'envisager nos priorités pour la nouvelle année. Je suis heureux de pouvoir affirmer qu'en dépit de la pandémie en cours, 2021 a été une fois de plus une année très productive pour l'OIML, avec de nombreux événements clés organisés en ligne, notamment la 16ème Conférence Internationale de Métrologie Légale, qui a été couronnée de succès en octobre 2021, et qui était la première fois dans l'histoire de l'OIML que la Conférence était organisée en ligne. Les 52 résolutions prises lors de la 56ème Réunion du CIML et de la 16ème Conférence démontrent que notre Organisation est pleinement opérationnelle en cette période difficile, et elles constituent une base solide pour une approche optimiste non seulement pour 2022, mais aussi pour la prochaine période budgétaire de quatre ans.

Plus important encore, la Conférence a approuvé le budget proposé pour la période 2022–2025, y compris une augmentation modeste des contributions des Membres de 1,4 % par an. Le budget comprend également une augmentation progressive des cotisations annuelles des Membres Correspondants jusqu'à ce que 50 % des cotisations des États Membres soient atteintes en 2028, afin de refléter le fait que les Membres Correspondants bénéficient désormais des services de l'OIML presque autant que les États Membres.

Une autre résolution importante de la Conférence a été la confirmation que la participation en ligne et en personne à toutes les réunions de l'OIML est considérée comme équivalente. Cela garantit la continuité des activités de notre Organisation et la rend « à l'épreuve du futur », même dans les conditions actuelles de pandémie. Pour plus de détails concernant toutes les résolutions prises lors des réunions, je vous renvoie aux rapports de synthèse publiés dans cette édition du Bulletin.

Que nous réserve la nouvelle année ? Avant tout, elle apportera les prochaines étapes vers la transformation

numérique de la métrologie en général, et de la métrologie légale en particulier. Une déclaration d'intention commune, approuvée lors de la 56ème Réunion du CIML, sera signée par l'OIML, le BIPM et d'autres organisations internationales et parties prenantes dans le domaine de l'infrastructure qualité. Un nouveau groupe de travail OIML sur la numérisation (DTG) sera créé, comprenant des experts en provenance d'États Membres, de Membres Correspondants et d'organisations en liaison et du BIML ; le DTG aura pour tâche d'examiner les défis et les actions nécessaires à entreprendre afin de faire entrer nos activités techniques, OIML-CS et CEEMS dans l'ère numérique et de rendre notre Organisation à l'épreuve du futur également à cet égard.

Le thème de la Journée Mondiale de la Métrologie pour 2022 sera également lié à la numérisation en métrologie, et le travail est actuellement en cours pour créer le site web de l'événement.

Je suis également très heureux de mentionner le tout nouveau site web de l'OIML, qui, avec son nouveau look moderne, offre un soutien encore meilleur à nos Membres et aux parties prenantes, ce qui, à l'heure actuelle, est également essentiel pour assurer l'avenir de notre Organisation.

Permettez-moi de saisir cette occasion pour exprimer mes remerciements à tous ceux qui ont soutenu et qui continuent de soutenir notre Organisation et sa mission, notamment l'équipe très motivée du BIML, les membres du Conseil de la Présidence, et enfin et surtout tous les Membres actifs du CIML.

Personne ne sait encore quand la pandémie cessera, et quand nous reviendrons à la normale, mais je suis très confiant que nous maîtriserons les défis et les tâches de la nouvelle année, comme nous l'avons fait les années précédentes, avec le même esprit et le même enthousiasme pour notre mission. Je vous adresse mes meilleurs vœux pour 2022. ■



DR ROMAN SCHWARTZ  
CIML PRESIDENT

## Happy New Year 2022!

January is the traditional time to reflect on the achievements of the past year and to consider our priorities for the New Year. I am happy to be able to state that despite the ongoing pandemic, 2021 was once again a very productive year for the OIML with many key events being held online, notably the successful 16th International Conference on Legal Metrology in October 2021, which was the first time in the history of the OIML that the Conference was held online. The 52 Resolutions taken during the 56th CIML Meeting and the 16th Conference demonstrate that our Organisation is fully operational in this difficult time, and they provide a sound basis for an optimistic approach not only for 2022, but for the next four-year budget period.

Most importantly, the Conference approved the proposed budget for the period 2022–2025, including a modest increase in membership contributions of 1.4 % per year. It also includes a gradual increase in the annual Corresponding Member fees until 50 % of the Member State fees is reached in 2028, to reflect the fact that Corresponding Members now benefit from OIML services almost as much as Member States do.

Another important Conference Resolution was the confirmation that online and in-person participation in all OIML meetings is considered equivalent. This ensures business continuity for our Organisation and makes it “future-proof”, even under the ongoing pandemic conditions. For further details concerning all the Resolutions taken during the meetings, I refer you to the summary reports published in this edition of the Bulletin.

So what will the new year bring? Most importantly, it will bring the next steps towards the digital transformation

of metrology in general, and of legal metrology in particular. A respective *Joint Statement of Intent*, as approved at the 56th CIML Meeting, will be signed by the OIML, the BIPM and other international organisations and stakeholders in the field of quality infrastructure. A new OIML Digitalisation Task Group (DTG) will be established, comprising experts from Member States, Corresponding Members, Organisations in Liaison and the BIML; the DTG will have the task of considering the challenges and necessary actions to be taken in order to lead our technical, OIML-CS, and CEEMS activities into the digital age and make our Organisation future-proof also in that respect.

The 2022 World Metrology Day theme will also be related to digitalisation in metrology, and work is currently under way to create the event website.

I am also very pleased to mention the brand new OIML website, which – together with its modern new look and feel – provides even better support to our Members and stakeholders, which in the present times is equally critical in order to future-proof our Organisation.

Let me take this opportunity to express my thanks to everyone who has supported and who continues to support our Organisation and its mission, notably the highly motivated BIML team, the members of the Presidential Council, and last but certainly not least all the active CIML Members.

It is not yet clear when the pandemic will cease, and when we will get back to normal, but I am very confident that we will master the challenges and tasks of the new year, as we did in the past years, with the same spirit and enthusiasm for our mission. My best wishes to you for 2022. ■





## 16TH CONFERENCE

## Online 16th Conference

20–21 October 2021

BIML

## Summary report

Sixteenth International Conference  
on Legal Metrology

20–21 October 2021 (Online)

The Sixteenth International Conference on Legal Metrology (The Conference) was held on 20–21 October 2021 as an online meeting. There were over 160 participants from OIML Member States, OIML Corresponding Members, and organisations in liaison.

Dr Charles Ehrlich (USA, First Vice-President of the International Committee of Legal Metrology (CIML)) was elected as the Conference President, and Dr Roman Schwartz (Germany, CIML President) and Dr Bob Joseph Mathew (Switzerland, CIML Second Vice-President) were elected as Conference Vice-Presidents.

Dr Roman Schwartz reported on the major activities that had taken place during the five years since the 15th International Conference on Legal Metrology in 2016, including the way in which the OIML had organised its activities during the pandemic, notably by holding its CIML meetings, Conference, technical meetings, and other meetings such as the OIML Certification System (OIML-CS) Management Committee (MC) and the

RLMO Round Table online. He summarised the financial situation of the Organisation and the proposal put to the Conference concerning Member contributions for the financial period 2022–2025. He also spoke of the introduction of the concept of “pillars” in the OIML’s approach to its technical work, the OIML-CS, Countries and Economies with Emerging Metrology Systems (CEEMS), and international cooperation work.

Dr Schwartz described the work undertaken to increase cooperation with other international organisations, notably the International Bureau of Weights and Measures (BIPM), citing World Metrology Day as a prime example of successful cooperation, and also the digital transformation agenda with regard to key metrological processes as another example.

The financial accounts for the period 2016–2020 were presented. The Conference noted that the budget had been managed in conformity with the expenses necessary for carrying out the work of the Organisation, and that the accuracy of the report had been certified by annual external audits. The Conference gave its definitive discharge to the CIML President and to the BIML Director for their management of the budget during the financial period.

The Conference studied the budget for the 2022–2025 financial period, including the proposal to revise Member State contributions and Corresponding Member fees, and approved the budget. The Conference also endorsed the Resolution taken by the CIML concerning the Operating Reserve Fund of the Organisation.

The Conference sanctioned the list of new, revised, and withdrawn publications approved by the CIML over the last five years.

Mr Anthony Donnellan, BIML Director, reported on the activities and achievements of the BIML and its staff over the five-year period, particularly the continued efforts to improve the effectiveness of OIML technical work and activities in favour of CEEMS, the OIML-CS, and World Metrology Day in close cooperation with the BIPM. Work with other liaison organisations also included close collaboration with the Organisation for Economic Co-operation and Development (OECD), notably the OIML’s contribution of various best-practice examples to the *Compendium of International Organisations’ Practices* (IO Compendium), which offers a single repository describing how IOs are striving to improve the quality and impact of their rulemaking.

Mr Donnellan emphasised the initiatives introduced by the BIML to minimise the impact of the pandemic and to ensure business continuity, and described the ongoing efforts to encourage new economies to join the Organisation, which currently comprises 125 Members, and efforts to reduce (and prevent) bad debt.

Dr Schwartz spoke about communications with OIML stakeholders. He notably mentioned the OIML Bulletin and the ongoing need for more contributions



Dr Roman Schwartz - CIML President  
(Pictured during the 16th Conference)



Dr Charles Ehrlich - President of the 16th Conference

from Members in the form of articles. The concept of "Mentors" to manage specific topics or themes, launched in 2020, has been very successful: the July 2021 Bulletin featured the topic "Digital transformation" and the theme for the October edition was "Legal metrology and health".

It is planned to hold the 17th Conference in 2025, and the 16th Conference Resolutions, documents, and presentations can be found on the OIML website at:

<https://www.oiml.org/en/structure/conference/sites>

## Rapport succinct

### Seizième Conférence Internationale de Métrologie Légale

20-21 octobre 2021 (En ligne)

La Seizième Conférence Internationale de Métrologie Légale (la Conférence) s'est tenue les 20 et 21 octobre 2021 sous forme de réunion en ligne. Il y avait plus de 160 participants des États Membres de l'OIML, des Membres Correspondants de l'OIML, et des organisations en liaison.

Le Dr Charles Ehrlich (USA, Premier Vice-Président du Comité International de Métrologie Légale (CIML)) a été élu Président de la Conférence, et le Dr Roman Schwartz (Allemagne, Président du CIML) et le Dr Bob Joseph Mathew (Suisse, Second Vice-Président du CIML) ont été élus Vice-Présidents de la Conférence.

Le Dr Roman Schwartz a rendu compte des principales activités qui ont eu lieu au cours des cinq années écoulées depuis la 15ème Conférence Internationale de Métrologie Légale en 2016, y compris la manière dont l'OIML a organisé ses activités pendant la pandémie, notamment en tenant ses réunions du CIML, sa Conférence, ses réunions techniques et d'autres réunions telles que le Comité de Management (MC) du Système de Certification OIML (OIML-CS) et la Table Ronde RLMO en ligne. Il a résumé la situation finan-

cière de l'Organisation et la proposition faite à la Conférence concernant les cotisations des Membres pour la période financière 2022-2025. Il a également parlé de l'introduction du concept de « piliers » dans l'approche de l'OIML concernant ses travaux techniques, le système OIML-CS, les pays et Economies dotés de Systèmes de Métrologie Emergents (CEEMS) et les travaux de coopération internationale.

Le Dr Schwartz a décrit les travaux entrepris pour accroître la coopération avec d'autres organisations internationales, notamment le Bureau International des Poids et Mesures (BIPM), citant la Journée Mondiale de la Métrologie comme un excellent exemple de coopération réussie, mais aussi le programme de transformation numérique en ce qui concerne les processus métrologiques clés comme autre exemple.

Les comptes financiers pour la période 2016-2020 ont été présentés. La Conférence a noté que le budget avait été géré en conformité avec les dépenses nécessaires à la réalisation des travaux de l'Organisation, et que l'exactitude du rapport avait été certifiée par des audits externes annuels. La Conférence a donné son quitus définitif au Président du CIML et au Directeur du BIML pour leur gestion du budget au cours de l'exercice.

La Conférence a étudié le budget pour la période financière 2022-2025, y compris la proposition de révision des cotisations des États Membres et des abonnements forfaitaires des Membres Correspondants, et a approuvé le budget. La Conférence a également approuvé la résolution prise par le CIML concernant le fonds de réserve opérationnel de l'Organisation.

La Conférence a sanctionné la liste des publications nouvelles, révisées et retirées, approuvées par le CIML au cours des cinq dernières années.

M. Donnellan a souligné les initiatives mises en place par le BIML pour minimiser l'impact de la pandémie et assurer la continuité des affaires, et a décrit les efforts en cours pour encourager de nouvelles économies à rejoindre l'Organisation, qui compte actuellement 125 Membres, ainsi que les efforts pour réduire (et prévenir) les créances douteuses.

Le Dr Schwartz a parlé de la communication avec les parties prenantes de l'OIML. Il a notamment mentionné le Bulletin de l'OIML et le besoin permanent de davantage de contributions des Membres sous forme d'articles. Le concept de « Mentors » pour gérer des sujets ou des thèmes spécifiques, lancé en 2020, a connu un grand succès : le Bulletin de juillet 2021 a présenté le sujet « Transformation numérique » et le thème de l'édition d'octobre était « Métrologie légale et santé ».

Il est prévu d'organiser la 17ème Conférence en 2025. Les résolutions, documents et présentations de la 16ème Conférence peuvent être consultés sur le site web de l'OIML à l'adresse suivante :

<https://www.oiml.org/fr/structure/conference/sites>

## 56TH CIML MEETING

### Online 56th CIML meeting

18, 19 and 22 October 2021

BIML



Mr Anthony Donnellan - BIML Director  
(Pictured during the 16th Conference)

## Summary report

### Fifty-sixth meeting of the International Committee of Legal Metrology

18, 19 and 22 October 2021 (Online)

The Fifty-sixth meeting of the International Committee of Legal Metrology (CIML) was held on 18, 19 and 22 October 2021 as an online meeting due to the COVID-19 pandemic. There were over 160 participants, from OIML Member States, OIML Corresponding Members, and organisations in liaison.

The CIML President, Dr Roman Schwartz, reported on the major activities that had taken place during the year, including the preparations for the 56th CIML Meeting and 16th International Conference on Legal Metrology (16th Conference), the preparation of the budget for the next financial period, and closer cooperation with other international organisations. Finally, he presented his vision for the OIML, together with the BIPM, to jointly support the worldwide digital transformation process with regard to key metrological processes.

The BIML Director, Mr Anthony Donnellan, reported on the various activities and achievements of the BIML and its staff, particularly the continued efforts to improve the effectiveness of OIML technical work and activities in favour of Countries and Economies with Emerging Metrology Systems (CEEMS), the OIML Certification System (OIML-CS), World Metrology Day in close cooperation with the BIPM, and work with other liaison organisations. He emphasised the initiatives introduced by the BIML to minimise the impact of the pandemic and to ensure business continuity, and he outlined the budget planning process for the next financial period. Finally, he also presented the efforts that are ongoing to encourage new economies to join the Organisation, which currently has 125 Members.

Following on from 2020, when the CIML meeting resolutions were voted on in the weeks following the meeting, this year a system was implemented by the BIML to enable the CIML and Conference to approve Resolutions at the end of each meeting session.

The accounts for 2020 were presented and were approved by the CIML. Mr Donnellan reported that the Organisation continues to be in a strong financial position. The budget for the period 2022–2025 was examined and approved by the CIML and submitted to the 16th Conference, which also endorsed the future-focused budget.

The BIML reported on its activities with organisations in liaison. In addition, a summary of the detailed discussions held during the Regional Legal Metrology Organisations (RLMO) Round Table held on 30 September was presented by its current chairperson, Dr Charles Ehrlich. Other organisations in liaison (BIPM, CECIP, COOMET, EURAMET, IAF, ICUMSA, IEC, SIM and UNIDO) also submitted written reports on their activities.

The BIML gave a report on the progress of the technical work of the Organisation, and lists of high-priority projects and publications were approved by the CIML.

The following publications were approved by the CIML:

- Revision of R 126 *Evidential breath analysers*; and
- Update of R 60 *Metrological regulation for load cells*.

The following new projects were approved by the CIML:

- New Recommendation *Contact clinical thermometers*;
- New Recommendation *Non-contact clinical thermometers*;
- New Recommendation *Requirements for the evaluation of NIBP simulators used for the testing of automated non-invasive sphygmomanometers*;



- New Guide and Recommendation *Electric vehicle charging stations*;
- New Guide *Guidelines for the evaluation of automated sphygmomanometers using oscillometric signal generators able to generate real-life oscillometric signals*;
- Revision of OIML R 49:2013 *Water meters for cold potable water and hot water*;
- Revision of OIML R 148:2020 *Non-invasive non-automated sphygmomanometers*;
- Revision of OIML R 149:2020 *Non-invasive automated sphygmomanometers*;
- Revision of OIML B 12:2004 *Policy paper on liaisons between the OIML and other bodies*; and
- Update of OIML V 1:2013 *International vocabulary of terms in legal metrology (VIML)*.

The CIML President spoke about communications with OIML stakeholders. He notably mentioned the OIML Bulletin and the ongoing need for more contributions from Members in the form of articles. The concept of “Mentors” to manage specific topics or themes, launched in 2020, has been very successful: the July 2021 Bulletin featured the topic “Digital transformation” and the theme for the October edition was “Legal metrology for health”.

Mr Ian Dunmill, BIML Assistant Director, gave an update on the activities of the CEEMS Advisory Group (CEEMS AG) on behalf of its Chairperson, Mr Peter Mason. The report stressed that, although no new training activities had been possible, the development of a new publication *Application of online technology to capacity building* and other CEEMS activities had advanced well and should be completed in the coming year. Work on updating and expanding the OIML’s online training platform was also progressing, and a new initiative of regular one-hour webinars had been started, archives of which would be made available on the OIML website.

The OIML-CS Management Committee Chairperson, Mr Mannie Panesar, reported on the activities of the OIML-CS, including the online MC meeting held in March 2021. He reported that despite the impact of the pandemic, the OIML-CS continues to function well and the number of OIML certificates issued in 2021 is expected to increase significantly when compared with 2020. The CIML approved the MC proposal to allow OIML Issuing Authorities to use ISO/IEC 17020 (with additional requirements) as an alternative to ISO/IEC 17065 to demonstrate competence.

An OIML medal was awarded to Dr Stephan Mieke for his contribution to the work of the OIML. Letters of Appreciation were presented to Mrs Laetitia Delette, Mrs Regina Klüß, Mr Peter Eekhout, Mr Ken Butcher,

and Mr Chris Pulham for their contribution to the work of the OIML.

The 2021 OIML CEEMS Award was awarded to Mr Sophors Em, Cambodia, for his outstanding contributions to the work of the OIML.

It is planned to hold the 57th CIML Meeting in Suzhou, P.R. China, in October 2022.

The 56th CIML Meeting Resolutions, documents, and presentations can be found on the OIML website at

<https://www.oiml.org/en/structure/ciml/sites>

## Rapport succinct

### Cinquante-sixième Réunion du Comité International de Métrologie Légale

18, 19 et 22 octobre 2021 (en ligne)

La Cinquante-sixième Réunion du Comité International de Métrologie Légale (CIML) s’est tenue les 18, 19 et 22 octobre 2021 sous forme de réunion en ligne en raison de la pandémie de COVID-19. Il y avait plus de 160 participants, provenant des États Membres de l’OIML, des Membres Correspondants de l’OIML et des organisations en liaison.

Le Président du CIML, Dr Roman Schwartz, a présenté les principales activités qui ont eu lieu au cours de l’année, notamment les préparatifs de la 56ème Réunion du CIML et de la 16ème Conférence Internationale de Métrologie Légale (16ème Conférence), la préparation du budget pour le prochain exercice financier, et une coopération plus étroite avec d’autres organisations internationales. Enfin, il a présenté sa vision pour l’OIML, en collaboration avec le BIPM, afin de soutenir conjointement le processus mondial de transformation numérique en ce qui concerne les processus métrologiques clés.

Le Directeur du BIML, M. Anthony Donnellan, a présenté un rapport sur les diverses activités et réalisations du BIML et de son personnel, en particulier les efforts continus pour améliorer l’efficacité du travail technique de l’OIML et les activités en faveur des Pays et Economies dotés de Systèmes de Métrologie Emergents (CEEMS), le Système de Certification de l’OIML (OIML-CS), la Journée Mondiale de la Métrologie en étroite collaboration avec le BIPM, et le travail avec d’autres organisations de liaison. Il a souligné les initiatives mises en place par le BIML pour minimiser l’impact de la pandémie et assurer la continuité des activités, et il a exposé le processus de planification budgétaire pour la prochaine période financière. Enfin, il a également présenté les efforts en cours pour encourager de nouvelles économies à rejoindre l’Organisation, qui compte actuellement 125 Membres.



En suivant ce qui a été fait en 2020, où les Résolutions de la Réunion du CIML étaient votées dans les semaines suivant la réunion, un système a été mis en place cette année par le BIML pour permettre au CIML et à la Conférence d'approuver les résolutions à la fin de chaque session de réunion.

Les comptes pour 2020 ont été présentés et approuvés par le CIML. M. Donnellan a indiqué que l'Organisation continue d'être dans une position financière solide. Le budget pour la période 2022-2025 a été examiné et approuvé par le CIML et soumis à la 16ème Conférence, qui a également approuvé le budget axé sur l'avenir.

Le BIML a rendu compte de ses activités avec les organisations en liaison. De plus, un résumé des discussions détaillées tenues lors de la Table Ronde des Organisations Régionales de Métrologie Légale (RLMO) qui s'est tenue le 30 septembre a été présenté par son président actuel, le Dr Charles Ehrlich. Les autres organisations en liaison (BIPM, CECIP, COOMET, EURAMET, IAF, ICUMSA, CEI, SIM et ONUDI) ont également soumis des rapports écrits sur leurs activités.

Le BIML a présenté un rapport sur l'état d'avancement des travaux techniques de l'Organisation, et des listes de projets et de publications hautement prioritaires ont été approuvées par le CIML.

Les publications suivantes ont été approuvées par le CIML :

- Révision de la R 126 *Éthylomètres ; et*
- Mise à jour de la R 60 *Réglementation métrologique des cellules de pesée.*

Les nouveaux projets suivants ont été approuvés par le CIML :

- Nouvelle Recommandation *Thermomètres de contact cliniques ;*
- Nouvelle Recommandation *Thermomètres cliniques sans contact ;*
- Nouvelle Recommandation *Exigences relatives à l'évaluation des simulateurs de PNI utilisés pour l'essai des sphymomanomètres automatisés non invasifs ;*
- Nouveau Guide et Recommandation *Stations de recharge de véhicules électriques ;*
- Nouveau Guide *Directives pour l'évaluation des sphymomanomètres automatisés utilisant des générateurs de signaux oscillométriques capables de générer des signaux oscillométriques réels ;*
- Révision de la OIML R 49:2013 *Compteurs d'eau potable froide et d'eau chaude ;*
- Révision de la OIML R 148:2020 *Sphymomanomètres non invasifs non automatiques ;*
- Révision de la OIML R 149:2020 *Sphymomanomètres non invasifs automatiques ;*
- Révision de la OIML B 12:2004 *Document de*

*politique générale sur les liaisons entre l'OIML et les autres organismes ; et*

- Mise à jour du OIML V 1:2013 *Vocabulaire international des termes de métrologie légale (VIML).*

Le Président du CIML a parlé de la communication avec les parties prenantes de l'OIML. Il a notamment mentionné le Bulletin de l'OIML et le besoin permanent de plus de contributions des Membres sous forme d'articles. Le concept de « Mentors » pour gérer des sujets ou des thèmes spécifiques, lancé en 2020, a connu un grand succès : le Bulletin de juillet 2021 a présenté le sujet « Transformation numérique » et le thème de l'édition d'octobre était « Métrologie légale pour la santé ».

M. Ian Dunmill, Adjoint au Directeur du BIML, a fait le point sur les activités du Groupe Consultatif CEEMS (CEEMS AG) au nom de son Président, M. Peter Mason. Le rapport a souligné que, bien qu'aucune nouvelle activité de formation n'ait été possible, le développement d'une nouvelle publication *Application de la technologie en ligne au renforcement des capacités* ainsi que d'autres activités du CEEMS avaient bien avancé et devraient être achevés dans l'année à venir. Le travail de mise à jour et d'expansion de la plateforme d'apprentissage en ligne de l'OIML a également progressé, et une nouvelle initiative de webinaires réguliers d'une durée d'une heure a été lancée, dont les archives seront disponibles sur le site web de l'OIML.

Le Président du Comité de Management de l'OIML-CS, M. Mannie Panesar, a rendu compte des activités de l'OIML-CS, notamment de la réunion du Comité de Management en ligne qui s'est tenue en mars 2021. Il a indiqué que malgré l'impact de la pandémie, l'OIML-CS continue de bien fonctionner et que le nombre de certificats OIML délivrés en 2021 devrait augmenter de manière significative par rapport à 2020. Le CIML a approuvé la proposition du MC permettant aux Autorités de Délivrance OIML d'utiliser la Norme ISO/CEI 17020 (avec des exigences supplémentaires) comme alternative à la Norme ISO/CEI 17065 pour démontrer la compétence.

Une médaille OIML a été décernée au Dr Stephan Mieke pour sa contribution aux travaux de l'OIML. Des Lettres d'Appréciation ont été présentées à Mme Laetitia Delette, Mme Regina Klüß, M. Peter Eekhout, M. Ken Butcher, et M. Chris Pulham pour leur contribution aux travaux de l'OIML.

Le prix OIML CEEMS 2021 a été décerné à M. Sophors Em, Cambodge, pour sa contribution exceptionnelle aux travaux de l'OIML.

Il est prévu d'organiser la 57ème Réunion du CIML à Suzhou, en République Populaire de Chine, en octobre 2022.

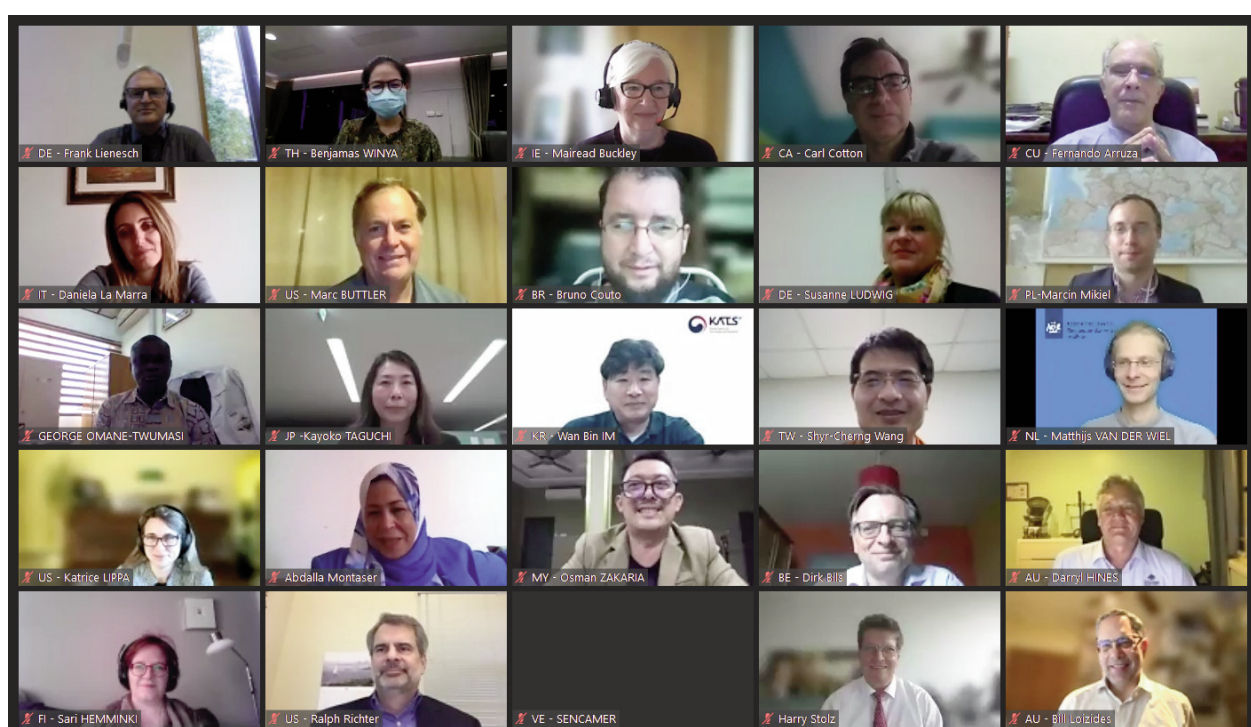
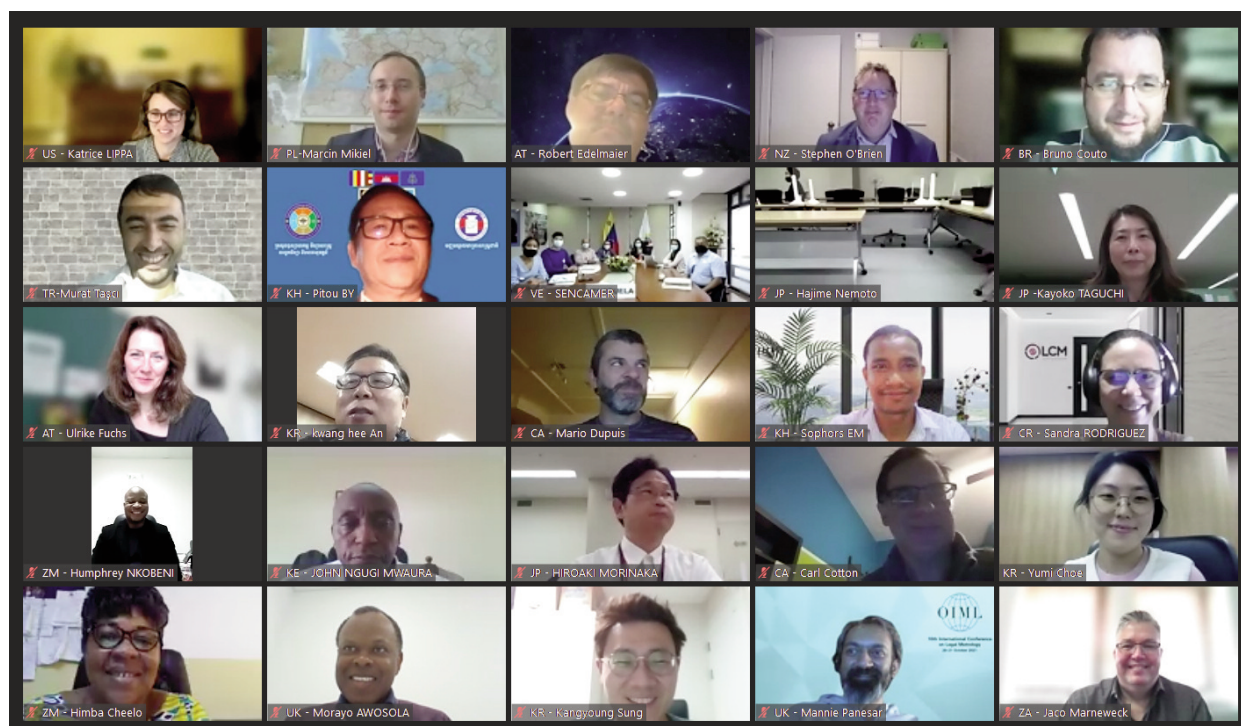
Les résolutions, documents et présentations de la 56ème Réunion du CIML sont disponibles sur le site de l'OIML à l'adresse

<https://www.oiml.org/en/structure/ciml/sites> ■



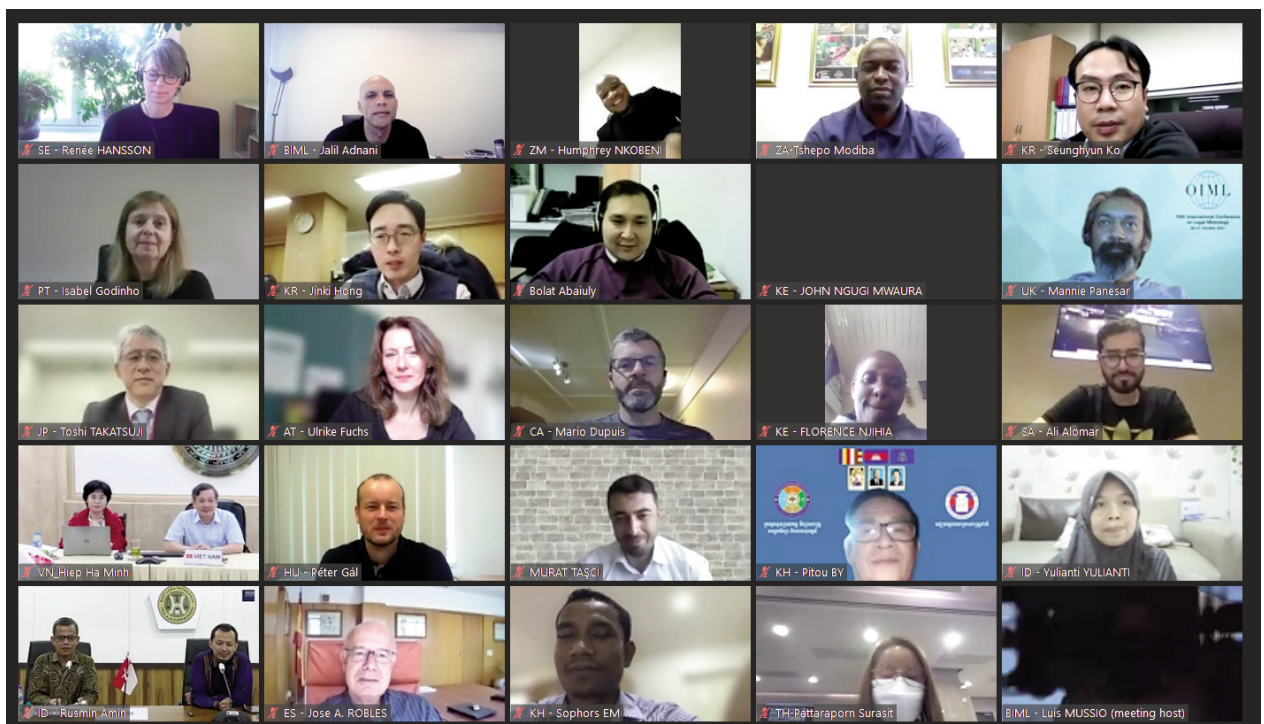
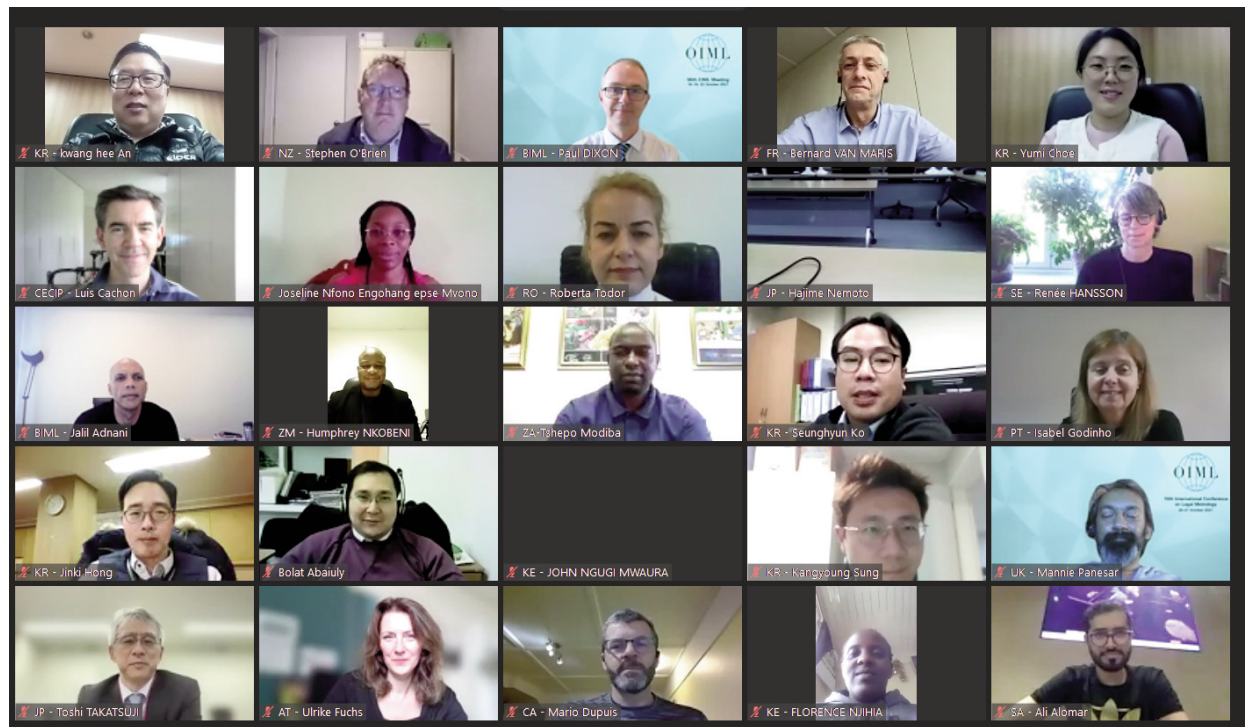
Delegates attending the 56th CIML Meeting via Zoom





Delegates attending the 56th CIML Meeting via Zoom





Delegates attending the 56th CIML Meeting via Zoom





The German delegation, the supporting PTB team, and BIML representatives during the one-week OIML event, which was managed from PTB Braunschweig. From left to right: Prize winner Regina Klüß, Dr. Frank Lienesch (Head of Division “Legal and International Metrology”), Katharina Gierschke (Federal Ministry for Economic Affairs and Climate Action), Uta Schulze (Assistant, Department Legal Metrology and Conformity Assessment), Ian Dunmill (BIML Assistant Director), Dr Roman Schwartz (CIML President), Susanne Ludwig (OIML Office at PTB), Anthony Donnellan (BIML Director), Stephanie Koepsell (Assistant Office of the Conformity Assessment Body), Dr Harry Stolz (Head of Working Group Office of the Conformity Assessment Body)



The meetings were hosted from the PTB, Braunschweig. Left to right: Dr Roman Schwartz, Mr Ian Dunmill and Mr Anthony Donnellan



## OIML Awards

### presented at the Online 56th CIML Meeting

At its Online 56th Meeting,  
the Committee made the following awards:

- An **OIML Medal**, for his contribution to the work of the OIML, to Dr Stephan Mieke



- OIML **Letters of Appreciation**, for their contribution to the work of the OIML, to:

- Ms Laetitia Delette
- Ms Regina Klüß (pictured right)
- Dr Peter Eekhout
- Mr Ken Butcher
- Mr Chris Pulham

- The 2021 OIML **CEEMS Award** to:

- Mr Sophors Em (Cambodia)



Presentation of the OIML Letter of Appreciation  
to Ms Regina Klüß by the CIML President,  
Dr Roman Schwartz

## RLMO RT

## Report on the RLMO Round Table Meeting

### 30 September 2021

DR CHARLES EHRLICH AND BIML

**This report for the January 2022 OIML Bulletin is a transcript of the presentation given by Dr Charles Ehrlich under item 15.1 of the 56th CIML Meeting:**

#### *Report by the RLMO Round Table Chairperson*

Dr Schwartz asked Dr Charles Ehrlich, RLMO Round Table Chairperson, to make the report under this item.

Dr Ehrlich thanked Dr Schwartz, adding that he was pleased to report that the RLMO Round Table had been very active during the current year. This had included, for the first time, holding two interim meetings in addition to the annual meeting. He added that they had all been held online using video conferencing. The first interim meeting had been held in April 2021 and the second had been held in June 2021. Dr Ehrlich reported that at these interim meetings, there had been no formal presentations from the RLMOs providing updates about what had been happening in their regions, but rather these interim meetings had been used primarily to discuss the numerous issues that had been discussed at the previous year's annual Round Table meeting, and to plan for the current year's annual meeting which had been held online on 30 September 2021.



Dr Charles Ehrlich - RLMO Round Table Chairperson

Dr Ehrlich displayed slides listing two of the key outcomes of this meeting, which were that the OIML website now had a dedicated Round Table section, as well as a new Round Table Workspace, which had been set up so that Round Table participants could share documents of mutual interest. Dr Ehrlich thanked the BIML team, especially Mr Chris Pulham and Mr Luis Mussio for setting these up.

Dr Ehrlich displayed a screenshot of the new Round Table webpage, where delegates could see the logos of each of the six RLMOs. He said that if delegates clicked on any of these logos, they would be taken to home page of that RLMO. He indicated that on the far left side of his slide, under the blue banner "RLMO Round Table" there were links to the last two Round Table annual meetings, where delegates would find those meetings' agendas, leading to further links to the individual presentations made at those meetings.

Dr Ehrlich commented that his next slide displayed the agenda of the annual meeting held on 30 September 2021. The Round Table website had links to all of the update presentations. He especially wanted to thank all the presenters from the six RLMOs displayed in agenda item 5, who had continued to provide excellent support and representation of their regions. He said he would briefly discuss each of their presentations towards the end of his current presentation. He encouraged delegates to visit the new Round Table website and take a look at the presentations themselves, so they could see many of the interesting events happening in the regions. Besides the updates from individual RLMOs, Dr Ehrlich reported there had also been presentations on CEEMS Advisory Group and OIML Certification System (OIML-CS) activities of interest and importance to the regions. Dr Ehrlich highlighted that during the annual meeting, there had also been a special session scheduled, as well as an open forum session, about which he would say more shortly.

Firstly, Dr Ehrlich said he wanted to show delegates some other key outcomes of the interim Round Table meetings, in order to emphasise the benefits of holding these interim meetings, and to encourage all delegates to consider taking part in them, since they had served as a good forum for facilitating better communication between and among the regions. Dr Ehrlich reported that part of the discussion at both of the interim meetings had been about how input from the regions could be taken to the OIML Task Group that had been working on training on e-Learning, so as to enhance the benefits of e-Learning platforms that already existed, as well as those which were under development in the OIML and the regions. Another discussion topic had been to solicit mentors for the OIML Bulletin. Dr Ehrlich considered that the interim meetings had also been helpful to further facilitate communication about the benefits the OIML-CS could provide to the

regions, and at the same time to obtain information from the OIML-CS leadership about additional information, training and promotion which would help the regions. Dr Ehrlich said he was optimistic that this ongoing dialogue through the Round Table would prove useful to the expansion of the OIML-CS into the regions.

At the first interim Round Table meeting, the CEEMS Advisory Group Chair, Mr Peter Mason, had provided an update on what the CEEMS Advisory Group had been doing, and in particular had solicited volunteers to work on chapters of a strategy document on online technology which had been under development in the CEEMS Advisory Group. Dr Ehrlich commented that delegates would have already heard about this earlier during the current CIML meeting. He reported that Mr Dunmill had since updated Round Table members that this document was progressing. Another key outcome of the interim Round Table meetings had been to decide not to take any steps towards formalising the relationship between the RLMOs and the OIML, but rather to leave things the way they had been, which Dr Ehrlich considered seemed to be working fine. However, it had been agreed to submit a project proposal, which delegates would have seen earlier in the CIML meeting, to revise OIML B 12 *Policy paper on liaisons between the OIML and other bodies* to say that the arrangements between the OIML and the regions would remain as they were, but that this arrangement would be evaluated regularly.

Also at the first Round Table interim meeting, Pavel Klenovský had offered to make a special presentation on smart electricity meters at the annual Round Table meeting. This proposal was gladly accepted by everyone. However, due to unexpected technical difficulties, he had been unable to make this presentation, although he has agreed to try again at the next interim Round Table meeting which will take place on 20 January 2022. Another important outcome of the first interim meeting was to develop a common PowerPoint presentation format for use when providing RLMO updates at the annual Round Table meetings in order to bring some uniformity to the information being provided, as well as to provide the information which is considered to be of most benefit to the attendees. Dr Ehrlich explained that the five main headings used by presenters had been:

- Overview of significant developments and activities during the past year in the RLMO;
- Overview of the most urgent technical and other legal metrology issues in the region during the past year in the RLMO;
- Anticipated calendar of events for the coming year in the RLMO;
- Comments on RLMO discussion topics for this year; and
- Summary/concluding remarks.

He pointed out that all the presentations could be found on the new Round Table page on the OIML website.

Another important outcome from the first interim Round Table meeting had been that there would be a single discussion topic at the annual Round Table meeting. It was decided that this topic should be “How is your RLMO approaching digitalisation pertaining to measuring instruments in your region?”, which was chosen in recognition of the significant international attention this subject has gained over the last few years, as had already been heard this week. Delegates had also heard how the BIPM was intending to make its core documents, such as the SI brochure, machine accessible and readable using the so-called FAIR principles. As delegates had also heard this week from Dr Schwartz, the OIML is also establishing a Task Group on digitalisation.

During the individual RLMO presentations, it had become clear that the implementation of digitalisation varied between regions, and he would discuss this more later. In fact, the term “digitalisation” itself is sometimes interpreted in different ways, which will undoubtedly be an interesting and important topic for the Round Table to follow for quite a while.

The annual Round Table meeting had also discussed possible topics for the next interim Round Table meeting:

- Continue the annual RLMO Round Table meeting as a virtual meeting, to provide opportunity for people to attend who would not be coming to in-person CIML meetings;
- Make it a two-day event, with updates one day, and the annual discussion topics and specialty topics on the second day;
- Open participation in the annual RLMO Round Table meeting to anyone who wants to attend (to promote broader awareness of what is happening in the regions);
- Keep the interim RLMO Round Table meetings closed (using them primarily as planning and ‘special-issue’ meetings)? Hold quarterly interim Round Table meetings; and
- Obtain more clarification from the CEEMS countries in the regions on what the new ‘Part 5’ of Recommendations (*verification requirements*) should contain.

Dr Ehrlich indicated that the first two suggestions concerned next year’s annual Round Table meeting. The first of these would allow a greater number of people to attend, even if CIML meetings can be held in-person, and gives great flexibility about when the annual Round Table meeting could be held. In the last two years, it has been held a week or two before the CIML meeting,



rather than during the same week. The idea of quarterly meetings was also being explored since the next interim Round Table meeting was already planned for January 2022. The final topic suggestion had stemmed from the recent Project Group meeting on the revision of R 76, and was to see whether CEEMS in the regions could help in defining what should be included in the proposed “Part 5” to Recommendations on which requirements of Recommendations should be used for verification rather than type evaluation.

Dr Ehrlich concluded his presentation with some highlights from each of the individual RLMO presentations:

- **AFRIMETS:** Mr Jaco Marneweck had explained that the new African Continental Free Trade Agreement had come into force in May 2019, which he said had created the largest free trade area in the world by number of participating countries (55). It would connect 1.3 billion people, and have the potential to lift millions out of extreme poverty. He had added that this would require significant policy reform and trade facilitation measures across Africa. Mr Marneweck had also pointed out that digitalisation was still at the emerging or developmental stage in many African countries.
- **APLMF:** The new APLMF president, Dr Osman Zakaria from Malaysia, gave the report since his country has just taken over this RLMO's secretariat. He reported that there were currently 27 APLMF member economies, and that a new five-year strategic plan had been developed. Dr Zakaria had also informed the meeting that the APLMF had conducted a number of seminars and training sessions over the last year using Zoom. These had included e-Learning modules on NAWIs, on fuel dispensers, and soon on conformity to type. A workshop was also being planned to explore the scope of digitalisation efforts in the Asia-Pacific region.
- **COOMET:** Dr Yuriy Kuzmenko reported on the history of COOMET, which was celebrating its 30th anniversary, for which Dr Ehrlich offered his congratulations. COOMET TC 2 on legal metrology had held a well-attended webinar on “The role of measurement uncertainty in conformity assessment decisions in legal metrology”, which made use of OIML G 19 on this topic. Dr Ehrlich reported that a video of this event could be found on YouTube. COOMET had also held (the day before) a workshop on digital transformation in metrology for young metrologists, and has established a new Working Group on “digitalisation in metrology” led by a young researcher from the Russian Federation.
- **GULFMET:** Eng. Omar Kanakrieh had reported that the CIPM had now admitted GULFMET as a full member of the Joint Committee on Regional Bodies

(JCRB), including voting rights, and Dr Ehrlich congratulated GULFMET on this achievement. Also, the GCC Common Metrology Law is being updated, and a GCC certification scheme is being developed based on the OIML-CS, which was an exciting development. GULFMET will also decide on a proposal to establish a Working Group on digital transformation at the next GULFMET GA in November 2021.

- **SIM:** Mr Pedro Pérez, chairman of the SIM Legal Metrology Working Group (LMWG), reported that a repository on metrological verification of prepackaged products in SIM countries is under development. He also noted that the SIM web page on legal metrology had been updated, and that meetings of the SIM LMWG are being held every three months to discuss topics of relevance to SIM members. Dr Ehrlich reported that he had enjoyed participating in these meetings. Mr Pérez had also pointed out that translations of documents and meetings is a key need in the SIM countries, since there are around 30 countries in the region, and not everyone can speak or understand each other's languages. There is also a lot of activity in SIM concerning digitalisation, with four countries having active programmes in this area: SIMEL (Colombia), RBMLQ-I (Brazil), SICOMET (Argentina) and, recently, INACAL (Peru).
- **WELMEC:** The chairman, Pavel Klenovský, had reported that WELMEC was now fully established as a legal body and is moving towards closer cooperation with EURAMET to provide a single voice for metrology in Europe. He also noted that the regulation of smart meters, electric vehicle charging stations, and hydrogen refuelling stations are all active areas of interest within WELMEC. Software validation and digitalisation had been an important topic for many years, especially within WELMEC WG 7, and they were working to establish more trust in the area of smart meters.

Dr Ehrlich concluded by saying that this had been just a brief overview of the Round Table discussions and presentations, and he encourage all delegates to go to the new Round Table webpage on the OIML website for more details on the many individual presentations. He thanked delegates for their attention and asked if there were any questions.

Dr Schwartz thanked Dr Ehrlich for his report. He felt that all delegates would agree that the Round Table had developed very well under his leadership despite the pandemic situation. He felt that perhaps he should rather say that Dr Ehrlich had made a virtue out of a necessity by taking advantage of video technology to hold online meetings between the usual annual meetings. On behalf of the Committee, he therefore

thanked Dr Ehrlich for his commitment and efforts since taking over the chair. He was sure that Dr Ehrlich would welcome any feedback on the activities of the Round Table, so he again asked if there were any questions. There being none, he invited delegates to consider the relevant draft resolution, which was read by Mr Dunmill and subsequently approved by online vote by the CIML:

### *Draft CIML Resolution 2021/*

#### *The Committee*

*Notes the report on the RLMO Round Table meeting given by its chairperson.*

*More information on the Regional Legal Metrology Organisations Round Table (RLMO RT) can be found under the Structure section on the OIML website:*

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OIML Organisation Internationale de Métrologie Légale International Organization of Legal Metrology

ABOUT PUBLICATIONS STRUCTURE OIML-CS NEWS & MEETINGS TC/SC/PG

You are here: Structure > RLMO Round Table

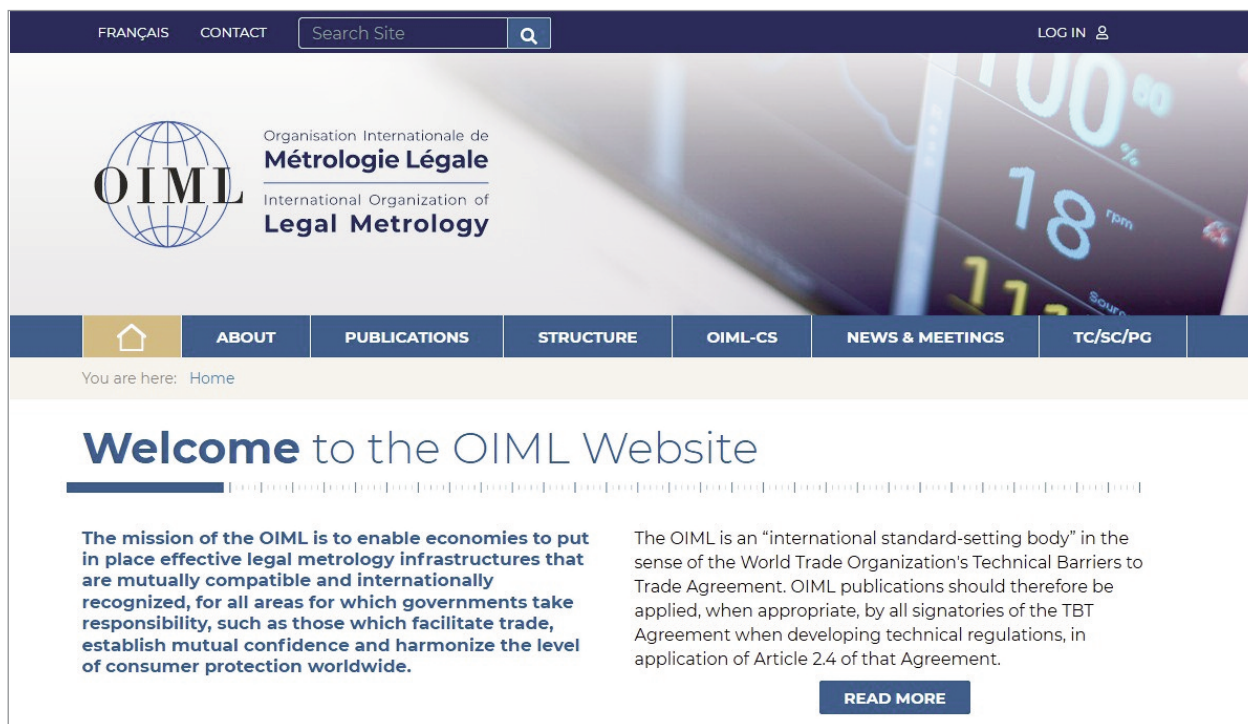
## RLMO Round Table

The RLMO Round Table is a network and a forum for information-sharing among the Regional Legal Metrology Organisations that liaise with the OIML.

This group is a source of advice and feedback for the OIML to initiate actions that are of interest for all the parties involved. It has been meeting annually since 2007, usually in conjunction with the CIML meeting. The RLMO RT is currently chaired by the CIML First Vice-President, Dr Charles Ehrlich.

The RLMO Round Table has representatives from the following organisations:

|                                                                                     |                                                                               |                                                                                      |                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------|
|  | <b>AFRIMETS</b><br>Intra-Africa Metrology System                              |  | <b>GULFMET</b><br>Gulf Association for Metrology         |
|  | <b>APLMF</b><br>Asia-Pacific Legal Metrology Forum                            |  | <b>SIM</b><br>The Inter-American Metrology System        |
|  | <b>COOMET</b><br>Euro-Asian Cooperation of National Metrological Institutions |  | <b>WELMEC</b><br>European Cooperation in Legal Metrology |



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**OIML**  
Organisation Internationale de  
**Métrologie Légale**  
International Organization of  
**Legal Metrology**

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You are here: Home

## Welcome to the OIML Website

**The mission of the OIML is to enable economies to put in place effective legal metrology infrastructures that are mutually compatible and internationally recognized, for all areas for which governments take responsibility, such as those which facilitate trade, establish mutual confidence and harmonize the level of consumer protection worldwide.**

The OIML is an “international standard-setting body” in the sense of the World Trade Organization’s Technical Barriers to Trade Agreement. OIML publications should therefore be applied, when appropriate, by all signatories of the TBT Agreement when developing technical regulations, in application of Article 2.4 of that Agreement.

[READ MORE](#)

## New look for the OIML website!

Dear Readers of the OIML Bulletin,

As you are no doubt aware, a significant number of developments have been made to the OIML website since the last major overhaul in 2012/2013 in order to benefit our Members and stakeholders, and to facilitate and accelerate the Organisation’s technical and certification work.

To build on these developments, and to further improve the user experience and ensure our website is in line with modern techniques and customs, we are very pleased to inform you that the OIML website has a totally new, refreshed look and feel since Sunday, 9 January 2022.

The key changes we have made are:

- new look and feel, improved readability, and more clarity;
- improvement of the general menu and breadcrumb navigation elements;
- improved system messages for login/password retrieval;

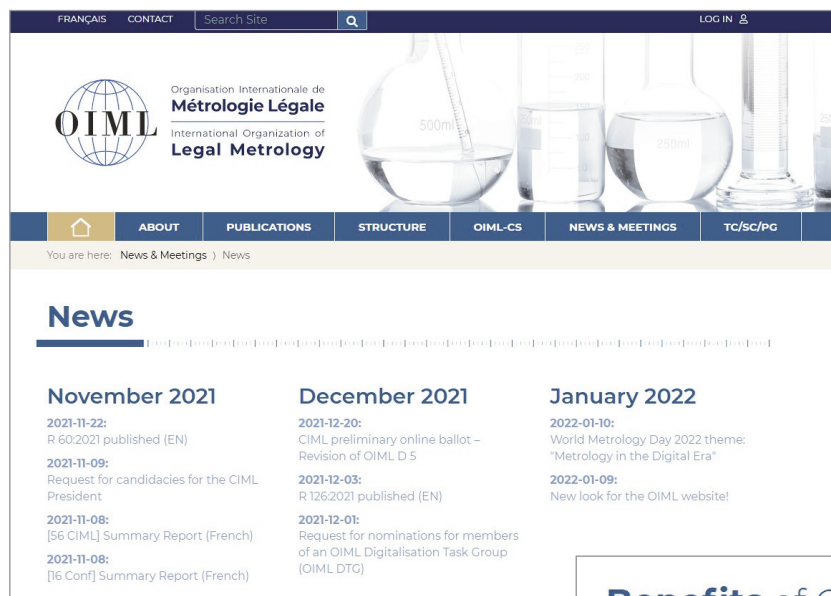
- “responsive” page structure, meaning that the website automatically adapts its layout to different screen sizes right down to mobile phone size;
- transfer of the “My access” section to the top of the screen;
- complete restructuring of the OIML-CS section;
- introduction of new coding techniques for certain most-visited pages (such as the lists of publications and the certificates/OIML Issuing Authorities search tools) in order to reduce the response time and improve the search facility; and
- update of numerous “behind-the-scenes” components of the website (such as the platforms it resides on and the plugins it uses) to provide faster response times and enhanced security, critical in this day and age.

All of this has been achieved without breaking any links you may have bookmarked.

We hope you enjoy the “new” site.

Best wishes for the New Year from the Team at the BIML.





[www.oiml.org](http://www.oiml.org)

*Enjoy the  
new look!*

*Improved navigation  
More readable  
Responsive  
Restructured  
Secure  
Upgraded components*

## Benefits of OIML membership

→ Countries which participate in the OIML are able to influence the work of the Organization



Participating in OIML work allows Members to receive up-to-date information from other participants concerning new technologies, ways to assess the conformity of instruments, solutions found in other countries to answer specific problems, good practices in legal metrology, experience in the organization of legal metrology activities in different countries, etc.

This participation and the continuous exchange of information allows Members to establish direct communication with other countries' experts, to better know each other, and to develop mutual confidence.

Members may participate in the definition of priorities for the OIML's technical work, highlighting the specific needs of their country or region. This ensures that OIML publications are relevant to the needs of all of its Members, avoiding the development of requirements specifically addressing certain countries' needs

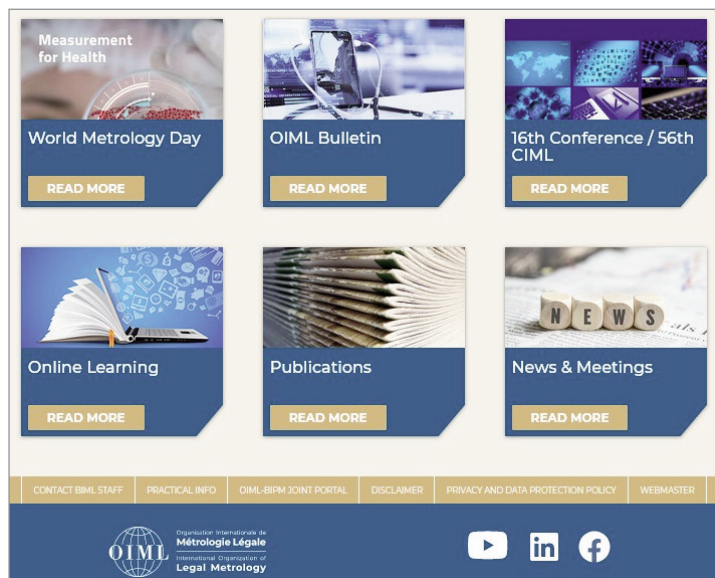
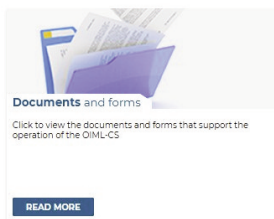
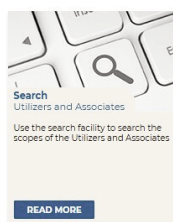
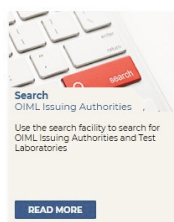
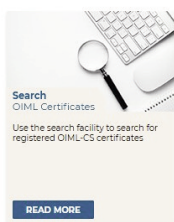
Members may influence the OIML's policy, and provide input to the OIML Strategy, so that their needs are taken into account in the Organization's work. The Strategy deals with the general policy of the Organization, as well as with the support the OIML offers to the national legal metrology authorities of all its Members, and specifically those in developing countries.

## Welcome to the OIML-CS homepage



The OIML Certification System (OIML-CS) is a system for issuing, registering and using OIML certificates and their associated OIML type evaluation/test reports for types of measuring instruments (including families of measuring instruments, modules, or families of modules), based on the requirements of OIML Recommendations.

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# OIML Certification System (OIML-CS)



## Introduction

The OIML-CS is a system for issuing, registering and using OIML Certificates and their associated OIML type evaluation reports for types of measuring instruments (including families of measuring instruments, modules, or families of modules), based on the requirements of OIML Recommendations.

The OIML-CS comprises two Schemes: Scheme A and Scheme B. Competence of the OIML Issuing Authorities and their Test Laboratories is demonstrated through self-declaration under Scheme B and accreditation or peer assessment under Scheme A.

The aim of the OIML-CS is to facilitate, accelerate and harmonize the work of national and regional bodies that are responsible for type evaluation and approval of measuring instruments subject to legal metrological control. In the same way, instrument manufacturers, who are required to obtain type approval in some countries in which they wish to sell their products, should benefit from the OIML-CS as it will provide evidence that their instrument type complies with the requirements of the relevant OIML Recommendation(s).

It is a voluntary system and OIML Member States and Corresponding Members are free to participate. Participating in the OIML-CS commits, in principle, the signatories to abide by the rules of the OIML-CS that are established in OIML B 18:2018 *Framework for the OIML Certification System (OIML-CS)*. Signatories voluntarily accept and utilize OIML type evaluation and test reports, when associated with an OIML Certificate issued by an OIML Issuing Authority, for type approval or recognition in their national or regional metrological controls.

The OIML-CS was launched on 1 January 2018 and has replaced the former OIML Basic Certificate System and the OIML Mutual Acceptance Arrangement (MAA).

Further information can be found at:

<https://www.oiml.org/en/oiml-cs>

For enquiries regarding the OIML-CS, please contact the OIML-CS Executive Secretary Paul Dixon ([executive.secretary@oiml.org](mailto:executive.secretary@oiml.org)).

## OIML certificates

OIML certificates issued under Scheme A and Scheme B can be downloaded from the database on the OIML website at [https://www.oiml.org/en/oiml-cs/certificat\\_view](https://www.oiml.org/en/oiml-cs/certificat_view).

The database also includes certificates issued under the former OIML Basic Certificate System and the MAA. Although these two systems are no longer in operation, the certificates remain valid.

## OIML Issuing Authorities, Utilizers and Associates

A summary of the approved OIML Issuing Authorities is published on the next page, followed by a summary of those Utilizers and Associates that have declared that they will accept OIML certificates and/or OIML type evaluation reports as the basis for a national or regional approval.

## OIML-CS Management Committee meeting

The Seventh OIML-CS Management Committee Meeting will be held as an online meeting on 22-23 March 2022.



# OIML Certification System (OIML-CS)

## List of OIML Issuing Authorities and their scopes

*The list of OIML Issuing Authorities is published in each issue of the OIML Bulletin and can be downloaded at [www.oiml.org/oiml-cs/oiml-issuing-authorities](http://www.oiml.org/oiml-cs/oiml-issuing-authorities)*

Updated: 2022-01-19

|     |                                                      | R 21:2007 | R 46:2012 | R 49:2006 | R 49:2013 | R 50:2014 | R 51:2006 | R 60:2000 | R 60:2017 | R 61:2004 | R 61:2017 | R 75:2002 | R 76:1992 | R 76:2006 | R 85:2008 | R 99:2008 | R 106:2011 | R 107:2007 | R 117:1995 | R 117:2007 | R 117:2019 | R 126:1998 | R 129:2000 | R 134:2006 | R 137:2012 | R 139:2014 | R 139:2018 |
|-----|------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| AU1 | National Measurement Institute Australia (NMIA)      |           |           |           |           | ■         |           |           |           |           |           |           | ■         | ■         |           |           |            |            |            |            |            |            |            |            |            |            |            |
| CH1 | Federal Institute of Metrology (METAS)               |           |           |           |           |           | ■         |           |           |           |           |           |           | ■         |           |           |            |            |            |            |            |            |            |            |            |            |            |
| CN2 | National Institute of Metrology, China (NIM)         |           |           |           |           |           | ■         | ■         | ■         | ■         | ■         |           | ■         | ■         |           |           |            |            |            |            |            |            |            |            |            |            |            |
| CZ1 | Czech Metrology Institute (CMI)                      |           |           |           | ■         |           | ■         |           |           |           | ■         |           |           | ■         |           |           |            |            |            | ■          | ■          |            |            |            |            | ■          |            |
| DE1 | Physikalisch-Technische Bundesanstalt (PTB)          |           |           |           |           |           | ■         | ■         | ■         | ■         |           | ■         |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
| DK2 | FORCE Certification A/S                              |           |           |           | ■         | ■         | ■         | ■         | ■         | ■         | ■         |           |           | ■         |           |           | ■          | ■          |            |            |            |            | ■          | ■          | ■          | ■          | ■          |
| FR2 | Laboratoire National de Métrologie et d'Essais (LNE) |           |           | ■         | ■         |           | ■         | ■         | ■         |           |           |           |           | ■         |           |           |            |            |            |            |            | ■          |            |            |            |            |            |
| GB1 | NMO                                                  |           |           |           | ■         |           | ■         | ■         | ■         |           |           |           | ■         | ■         |           |           |            |            |            | ■          | ■          |            |            |            |            |            |            |
| JP1 | NMIJ/AIST                                            |           |           |           |           |           | ■         | ■         | ■         |           |           |           | ■         | ■         |           |           |            |            | ■          | ■          | ■          |            |            |            |            |            |            |
| NL1 | NMi Certin B.V.                                      | ■         | ■         | ■         | ■         | ■         | ■         | ■         | ■         | ■         | ■         |           | ■         | ■         | ■         |           |            | ■          | ■          | ■          | ■          |            | ■          | ■          | ■          | ■          | ■          |
| SE1 | Research Institutes of Sweden (RISE)                 |           |           |           |           |           | ■         | ■         | ■         | ■         | ■         |           |           | ■         | ■         |           |            |            | ■          | ■          | ■          |            |            |            |            |            |            |
| SK1 | Slovak Legal Metrology (SLM)                         |           |           | ■         | ■         |           |           |           |           |           |           |           |           | ■         |           |           |            |            |            |            |            |            |            |            |            |            |            |

# OIML Certification System (OIML-CS)

## List of Utilizers, Associates and their scopes

*The list of Utilizer and Associate scopes is published in each issue of the OIML Bulletin  
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Updated: 2022-01-19

1 = Scheme A only  
2 = Scheme A and MAA  
3 = Scheme A and B  
4 = Scheme A, B and MAA  
5 = Scheme B only

|    |                                                                            | R 21:2007 | R 35:2007 | R 46:2012 | R 49:2006 | R 49:2013 | R 50:2014 | R 51:2006 | R 55:1998 | R 59:2016 | R 60:2000 | R 60:2017 | R 61:2004 | R 61:2017 | R 75:2002 | R 76:1992 | R 76:2006 | R 81:1998 | R 85:2008 | R 88:1998 | R 93:1999 | R 99:2008 | R 102:1992 | R 104:1993 | R 106:2011 |
|----|----------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| AU | National Measurement Institute, Australia (NMI)                            |           |           |           | 1         | 1         |           |           |           |           | 1         |           |           |           |           | 1         | 1         |           |           |           |           |           |            |            |            |
| BE | Federal Public Service Economy                                             | 3         |           | 3         |           | 3         | 3         | 3         |           |           | 1         |           | 3         |           | 3         |           | 1         |           | 3         |           |           | 3         |            |            | 3          |
| CA | Measurement Canada                                                         |           |           |           |           |           |           |           |           |           | 2         | 1         |           |           | 1         |           | 2         |           |           |           |           |           |            |            |            |
| CH | Federal Institute of Metrology (METAS)                                     |           |           | 1         | 2         | 2         | 1         | 1         |           |           | 2         |           | 1         |           |           | 1         | 2         |           |           |           |           |           |            |            | 1          |
| CN | State Administration for Market Regulation (SAMR)                          |           |           |           |           |           |           | 1         |           |           | 2         | 1         | 1         | 1         |           | 2         | 2         |           |           |           |           |           |            |            |            |
| CO | Superintendencia de Industria y Comercio (SIC)                             | 3         |           | 3         | 4         | 4         | 3         | 3         |           |           | 2         |           | 3         |           | 3         | 2         | 2         |           | 3         |           |           | 3         |            |            | 3          |
| CU | Oficina Nacional de Normalización (NC)                                     | 3         | 3         | 1         |           | 1         | 3         | 1         | 3         | 3         | 1         | 1         | 3         | 3         | 3         | 1         | 3         | 3         | 3         | 3         | 3         | 3         | 3          | 3          | 3          |
| CZ | Czech Metrology Institute (CMI)                                            |           |           |           |           | 1         |           | 1         |           |           |           |           |           | 1         |           |           | 1         |           |           |           |           |           |            |            |            |
| DE | Physikalisch-Technische Bundesanstalt (PTB)                                | 5         |           | 3         | 3         | 4         | 3         | 3         |           |           | 2         |           | 3         |           | 3         |           | 2         |           |           |           |           | 5         |            |            | 1          |
| DK | FORCE Certification A/S                                                    |           |           |           | 2         | 2         | 1         | 1         |           |           | 2         | 1         | 1         | 1         |           |           | 2         |           |           |           |           |           |            |            | 1          |
| FR | Laboratoire National de Métrologie et d'Essais (LNE)                       | 1         |           | 1         | 1         | 1         | 1         | 1         |           |           | 1         |           | 1         |           | 1         | 1         | 1         | 1         | 1         |           |           | 1         |            |            | 1          |
| GB | NMO Certification                                                          | 3         |           |           | 4         | 4         | 3         | 3         |           |           | 2         |           | 3         |           |           | 2         | 2         |           | 3         |           |           |           |            |            | 3          |
| IN | Legal Metrology Division, Department of Consumer Affairs                   | 3         |           | 3         |           | 4         | 3         | 3         |           |           | 2         |           | 3         |           | 3         |           | 2         |           | 3         |           |           |           |            |            | 1          |
| IR | Iran National Standards Organization (INSO)                                |           |           |           | 4         | 4         |           |           |           |           | 2         | 1         |           |           |           | 2         | 2         |           |           |           |           |           |            |            |            |
| JP | NMIJ/AIST                                                                  |           |           |           |           |           |           |           |           |           | 2         | 1         |           |           |           | 2         | 2         |           |           |           |           |           |            |            |            |
| KE | Weights and Measures Department                                            |           | 3         | 3         | 4         | 4         |           | 3         |           |           | 4         | 4         | 3         | 3         |           | 4         | 4         |           | 3         |           |           |           |            |            | 3          |
| KH | National Metrology Centre (NMC)                                            | 3         |           | 3         | 3         | 3         | 3         | 3         |           |           | 1         |           | 3         |           | 3         | 1         | 1         |           | 3         |           |           | 3         |            |            | 3          |
| KI | Ministry of Commerce, Industry and Cooperatives                            | 5         | 5         | 5         | 1         | 1         | 5         | 1         |           | 5         | 1         | 1         | 5         | 5         | 5         | 1         | 1         | 5         | 5         |           |           |           |            |            | 5          |
| KR | Korea Testing Certification (KTC)                                          |           |           |           |           |           |           |           |           |           |           |           |           |           |           | 2         | 2         |           |           |           |           |           |            |            |            |
| LV | LNMC Ltd. Metrology Bureau                                                 |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| NA | Namibian Standards Institution                                             |           |           | 3         | 4         | 4         | 3         | 3         |           |           | 2         |           | 3         |           |           | 2         | 2         |           | 3         |           |           |           |            |            | 3          |
| NL | NMI Certin B.V.                                                            | 3         |           | 3         | 3         | 4         | 3         | 3         |           |           | 2         | 1         | 3         | 3         | 3         | 1         | 2         |           | 3         |           |           | 3         |            |            | 3          |
| NZ | Trading Standards (Ministry of Business, Innovation and Employment) (MBIE) |           |           |           | 4         | 4         | 3         | 3         |           |           | 2         |           |           |           |           | 2         | 2         |           | 3         |           |           |           |            |            | 3          |
| RU | VNIIMS                                                                     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| RW | Rwanda Standards Board                                                     | 3         | 3         | 3         | 3         | 3         |           | 3         | 3         | 3         | 1         | 1         | 3         | 3         |           | 1         | 1         |           |           |           |           | 3         | 3          | 3          | 3          |
| SA | SASO (Saudi Standards, Metrology and Quality Organization)                 |           |           | 3         |           | 1         |           |           |           |           |           | 1         |           |           |           |           | 1         |           |           |           |           |           |            |            |            |
| SE | RISE Research Institutes of Sweden AB                                      |           |           |           |           |           |           | 3         |           |           | 2         | 1         | 3         |           |           |           | 2         |           | 3         |           |           |           |            |            |            |
| SK | Slovak Legal Metrology (SLM)                                               |           |           |           | 2         | 2         |           |           |           |           |           |           |           |           |           |           | 2         |           |           |           |           |           |            |            |            |
| TN | National Agency of Metrology (ANM)                                         | 3         |           | 3         | 2         | 2         | 3         | 3         |           |           | 2         |           | 3         |           |           |           | 2         |           | 3         |           |           | 3         |            |            | 3          |
| UG | Uganda National Bureau of Standards (UNBS)                                 |           |           | 3         | 1         | 3         |           |           |           |           | 1         | 1         |           |           |           | 1         | 1         |           |           |           |           |           |            |            |            |
| US | National Conference on Weights and Measures (NCWM)                         |           |           |           |           |           |           |           |           |           | 2         |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| ZA | NRCS: Legal Metrology                                                      |           |           |           | 3         | 3         |           | 3         |           |           | 1         |           |           |           |           | 1         | 1         |           | 3         |           |           |           |            |            | 3          |
| ZM | Zambia Metrology Agency                                                    | 3         |           | 3         | 3         | 3         | 3         | 3         |           |           | 1         |           | 3         |           | 3         | 1         | 1         |           | 3         |           |           | 3         |            |            | 3          |

# OIML Certification System (OIML-CS)

## List of Utilizers, Associates and their scopes (Cont'd)

The list of Utilizer and Associate scopes is published in each issue of the OIML Bulletin  
and can be downloaded at [www.oiml.org/oiml-cs/utilizers-and-associates](http://www.oiml.org/oiml-cs/utilizers-and-associates)

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1 = Scheme A only  
2 = Scheme A and MAA  
3 = Scheme A and B  
4 = Scheme A, B and MAA

|    |                                                                            | R 107:2007 | R 110:1994 | R 117:1995 | R 117:2007 | R 117:2019 | R 122:1996 | R 126:1998 | R 128:2000 | R 128:2000 | R 128:2020 | R 133:2002 | R 134:2006 | R 136:2004 | R 137:2012 | R 139:2014 | R 139:2018 | R 143:2009 | R 144:2013 | R 145:2015 | R 146:2016 | R 148:2020 | R 148:2020 | R 150:2020 |
|----|----------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| AU | National Measurement Institute, Australia (NMI)                            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| BE | Federal Public Service Economy                                             | 3          |            |            | 3          |            |            |            |            | 3          |            |            |            |            | 3          | 3          |            |            |            |            |            |            |            |            |
| CA | Measurement Canada                                                         |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| CH | Federal Institute of Metrology (METAS)                                     | 1          |            |            |            |            | 1          |            | 1          |            |            | 1          |            | 1          |            |            |            |            |            |            |            |            |            |            |
| CN | State Administration for Market Regulation (SAMR)                          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| CO | Superintendencia de Industria y Comercio (SIC)                             | 3          |            | 3          | 3          |            | 3          |            | 3          |            | 3          |            | 3          |            | 3          | 3          |            |            |            |            |            |            |            |            |
| CU | Oficina Nacional de Normalización (NC)                                     | 3          | 3          |            | 3          |            | 3          | 3          | 3          | 3          |            | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          |            |            |            |
| CZ | Czech Metrology Institute (CMI)                                            |            |            |            | 1          | 1          |            |            |            |            |            |            |            |            | 1          |            |            |            |            |            |            |            |            |            |
| DE | Physikalisch-Technische Bundesanstalt (PTB)                                | 3          |            |            | 3          | 1          |            |            |            | 3          |            |            | 1          | 5          | 3          |            |            |            |            |            |            |            |            |            |
| DK | FORCE Certification A/S                                                    | 1          |            |            | 1          | 1          |            |            |            | 1          | 1          |            | 3          |            | 1          | 1          | 1          |            |            |            |            |            |            |            |
| FR | Laboratoire National de Métrologie et d'Essais (LNE)                       | 1          |            |            | 1          |            | 1          |            | 1          |            |            | 1          |            | 1          | 1          | 1          |            |            |            |            |            |            |            |            |
| GB | NMO Certification                                                          | 3          |            | 3          | 3          |            |            |            |            | 3          |            |            | 3          |            |            |            |            |            |            |            |            |            |            |            |
| IN | Legal Metrology Division, Department of Consumer Affairs                   | 3          |            |            | 3          |            |            |            |            | 3          |            |            | 1          |            | 3          | 3          |            |            |            |            |            |            |            |            |
| IR | Iran National Standards Organization (INSO)                                |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| JP | NMIJ/AIST                                                                  |            |            | 1          | 1          | 1          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| KE | Weights and Measures Department                                            |            |            | 3          | 3          |            |            | 3          |            |            |            |            | 3          | 3          | 3          | 3          | 3          |            |            |            |            |            |            |            |
| KH | National Metrology Centre (NMC)                                            | 3          |            | 3          | 3          |            |            | 3          |            | 3          |            |            | 3          |            | 3          | 3          |            |            |            |            |            |            |            |            |
| KI | Ministry of Commerce, Industry and Cooperatives                            |            | 5          | 1          | 1          |            |            |            |            |            |            | 5          | 5          |            | 5          | 5          | 5          |            |            |            |            |            |            |            |
| KR | Korea Testing Certification (KTC)                                          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| LV | LNMC Ltd. Metrology Bureau                                                 |            |            |            |            |            |            | 3          |            |            |            |            | 3          |            |            |            |            |            |            |            |            |            |            |            |
| NA | Namibian Standards Institution                                             | 3          |            | 3          | 3          |            |            | 3          |            | 3          |            |            | 3          |            |            |            |            |            |            |            |            |            |            |            |
| NL | NMI Certin B.V.                                                            | 3          |            | 3          | 3          | 1          |            | 3          |            | 3          |            |            | 3          |            | 3          | 3          | 3          |            |            |            |            |            |            |            |
| NZ | Trading Standards (Ministry of Business, Innovation and Employment) (MBIE) | 3          |            | 3          | 3          |            |            |            |            | 3          |            |            | 3          |            |            |            |            |            |            |            |            |            |            |            |
| RU | VNIIMS                                                                     |            |            |            | 3          | 3          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| RW | Rwanda Standards Board                                                     |            | 3          | 3          | 3          |            | 3          | 3          |            | 3          |            | 3          | 3          |            | 3          |            |            | 3          | 3          |            | 3          |            |            |            |
| SA | SASO (Saudi Standards, Metrology and Quality Organization)                 |            |            |            |            | 3          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| SE | RISE Research Institutes of Sweden AB                                      |            |            | 3          | 3          |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| SK | Slovak Legal Metrology (SLM)                                               |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| TN | National Agency of Metrology (ANM)                                         | 3          |            | 3          | 3          |            |            | 3          |            | 3          |            |            | 3          |            | 3          | 3          |            |            |            |            |            |            |            |            |
| UG | Uganda National Bureau of Standards                                        |            |            | 1          | 1          | 1          |            |            |            |            |            |            | 3          |            | 3          |            |            |            |            |            |            |            |            |            |
| US | National Conference on Weights and Measures (NCWM)                         |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| ZA | NRCS: Legal Metrology                                                      | 3          |            | 3          | 3          |            |            | 3          |            | 3          |            |            | 3          |            | 3          | 3          |            |            |            |            |            |            |            |            |
| ZM | Zambia Metrology Agency                                                    | 3          |            | 3          | 3          |            |            | 3          |            | 3          |            |            | 3          |            | 3          | 3          |            |            |            |            |            |            |            |            |

## Promotion of the OIML Bulletin: Become a Mentor



### The OIML Bulletin is one, if not the only, international publication dedicated to legal metrology topics.

In accordance with CIML Resolutions 2019/30 and 2020/21, there is a clear desire for the Bulletin to be an attractive publication for legal metrology worldwide, and for it to be an excellent advertisement for our Organisation.

This can be achieved through long-term planning of the future editions and identification of key topics of high interest, for instance, legal control of measuring instruments in the fields of energy, health and the environment, where important aspects such as new technology, legal requirements, or test/verification procedures will be addressed.

In addition, support is sought from CIML Members and Corresponding Member Representatives who are ready to take on the responsibility of acting as “**Mentors**” for certain key topics / editions and technical articles. These are not necessarily expected to be written by the “**Mentors**” themselves, but by experts that a “**Mentor**” has identified and contacted.

In order to identify key topics of significant interest and “**Mentors**” to lead them, it was proposed by the CIML President that the BIML prepares, and makes publicly available on the OIML website, a plan for the upcoming eight to ten editions of the Bulletin.

The table on the following page is intended to be “dynamic”, i.e. proposed key topics may be moved to other editions depending on available “**Mentors**” and authors for technical articles. The table can also be found at [www.oiml.org/en/publications/bulletin/future-editions](http://www.oiml.org/en/publications/bulletin/future-editions).

All CIML Members and Corresponding Member Representatives are encouraged to support the OIML Bulletin, to share their legal metrology experiences with the legal metrology community worldwide, and to take responsibility either as a “**Mentor**” for one of the next editions of the Bulletin, or by promoting it at TC/SC/Project Group meetings, RLMO meetings, CEEMS AG meetings, and other opportunities.

CIML Members and Corresponding Member Representatives who would like to be a “**Mentor**” for a specific edition / key topic, or who would like to suggest that a new key topic be added to the list, are asked to contact the BIML ([chris.pulham@oiml.org](mailto:chris.pulham@oiml.org)).



| <b>Edition</b>  | <b>General key topic</b>                                 | <b>Mentor</b>   | <b>Article submission #1</b>                                | <b>Article submission #2</b>                                      | <b>Article submission #3</b>                      | <b>Other</b>                                 |
|-----------------|----------------------------------------------------------|-----------------|-------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|
| January 2022    | 16th Conference / 56th CIML Meeting                      | BIML            | Summary reports, photos, awards                             | RLMO RT account (30 Sept 2021 meeting)                            |                                                   | New website                                  |
| April 2022      | Measurement related to traffic                           | PTB and METAS   | DE / AT / CH: Measurement comparisons on road vehicle speed | Evidential breath analysers - Background and application of R 126 | Autonomous Driving - Overview and challenges      | E-vehicle charging                           |
| July 2022       | Metrology for a sustainable environment / climate change | METAS           | Soot particle measurement – PTB/METAS joint article         | Particulate matter – PR China                                     | Circular economy - METAS                          | Smart metering                               |
| October 2022    | Training of inspectors / verification officers           | CEEMS AG Chair? | E-Learning material already available                       | Revised OIML D 14                                                 | DAM                                               | Summary of CEEMS AG achievements and outlook |
| Future editions | National / Regional Metrology Systems                    |                 |                                                             |                                                                   |                                                   |                                              |
|                 | Pre-packages / Statistical control                       | Some RLMOs?     | Theoretical principles / basics                             | Various systems in different regions                              | Report on OTE (July 2023) in Bad Reichenhall (DE) |                                              |
|                 | Intellectual property                                    |                 | Role of patents in legal metrology                          |                                                                   |                                                   |                                              |

2022-01-20



## i n f o

## ■ OIML meetings

**20 January 2022**

Interim RLMO Round Table meeting

**22-23 March 2022**

Seventh OIML-CS Management Committee Meeting

**October 2022**

57th CIML Meeting

[www.oiml.org](http://www.oiml.org)

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## ■ Committee Draft

Received by the BIML, 2021.10 – 2022.01

Update of OIML V 1:2013: International vocabulary of terms  
in legal metrology (VIML)

1 CD

TC 1/p4

PL

2022-01-17

[www.worldmetrologyday.org](http://www.worldmetrologyday.org)

World Metrology Day Website

**2022 Theme: Metrology in the Digital Era****Bulletin online****Download the OIML Bulletin  
free of charge**[www.oiml.org/en/publications/bulletin](http://www.oiml.org/en/publications/bulletin)



## OIML BULLETIN

VOLUME LXIII • NUMBER 1  
JANUARY 2022

Quarterly Journal

Organisation Internationale de Métrologie Légale



16th International Conference  
and 56th OIML Meeting

# Call for papers

OIML Members

RLMOs

Liaison Institutions

Manufacturers' Associations

Consumers' & Users' Groups, etc.



## OIML BULLETIN

VOLUME LXII • NUMBER 4  
OCTOBER 2021

Quarterly Journal

Organisation Internationale de Métrologie Légale



Legal metrology for health

- Technical articles on legal metrology related subjects
- Features on metrology in your country
- Accounts of Seminars, Meetings, Conferences
- Announcements of forthcoming events, etc.



## OIML BULLETIN

VOLUME LXII • NUMBER 3  
JULY 2021

Quarterly Journal

Organisation Internationale de Métrologie Légale



Digital transformation in legal metrology

The **OIML Bulletin** is a forum for the publication of technical papers and diverse articles addressing metrological advances in trade, health, the environment and safety - fields in which the credibility of measurement remains a challenging priority. The Editors of the Bulletin encourage the submission of articles covering topics such as national, regional and international activities in legal metrology and related fields, evaluation procedures, accreditation and certification, and measuring techniques and instrumentation. Authors are requested to submit:

- a titled, typed manuscript in Word or WordPerfect either on disk or (preferably) by e-mail;
- the paper originals of any relevant photos, illustrations, diagrams, etc.;
- a photograph of the author(s) suitable for publication together with full contact details: name, position, institution, address, telephone, fax and e-mail.

*Note: Electronic images should be minimum 150 dpi, preferably 300 dpi.*

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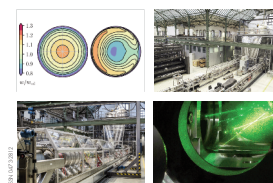


## OIML BULLETIN

VOLUME LXII • NUMBER 2  
APRIL 2021

Quarterly Journal

Organisation Internationale de Métrologie Légale



Heat and cooling meters in legal metrology