



16th Conference – Agenda Item 13

Report on the work of the OIML for the period 2017–2021

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52-CIML-AMD-08

2017-10-04

**Agenda item 10.1: Report by the BIML on
activities with organizations in liaison**



1 BIPM

Apart from the regular bi- and multi-lateral meetings held in March of each year, and regular meetings between the BIML and BIPM Directors, most of the OIML's concern with the work of the BIPM this year has been on the CCU in connection with the revision of the SI. More information on this item is provided under item 15.4 *Update on the revision of the Système International d'Unités (SI)*.

2 WTO TBT Committee

The BIML attends the regular meetings of the WTO Committee on Technical Barriers to Trade. At each meeting, there is the opportunity to make a short oral report on the OIML's activities which may be of interest to the Committee. During the last year, almost none of the controversial notifications under the TBT Agreement have been related to metrology. However, the Committee's discussions and considerations in connection with the triennial review of the Agreement are increasingly concerned with the overall national quality infrastructure and policy, in which metrology plays an extremely important part.

3 ISO and the IEC

3.1 ISO/DEVCO

The BIML attended the ISO DEVCO meeting this year in association with the ISO General Assembly. This was the first time for several years that this has been possible due to clashes with other events. Discussions were held with various ISO officials and members, and opportunities for further cooperation with these ISO bodies will be explored during the coming year.

3.2 ISO/CASCO

The BIML actively participates in the work of ISO/CASCO and attended the CASCO Plenary and meeting of CASCO STAR, the Strategic Alliance and Regulatory Group. The BIML is also represented in relevant ISO/CASCO Working Groups

ISO/CASCO WG 44 is responsible for the revision of ISO/IEC 17025 *General requirements for the competence of testing and calibration laboratories*. An FDIS has been issued for ballot with final publication expected in the Autumn. This standard is of particular relevance to the work of the OIML, especially for Test Laboratories under the OIML Certification System, and project TC 3/SC 5/p12 (revision of OIML D 30) will recommence once the revised standard has been published.

ISO/CASCO WG 46 is working on the development of a new standard ISO/IEC 17029 *General principles and requirements for bodies performing validation and verification activities*. This is of relevance to the activities of OIML TC 3/SC 1 and a WD2 has been issued to WG 46 for consideration at its next meeting in October 2017.

ISO/CASCO WG 49 is developing a revision of ISO/IEC 17000 *Conformity assessment — Vocabulary and general principles*. This standard is referenced in a number of OIML publications and is of particular relevance to OIML TC 1, OIML TC 3/SC 5 and the OIML-CS.



3.3 ISO/COPOLCO

There has been no contact with ISO/COPOLCO during the year. Following discussions held with ISO officials during the ISO GA, opportunities for more active cooperation in the future will be explored during the coming year.

3.4 IEC

No substantial liaison activities with the IEC have taken place in the past year.

The MoU between the OIML and the IEC is up for renewal and the BIML held a meeting with the IEC to discuss the review of the MoU with a view to having a revised MoU available for signing in 2018. This will also be a good occasion to draw up an updated list of liaisons between IEC and OIML technical committees.

4 ILAC and the IAF

The BIML actively participates in the work of ILAC and the IAF and attended the ILAC-IAF Joint General Assembly in November 2016 and the ILAC Accreditation Committee and ILAC Inspection Committee meetings in Spring 2017.

The MoU with ILAC and the IAF will be reviewed to identify changes that will be required to address the implementation of the OIML-CS.

Progress has been made with the following joint activities:

1. The revision of the joint OIML/ILAC publication *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories* (OIML D 10 / ILAC G 24). ILAC and OIML are collaborating on project OIML TC 4/p9: Revision of D10 *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories*, with ILAC providing a number of comments on the 2WD.
2. A revision of the existing Joint OIML-ILAC Assessment Procedure for the assessment of test laboratories (under the OIML MAA) has been developed to address the requirements of the OIML-CS. The draft revision has been discussed by the OIML-CS provisional Management Committee (prMC) and is currently being approved by ILAC.
3. A new activity with the IAF to develop a Joint OIML-IAF Assessment Procedure for the assessment of certification bodies under the OIML-CS. A draft has been discussed by the OIML-CS prMC and is scheduled to be approved by the IAF in late October 2017.

Note: When the separate Joint Assessment Procedures have been approved work will take place with ILAC and the IAF to develop a single Joint OIML-ILAC-IAF Assessment Procedure that will relate to both OIML Issuing Authorities and Test Laboratories.

4. The BIML is working with ILAC and IAF to identify suitable Quality Management System experts to act as lead assessors for peer assessments of OIML Issuing Authorities and Test Laboratories that will be performed under the OIML-CS.



5 Other liaisons

5.1 Codex Alimentarius

The BIML attended part of the Codex Alimentarius Commission's annual meeting this year, but little of their current technical work has direct relations with metrology. This situation, and their work program, will be kept under review.

5.2 UNIDO

The OIML and the BIPM have a joint MoU with UNIDO which enables them to cooperate on a number of initiatives, mainly in relation to the development of technical capacity.

There has been extensive cooperation with UNIDO this year in connection with their attempts to work with other international organizations to develop a common definition of the terms "quality infrastructure" and "quality policy".

This work is being conducted in association with DCMAS partners, and has involved participation in several UNIDO-organized Expert Group Meetings which aimed to develop a Quality Policy Guiding Principles Document. One of these EGMs was held back-to-back with the annual DCMAS meeting to maximize the opportunities of participation from all interested stakeholders in the field of quality infrastructure.

The BIML also participated, again with other DCMAS partners, in a regional "Training Program for Quality Infrastructure Development for Caribbean Countries" in conjunction with other CEEMS-related work in the region.

5.3 International Trade Centre (ITC)

There has been no work with the ITC this year other than their telephone participation in the annual DCMAS meeting.

5.4 DCMAS Network

The OIML has chaired this Network of international organizations working in the fields of metrology, accreditation, standardization, conformity assessment and infrastructure development since March 2016. Our mandate was extended by one year until 2017 to enable the completion of some work and to ensure a smooth handover to the next organization to take on the role, which rotates between members of the Network.

Achievements during the current OIML tenure have included:

- a complete overhaul of the DCMAS website;
- achieving consensus on a common definition of the terms "quality infrastructure" and "quality policy" to ensure a common approach is taken by Network members; and
- discussions on a change of the Network's name to reflect its current members' interests and activities in the field of quality infrastructure development.



The last point is still an ongoing issue which it is hoped will be resolved by the time the OIML relinquishes the DCMAS chair.

5.5 ACP EU TBT Programme

The OIML has worked with the Brussels-based ACP EU TBT Programme since the time of the CEEMS seminar held in conjunction with the 2015 CIML Meeting in Arcachon.

During the last year this cooperation has culminated in the completion of an e-learning platform aimed initially at the African and Caribbean regions, but open to anyone. This is now in operation and hosted on the OIML's servers. More information will be provided under item 7.1 *BIML activities in connection with CEEMS matters*.

5.6 WELMEC WG8

The BIML attended the WELMEC WG8 meeting, providing an update on OIML activities including the development and implementation of the OIML-CS.

5.7 European Commission (Working Group Measuring Instruments)

The BIML attended a meeting of the wgMI.

5.8 NoBoMet

The BIML attended the NoBoMet meeting, providing an update on OIML activities including the development and implementation of the OIML-CS.



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2018-09-11

Agenda item 9.2: Report by the BIML on activities with organizations in liaison

**Update of the Joint BIPM, OIML, ILAC, and ISO Declaration on
Metrological Traceability**



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2018-09-11

The International Bureau of Weights and Measures (BIPM), the International Organization of Legal Metrology (OIML), the International Laboratory Accreditation Cooperation (ILAC) and the International Organization for Standardization (ISO) are four international bodies responsible for metrology, accreditation and standardization worldwide.

Recognizing the importance of metrologically traceable measurement results, these Organizations developed a Joint BIPM-OIML-ILAC-ISO Declaration on metrological traceability:

<https://www.oiml.org/en/about/joint-declarations/pdf/Joint-BIPM-OIML-ILAC-ISO-Declaration-2011.pdf>

The Joint BIPM-OIML-ILAC-ISO Declaration on metrological traceability builds on the tripartite statement issued by the BIPM, the OIML and ILAC in 2006 on the relevance of various international agreements on metrology to trade, legislation and standardization. The Joint BIPM-OIML-ILAC-ISO Declaration was originally signed on 9 November 2011.

With the launch of the OIML-CS, the text relating to the OIML in the Joint BIPM-OIML-ILAC-ISO Declaration required an update. This was included in a wider review and update of the Joint BIPM-OIML-ILAC-ISO Declaration agreed by the four organizations in 2017.

The draft of the updated Joint BIPM-OIML-ILAC-ISO Declaration shown in Annex A has been agreed by the four organizations and will be signed later in the year.



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Annex A

DRAFT Joint BIPM-OIML-ILAC-ISO Declaration on metrological traceability



INTERNATIONAL
BUREAU OF
WEIGHTS AND
MEASURES



INTERNATIONAL
ORGANISATION OF
LEGAL
METROLOGY



INTERNATIONAL
LABORATORY
ACCREDITATION
COOPERATION



INTERNATIONAL
ORGANIZATION
FOR
STANDARDIZATION

JOINT

BIPM, OIML, ILAC, and ISO

DECLARATION ON
METROLOGICAL TRACEABILITY

*This document was originally signed on
9th November 2011, then*

*updated and reaffirmed
on **XX XXXXX 2018***

Director of the BIPM

BIML Director

ILAC Chair

ISO Secretary General



1. Background

The International Bureau of Weights and Measures (BIPM), the International Organization of Legal Metrology (OIML), the International Laboratory Accreditation Cooperation (ILAC) and the International Organization for Standardization (ISO) are four international bodies responsible for metrology, accreditation and standardization worldwide.

Recognizing the importance of metrologically traceable measurement results to the core missions of our Organizations, we have drawn up this declaration. We encourage our Members, as well as others for whom metrological traceability is important, to adopt the recommendations below. We also encourage other bodies to declare their support for the principles and practices embodied in this declaration wherever possible.

2. The importance of metrological traceability

We assert that international consistency and comparability of measurements are required if the missions of our Organizations are to be achieved. In particular, measurement comparability is an essential characteristic of an international system within which measurement results can be universally accepted. This international consistency and comparability can only be guaranteed if measurement results are metrologically traceable to internationally recognized references. In general, these references are those of the International System of Units (SI)¹. Where such traceability is not yet feasible, measurement results should be traceable to certified values of reference materials or results of reference measurement procedures, specified methods or consensus standards that are clearly described and accepted as providing measurement results fit for their intended use and ensured by suitable comparison, (for example, hardness scales, reference standards established by the World Health Organization, and measurement procedures accepted by the JCTLM²). The international standard *ISO/IEC 17025 'General requirements for the competence of testing and calibration laboratories'* details the expected requirements and provides further information on metrological traceability.

All four bodies collaborate, with other international stakeholders, in the Joint Committee for Guides in Metrology, (JCGM) responsible for developing common documents. Two JCGM documents key to this Declaration are:

- *Uncertainty in Measurement - Part 3 - Guide to the Expression of Uncertainty in Measurement (GUM) – JCGM 100, (and related OIML G 1-100 and ISO/IEC Guide 98-3)* promote a consistent and common approach to the evaluation of measurement uncertainty in a variety of metrological situations; and
- *"International vocabulary of metrology - Basic and general concepts and associated terms (VIM) – JCGM 200, (and related OIML V 2-200 and ISO/IEC Guide 99).*

¹ <https://www.bipm.org/en/measurement-units/>

² <https://www.bipm.org/en/worldwide-metrology/jctlm-cooperation/>

In particular, the VIM defines metrological traceability as:

“property of a measurement result whereby the result can be related to a reference through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty”.

Metrological traceability therefore embodies the concepts of measurement uncertainty and calibrations against a hierarchy of reference standards.

Metrological traceability is one of the elements that establishes international confidence in the worldwide equivalence of measurements. The framework described in this document enables legislators, regulators and exporters/importers to take advantage of an international set of mutually supportive systems, which demonstrate equivalence of measurements, thereby significantly reducing technical barriers to trade (TBTs), which might otherwise result from a lack of equivalence.

3. Recommendation

The BIPM, OIML, ILAC, and ISO endorse the following recommendations:

- In order to be able to rely on their international acceptability, calibrations should be performed
 - in National Metrology Institutes which should normally be signatories to the CIPM MRA³ and have CMCs⁴ published in the relevant areas of the KCDB⁵ or
 - in laboratories accredited to ISO/IEC 17025 by accreditation bodies that are signatories to the ILAC Arrangement⁶;
- measurement uncertainty should follow the principles established in the GUM⁹;
- the results of the measurements made in accredited laboratories should be traceable to the SI⁷;
- NMIs providing metrological traceability for accredited laboratories should normally be signatories to the CIPM MRA and have CMCs published in the relevant areas of the KCDB;
- within the OIML-CS⁸, accreditation should be provided by bodies which are signatories to the ILAC Arrangement and the above policies on metrological traceability to the SI should be followed.

The above principles should be used whenever there is a need to demonstrate metrological traceability for international acceptability.

³ <http://www.bipm.org/en/cipm-mra/>

⁴ Calibration and measurement capabilities

⁵ <http://kcdb.bipm.org/>

⁶ Signatories are listed on ILAC website – www.ilac.org

⁷ In the case that this is not possible, or not yet possible, to other internationally agreed references

⁸ [OIML Certification System](http://www.oiml.org)

⁹ <https://www.bipm.org/en/committees/ic/icgm/>



4. Use of this Declaration

These principles underpin a worldwide measurement system which provides a robust, internationally accepted framework within which users can have confidence in the validity and acceptability of measurement results. The parties strongly encourage legislators and regulators to refer to the CIPM Mutual Recognition Arrangement, the ILAC Mutual Recognition Arrangement, and the OIML Certification System and to accept measurement results made within them, thereby helping avoid technical barriers to trade. We also invite other interested parties to endorse these principles and to make use of them in their own work.

5. Parties involved

The establishment and application of this declaration requires the involvement of a number of parties:

The **International Bureau of Weights and Measures (BIPM)** has the mission of establishing worldwide uniformity of measurement and the General Conference on Weights and Measures (CGPM) has the authority of approving the definitions of the SI. The BIPM, under the responsibility of the International Committee for Weights and Measures (CIPM) publishes the "SI brochure", which is an essential reference document for the application and correct use of the SI units.

The **National Metrology Institutes (NMIs)** are tasked with the realization, maintenance, improvement and dissemination of the SI units via traceable calibration and measurement services based on their Calibration and Measurement Capabilities (CMCs).

The **International Committee for Weights and Measures (CIPM)**, recognizing the need to demonstrate, unambiguously, the equivalence of such national realizations of the SI units, and therefore of the calibration certificates issued by NMIs, drew up a Mutual Recognition Arrangement. This "CIPM MRA" provides a framework within which all participants validate and recognize the CMCs of other participants. These peer-reviewed CMCs are listed in the BIPM's key comparison data base (KCDB). To provide the technical basis for this listing, participating NMIs are required to take part in regular "key comparisons" of national measurement standards and have their CMC claims validated through the peer review process of the CIPM MRA. This process includes the approval of a reviewed quality system (accredited or self-declared), which conforms to appropriate internationally recognized standards, usually ISO/IEC 17025 for calibration and ISO 17034 for the production and certification of reference materials. The CIPM MRA is coordinated by the BIPM under the authority of the CIPM.

The **International Organisation of Legal Metrology (OIML)** promotes the global harmonization of legal metrology laws and procedures and provides its Members with guidance with respect to their national legislation, including that measurements used for trade and regulatory purposes should be made using standards legally traceable to the SI⁵. It has developed a world-wide technical infrastructure that provides its Members with metrological guidelines for the alignment of national requirements concerning the manufacture and use of regulated measuring instruments. This infrastructure supports the legal traceability of measurements used in regulated activities such as trade, health care, monitoring the environment, etc. OIML has also introduced an OIML Certification System (OIML-CS) within



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which a Declaration can be signed whereby signatories declare mutual confidence in the OIML type evaluation reports underpinning OIML Certificates issued on the basis of the requirements described in an OIML Recommendation. OIML Issuing Authorities and their associated test laboratories who issue OIML Certificates under Scheme A of the OIML-CS shall have their quality systems evaluated either by accreditation bodies or by peer assessment. The OIML-CS replaces two previous certificate systems; the OIML Basic Certificate System and the OIML Mutual Acceptance Arrangement (MAA).

The **International Laboratory Accreditation Cooperation (ILAC)** is the global association for the accreditation of laboratories, inspection bodies, proficiency testing providers and reference material producers, with a membership consisting of accreditation bodies and stakeholder organisations throughout the world. ILAC facilitates trade and supports regulators by operating a worldwide mutual recognition arrangement – the ILAC Arrangement - among Accreditation Bodies (ABs) that are subject to regular peer reviews. The signatory status of the ABs that are signatories to the ILAC Arrangement is available from www.ilac.org and the data, calibration and test results issued by accredited laboratories and inspection bodies are accepted globally via the ILAC Arrangement. Accredited laboratories and inspection bodies are required to comply with appropriate international standards including requirements for metrological traceability and measurement uncertainty.

The **International Organization for Standardization (ISO)**, ISO is an independent, non-governmental international organization with a membership of national standards bodies.

Through its members, it brings together experts to share knowledge and develop voluntary, consensus-based, market relevant International Standards that support innovation and provide solutions to global challenges.

ISO publishes a range of standards that apply to manufacture and testing of various products, and the provision of services. In many cases, calibration and testing form an integral part of the requirements of the standards. ISO harmonizes its terminology with the VIM and frequently incorporates measurement-related clauses in these standards. As ISO is responsible, together with the International Electrotechnical Commission, (IEC), for ISO/IEC 17025 it endorses the principle of traceable measurement to the SI. ISO works closely with the IEC, which has general responsibility for electrical standards, and the International Telecommunication Union (ITU), which has general responsibility for telecommunication standards. ISO, IEC and ITU work cooperatively through the World Standards Cooperation (WSC).



LIST OF ACRONYMS

ABs	Accreditation Bodies
BIPM	International Bureau of Weights and Measures
CABs	Conformity Assessment Bodies
CGPM	General Conference on Weights and Measures
CIPM	International Committee for Weights and Measures
CIPM MRA	CIPM Mutual recognition of national measurement standards and of calibration and measurement certificates issued by national metrology institutes
CMCs	Calibration and Measurement Capabilities
GUM	Evaluation of measurement data - Guide to the expression of uncertainty in measurement - published as: <ul style="list-style-type: none">- JCGM 100- OIML G1-100- ISO/IEC Guide 98-3
IEC	International Electrotechnical Commission
ILAC	International Laboratory Accreditation Cooperation
ISO	International Organization for Standardization
ITU	International Telecommunication Union
JCGM	Joint Committee for Guides in Metrology
JCTLM	Joint Committee for Traceability in Laboratory Medicine
KCDB	BIPM's key comparison database
OIML	International Organization of Legal Metrology
OIML MAA	OIML Mutual Acceptance Arrangement
OIML-CS	OIML Certification System
NMI	National Metrology Institute
SI	International System of Units
TBTs	Technical barriers to trade
VIM	International vocabulary of metrology – Basic and general concepts and associated terms – published as: <ul style="list-style-type: none">- JCGM 200,- OIML V 2-200- ISO/IEC Guide 99
WSC	World Standards Cooperation



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**Agenda item 7.1: Report by the BIML on
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1 International

1.1 BIPM

BIPM-OIML Bilateral Meeting

The BIPM and OIML held their bilateral meeting in March 2019. Topics discussed during the meeting included:

Mutual visits

It was agreed that mutual visits would continue between the two organisations. These exchanges aid cooperation and coordination on capacity building initiatives and other functions.

Representation at meetings / workshops

Where appropriate and feasible, joint representation at meetings should be made. It was acknowledged that this already occurs and that there are numerous examples of where collaboration and mutual representation at meetings and workshops already takes place.

e-Learning

This was identified as an important initiative for outreach to exemplify the added value that both organisations can provide to their members, prospective members and the community.

Technical cooperation

The two new representatives of the OIML to JCGM-WG1 and JCGM-WG2 were noted. The participants also discussed current and future collaboration between the two organisations concerning OIML TC 1, TC 1/p 3, the VIM and the VIML. The new representative from OIML TC 2 *Units of measurement* to the CCU was noted.

Revision of OIML D 1

The OIML, under the responsibility of the CEEMS Advisory Group – which includes representatives from the BIPM – will continue to develop the approach and methodology for the revision of OIML D 1 to ensure that it is fit-for-purpose in 21st century metrology systems, and that it is widely applicable and useful in different contexts.

Closer cooperation to promote “one metrology” as part of a national quality infrastructure

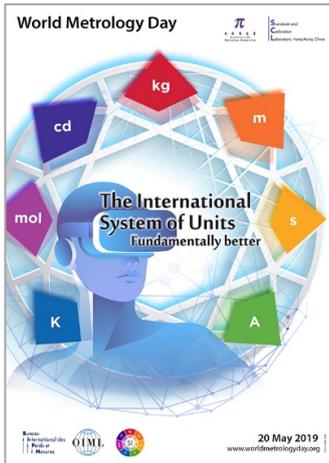
The preference is to build on initiatives proposed by the CIML President at the 2018 CGPM regarding a more coordinated “one metrology” platform. It was agreed that a Joint Operational Task Group will be established.

Quadrilateral Meeting

The BIPM, ILAC, ISO and OIML held their quadrilateral meeting in March 2019. The meeting included an update from each organisation and a specific paper produced by the OIML on the INetQI.

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Cooperation between the BIPM and the BIML on World Metrology Day (WMD)

The BIML has again this year worked in very close cooperation with the BIPM in organising World Metrology Day. The theme for 2019 was “The International System of Units – Fundamentally better” and marks the coming into force of the revised SI on 20 May 2019.

Cooperation between the two Organisations on this key project has again been excellent, as it is every year, and involves the complete process from reviewing the draft poster designs together, approving the final version, developing the strapline, designing the website, and uploading the various posters and events.

This year was a record year for hits to the WMD Website: there were 19 300 distinct visitors in May 2019, of which 9 000 were on 20 May itself. The BIPM and the BIML look forward to working together again on the 2020 event, on which work has already started.

1.2 IEC

The updated OIML-IEC MoU was signed at the 53rd CIML Meeting in Hamburg. Following a proposal from IECEx, the CIML also approved the establishment of a Joint Working Group (JWG) between the IECEx and the OIML to explore synergies and areas where the two organisations may be able to cooperate (see CIML Resolution 2018/13).

Two telephone meetings (in November 2019 and February 2019) took place between Paul Dixon and Chris Agius (IECEX Executive Secretary) to establish the JWG and to discuss initial ideas and proposals for areas of work for the JWG. Chris Agius joined the OIML-CS Management Committee (MC) meeting by video conference and provided information to the OIML-CS MC on the IECEx processes for establishing competence of certification bodies and test laboratories under the IECEx system.

The first full meeting of the JWG was held in Dubai, UAE, on 25 September 2019, with the OIML represented by Roman Schwartz (JWG Convener) and Paul Dixon. Key activities and outcomes from the first JWG meeting were as follows:

- Updating the Terms of Reference to include a reference to the OIML-IEC MoU as a framework for the activities of the JWG;

- Balancing the representation of the two organisations on the JWG, with a proposal for the OIML-CS MC Chairperson and a member of the Presidential Council to also represent the OIML;

- Paul Dixon and Chris Agius provided the JWG with an update on activities and future developments of the respective OIML and IECEx certification systems;

- Areas for collaboration were explored, with ideas for short-term and medium- to long-term opportunities discussed, e.g. procedures for the assessment and monitoring of certification bodies, processes for the acceptance of Manufacturer Test facilities and the possible use of the IECEx On-Line certificate system;



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Other areas to consider from an OIML perspective were highlighted, including intercomparisons/proficiency testing, monitoring of experts participating in accreditations and peer assessments, and the possible extension of the OIML-CS towards a full conformity assessment system;

JWG activities and outcomes to be fed into a higher level OIML-IEC Joint Work Program; and

An initial project to be established to consider mechanisms to assist manufactures requiring both IECEx and OIML-CS certifications, with an initial meeting to be held at the PTB in early 2020.

Paul Dixon attended the IECEx MC meeting on 26–27 September 2019. He provided an update on the OIML and a report to the IECEx MC on the outcomes of the first meeting of the JWG.

1.3 ILAC and the IAF

The updated OIML-ILAC-IAF MoU was signed at the 53rd CIML Meeting in Hamburg.

In support of the MoU, the BIML actively participates in the work of ILAC and the IAF. The BIML (Paul Dixon) attended the ILAC Accreditation Committee meeting in April 2019, and will represent the OIML at the Joint General Assembly in Frankfurt on 29 October 2019.

Attendance at the ILAC Accreditation Committee meeting provided an opportunity to give an update on OIML activities and supported a number of activities with ILAC as follows:

- Development of an OIML-ILAC Joint Work Program (currently with ILAC for review and comment).

- The revision of the joint OIML/ILAC publication *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories* (OIML D 10 / ILAC G 24). ILAC and the OIML are collaborating on project OIML TC 4/p 9: Revision of D 10 *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories*.

- Identification of suitable Management System Experts to act as lead assessors for peer assessments of Test Laboratories under the OIML-CS.

- Providing comments on revised versions of ILAC P9 (proficiency testing activities), P10 (metrological traceability of measurement results) and P14 (uncertainty in calibration).

- Providing input to the revision of ILAC G17 (uncertainty in testing) and G18 (scopes of accreditation).

Through the course of 2019, the BIML has been working with the IAF on the development of a Joint OIML-IAF Assessment Procedure for the assessment of certification bodies under the OIML-CS. A draft procedure, developed by the OIML-CS MC, was circulated to IAF members for a 60-day comment period in July 2019, and an updated version has been developed to address the comments received. The updated version will be discussed at the IAF Product Certification Working Group meeting in October 2019. Depending on the outcome of the discussion, the new version will undergo a further 60-day comment period or will be submitted to the IAF membership for approval. When the procedure is approved, the BIML will work with the IAF to identify suitable Management System Experts to act as lead assessors for peer assessments of OIML Issuing Authorities under the OIML-CS.



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1.4 International Network on Quality Infrastructure (INetQI)

The OIML handed over the chair of this Network of international organisations working in the fields of metrology, accreditation, standardisation, conformity assessment and infrastructure development to ILAC / ISO CASCO. New terms of reference were established at the Network's meeting in June 2019, and the next meeting will be held at the beginning of December. The OIML remains responsible for the INetQI website, which it has continued to develop during 2019.

1.5 ISO

ISO/DEVCO

In June 2019, the BIML (Ian Dunmill and Guo Su) met representatives of the secretariat of ISO/DEVCO to discuss opportunities for possible future cooperation. Options will continue to be explored in 2020.

The BIML also attended the ISO/DEVCO meeting in Cape Town in September 2019, held in association with the ISO General Assembly. In addition to the normal agenda items, discussions in breakout groups during this meeting considered the issues of

- future trends in conformity assessment,
- standards in support of SDG5 on gender equality, and
- enhancing participation in ISO technical work through twinning.

As usual, this meeting was also an opportunity to hold discussions with various ISO officials and members, as well as with representatives of other international organisations present.

ISO/CASCO

The BIML actively participates in the work of ISO/CASCO and participated in meetings of CASCO STAR, the Strategic Alliance and Regulatory Group. The BIML is also represented in relevant ISO/CASCO Working Groups:

ISO/CASCO WG 46 is working on the development of a new standard ISO/IEC 17029 *General principles and requirements for bodies performing validation and verification activities*.

ISO/CASCO WG 49 is developing a revision of ISO/IEC 17000 *Conformity assessment – Vocabulary and general principles*. This standard is referenced in a number of OIML publications and is of particular relevance to OIML TC 1, OIML TC 3/SC 5 and the OIML-CS.



Additional Meeting Document

54-CIML-AMD-7.1

2019-10-10

1.6 OECD

The BIML participated in the 6th meeting of the International Partnership on Regulatory Cooperation. The launch of the brochure *The contribution of international organisations to a rule-based international system: Key results from the partnership of international organisations for effective international rulemaking* at the meeting was a key milestone in facilitating a shared understanding and intelligence in the field of international organisations. The OIML features in the publication as an example of good international regulatory cooperation.

The OIML is one of 45 international organisations which participate in the Partnership, including many partner organisations and organisations with whom the OIML has an MoU.

1.7 UNECE

The BIML continues to participate in the work of UNECE WP.6 on regulatory cooperation, but was unable to attend its last annual meeting in November 2018 due to other commitments. The BIML will attend this year's meeting in November 2019.

In addition, in recent years the BIML has cooperated with the UNECE Economic Cooperation and Trade Division, in particular with its annual *Steering committee on trade capacity and standards* meetings. Amongst other matters, the May 2019 meeting dealt with a detailed analysis of Armenia's quality infrastructure. The BIML was successful in including membership of the OIML as one of the formal recommendations of the report. The BIML is continuing to work with the UNECE and the Armenian government on its metrology needs.

1.8 UNIDO

The OIML and the BIPM have a joint MoU with UNIDO which enables them to cooperate on a number of initiatives, mainly in relation to the development of technical capacity.

Ian Dunmill was invited by UNIDO to participate in the first International Quality Infrastructure (QI) Forum, organised in cooperation with the African Union Commission, and held in Brussels in April 2019. The Forum focused on QI's contribution to achieving the Sustainable Development Goals (SDGs) and to implementing the African Continental Free Trade Agreement. It also showed how the private sector can help in this by adopting sustainability standards, and identified priority interventions for developing QI systems.

The technical sessions focused on steering African regional QI development towards the SDGs. The Forum also helped to disseminate knowledge and good practice in an effort to remove trade barriers, improve SMEs' access to the QI, support investment in developing countries' QI, provide technical assistance and tools to enable developing countries to connect with global value chains and international markets, and promote sustainable development to achieve SDGs.



Additional Meeting Document

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In July 2019, Ian Dunmill was also invited by UNIDO to speak at a side event to the WTO Aid for Trade Global Review 2019 entitled *Adding Value: Quality Infrastructure for Sustainable Development*. The speakers explained how QI systems can contribute to strategies, policies and actions by developing countries to advance all 17 Sustainable Development Goals, and how they can better position developing economies to safeguard their people, create economic prosperity, and protect the planet. Ian Dunmill responded to a presentation on “Strengthening national metrology capacity to secure consumer protection” by the Malawi Bureau of Standards and showed how metrology, as part of a QI, affects everyone’s lives and can be used to protect consumers in trade, health and safety.

1.9 WTO TBT Committee

The BIML has attended all three meetings of the WTO Committee on Technical Barriers to Trade which have taken place since the last CIML Meeting, and has made a short oral report on the OIML’s activities which may be of interest to the Committee. As a result of an increased interest in quality infrastructure matters, the Ian Dunmill will, in cooperation with Andy Henson of the BIPM, be delivering a training session to WTO trade delegations on the vital role of scientific and legal metrology in the QI for facilitating trade, the typical challenges facing developing countries in this respect, and strategies for overcoming these challenges.

2 Regional

2.1 AFRIMETS

In addition to taking part in the annual AFRIMETS General Assembly, the BIML participated in an extraordinary AFRIMETS Directors’ and Executive Committee strategic planning meeting, as requested by the 2018 AFRIMETS General Assembly. This meeting was held in Johannesburg, South Africa in May 2019, and aimed to improve AFRIMETS’ strategic planning, with particular consideration of its sustainability and future funding needs and possibilities.

2.2 APLMF

In addition to participating in the 25th APLMF meeting and related events, a joint OIML-APLMF CEEMS event was held in Hangzhou in July 2019.



Additional Meeting Document

54-CIML-AMD-7.1

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2.3 Central Asian Metrology Workshop

The BIML participated in a Central Asian Metrology Workshop in June 2019 in Nur-Sultan, Kazakhstan which was organised and funded by the PTB.

The BIML delivered presentations and moderated forum discussions during four sessions, which took place over two days. The event was attended by approximately 20 delegates from Central Asian economies.

Priorities, proposals and project plans/agendas for action were defined, recorded and shared for each country present and these ideas were collated for future regional project activities.

2.4 MEDEA CABUREK Workshop

The OIML participated in the 2nd MEDEA CABUREK Workshop, held in April 2019 in Colombo, Sri Lanka. CABUREK (Capacity Building in Technical and Scientific Organisations Using Regional Experiences and Knowledge) is an instrument developed and implemented by the PTB in cooperation with NMI partners in Latin America and the Caribbean. The experiences and methodology were systematised and the CABUREK concept was developed. The following three topics are included in the CABUREK scheme:

- Metrology awareness program;

- Need analysis to implement a calibration / verification service;

- Market surveillance.

This project is being implemented from 2018–2020.

2.5 Pacific Islands Forum Secretariat

The BIML participated in the Pacific Regional Quality Infrastructure Initiative, an endeavour spearheaded by the Pacific Islands Forum Secretariat (PIFS) in September 2019. This initiative aims to strengthen national and regional institutions so as to support Pacific businesses in improving the quality of goods and services and in meeting international standards in trade.

The BIML delivered presentations and facilitated a breakout session on the role of metrology in Quality Infrastructure (QI).

The initiative is a partnership between the Pacific Islands Forum Secretariat, the CARICOM Regional Organisation for Standards and Quality (CROSQ), the German Institute for Metrology (PTB), the Australian Department for Foreign Affairs and Trade (DFAT), the Enhanced Integrated Framework (EIF) and the EU-funded Trade Com II facility.



Additional Meeting Document

54-CIML-AMD-7.1

2019-10-10

2.6 WELMEC WG8

The BIML (Paul Dixon) attended a meeting of WELMEC WG8 in September 2019. Of particular interest was the ongoing development of Normative Documents which are based on OIML Recommendations and which are used to demonstrate conformity with the Essential Requirements of the EU Measuring Instruments Directive (MID). It was agreed that the BIML would support the review of Normative Documents to ensure that they are based on the latest versions of the relevant OIML Recommendations. Attendance at the meeting also provided the opportunity to promote the OIML-CS as part of a wider presentation on OIML activities of interest to WELMEC.



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Item 11: International cooperation

**Item 11.2: Report by the BIML on
activities with organisations in liaison**



Addendum

55 CIML Addendum 11.2

2020-10-16

1 International

1.1 BIPM

An informal BIPM-OIML meeting was held at the BIPM on 4 February 2020, attended by the CIML President, Dr Roman Schwartz, the CIPM President, Dr Wynand Louw, the BIPM Director, Dr Martin Milton, Mr Andy Henson, BIPM, and the BIPM Director, Mr Anthony Donnellan. The following topics were discussed:

- Recapitulation of the OIML contribution to the CGPM 2018 Conference and proposals for a future closer cooperation;
- Resolutions/Decisions taken since the CGPM 2018;
- Composition / start of / first steps of the JTG;
- Integrated QI support concept;
- Consideration of a bilateral MoU between BIPM and OIML;
- Preparation of / agreement on a draft agenda for the next Bilateral meeting (planned for 18 March 2020, but cancelled due to the COVID-19 pandemic);
- Invitation of Dr Wynand Louw to participate in the 16th OIML Conference and the 55th CIML Meeting (planned for October 2020, in Suzhou, P.R. China, but postponed to 2021 due to the COVID-19 pandemic).

BIPM-OIML Bilateral Meeting

The formal BIPM-OIML bilateral meeting, due to be held in March 2020, was cancelled due to the pandemic.

Quadrilateral Meeting

The normal Quadrilateral BIPM / ILAC / ISO / OIML meeting, due to be held in March 2020, was also cancelled due to the pandemic.

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2020-10-16

Cooperation between the BIPM and the BIML on World Metrology Day (WMD)

The BIML has again this year worked in very close cooperation with the BIPM in organising World Metrology Day. The theme for 2020 was *Measurements for global trade*. This theme was chosen to create awareness of the important role measurement plays in facilitating fair global trade, ensuring products meet standards and regulations, and satisfying customer quality expectations.

Cooperation between the two Organisations on this key project has again been excellent, as it is every year, and involves the complete process from reviewing the draft poster designs together, approving the final version, developing the strapline, designing the website, and uploading the various posters and events.

This year was again highly successful, surpassing expectations especially in the disrupted environment caused by the COVID-19 pandemic. In 2020 there were:

- 37 posters submitted by National Institutes and other Organisations;
- 23 events published, mostly “virtual events”;
- Videos by the CIML and CIPM Presidents;
- Video of the BIML and BIPM Directors’ message;
- 5426 visitors to the website on 20 May 2020.

The poster was designed by AFRIMETS in 2020 and is available in English, French and many other languages, as provided by other countries.

1.2 IEC

As reported at the 54th CIML Meeting, the first full meeting of the Joint Working Group (JWG) between the IECEx and the OIML was held in Dubai, UAE, on 25 September 2019, with the OIML represented by Dr Roman Schwartz (JWG Convener) and Mr Paul Dixon.

To progress some of the actions arising from the JWG meeting, an ad-hoc working group meeting was held at the PTB in Braunschweig, Germany on 28 February 2020.

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1.3 ILAC and the IAF

The BIML (Mr Paul Dixon) attended the ILAC-IAF Joint General Assembly in Frankfurt on 29 October 2019, and gave a presentation on the OIML.

The ILAC-IAF mid-term meetings scheduled for April 2020 were cancelled due to the pandemic, and the annual meetings scheduled for October-November 2020 will now be held as online meetings. Despite the cancellation of the mid-term meetings, a number of activities have taken place as follows:

- The revision of the joint OIML/ILAC publication *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories* (OIML D 10 / ILAC G 24). ILAC and OIML are collaborating on project OIML TC 4/p 9: Revision of D 10 *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories*.
- Providing comments and input on revised versions of ILAC P10 (metrological traceability of measurement results) and G18 (scopes of accreditation).

Mr Paul Dixon worked with the IAF to develop a Joint IAF-OIML Assessment Procedure to support the accreditation assessments of OIML Issuing Authorities under the OIML-CS. The document was published by the OIML and IAF in January 2020.

1.4 International Network on Quality Infrastructure (INetQI)

Mr Ian Dunmill (BIML) took part in the annual meeting of the INetQI which was held in December 2019, as well as an online meeting which was held in July 2020. The next meeting is planned to be held online in November 2020. This Network of international organizations working in the fields of metrology, accreditation, standardisation, conformity assessment and infrastructure development is currently chaired by ILAC / ISO CASCO. The group is currently working on the establishment of a global library of QI-related publications, as well as on

- digitalization and new technologies,
- harmonization activities / policy-makers regulatory requirements, and
- cross border e-Commerce.

1.5 ISO*ISO/DEVCO*

Mr Ian Dunmill (BIML) participated in an ISO DEVCO online meeting which took place on 7 October, with a shorter agenda than usual. Observers had no chance to participate actively in the meeting.

ISO/CASCO

The ISO/CASCO 35th plenary meeting scheduled for May 2020 was postponed due to the pandemic. The plenary meeting will now be held as an online meeting in January 2021. The BIML will participate in the online meeting.

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1.6 OECD

Significant work continued with the Organisation for Economic Co-operation and Development (OECD) and the 50 other International Organisations (IO) forming the *OECD Partnership of International Organisations for Effective International Rulemaking (IO Partnership)*. This period has involved work on developing the draft of the Compendium of IO practices. The BIML has contributed to this work on behalf of the OIML through representation on three Working Groups.

The BIML has also contributed to a community of practice of IOs established by the OECD in response to issues arising from the COVID-19 pandemic. The function of the community is to share experiences on matters pertinent to IOs in response to the COVID-19 pandemic and international rule-making. Matters discussed include adapting decision-making procedures on rule-making and emergency ruling to exceptional circumstances, and the role of normative IOs in supporting their constituencies in managing crisis.

The BIML also participated in the *Virtual 7th Annual meeting of IOs* in September 2020 at which the heads of 19 IOs supported the “*Joint Statement of the IO Partnership*”.

1.7 UNECE

The BIML was unable to participate in the annual session of UNECE WP.6 on regulatory cooperation in November 2019.

The BIML continued to cooperate with the UNECE Economic Cooperation and Trade Division, although the work has been curtailed by the pandemic. The BIML attended an online meeting of the *Steering committee on trade capacity and standards* in June 2020, as well as being a panellist at an online meeting in September 2020 on *The impact of Covid-19 on trade and structural transformation in Georgia*.

1.8 UNESCO

The BIML presented to the *12th meeting of the International Basic Sciences Programme and Experts Forum: Harnessing cooperation for capacity building in science and the use of scientific knowledge* in November 2019. The presentation supported the joint OIML/BIPM proposal for a UNESCO World Metrology Day.

Following the presentation, a number of diplomatic missions and permanent representatives of countries that are members of UNESCO were engaged to seek additional support for the proposal.

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1.9 UNIDO

The OIML and the BIPM have a joint MoU with UNIDO which enables them to cooperate on a number of initiatives, mainly in relation to the development of technical capacity.

Mr Ian Dunmill (BIML) attended UNIDO Expert Group Meetings in December 2019 and January 2020 which worked on the development of a *Guide to Laboratory Policy Development*. Further discussions on this document have been conducted by email in 2020, and publication of the Guide is expected soon.

Mr Ian Dunmill also attended a UNIDO *Workshop on Standards and Quality Infrastructure for Innovation* in Kampong Thom, Cambodia in February 2020, where it also presented information on behalf of the BIPM. This was followed by a briefing session for senior government officials in Phnom Penh.

1.10 WTO TBT Committee

Mr Ian Dunmill (BIML) attended a meeting of the WTO Committee on Technical Barriers to Trade in November 2019, at which he made a short oral report on the OIML's activities which may be of interest to the Committee. Other meetings in 2020 have not taken place due to the pandemic, but there will be an online meeting of the TBT Committee at the end of October.

As part of the WTO's *TBT Advanced Short Course* in November 2019, Mr Ian Dunmill, together with Mr Andy Henson of the BIPM, also delivered a training session to WTO trade delegations on the vital role of scientific and legal metrology in Quality Infrastructure for facilitating trade, the typical challenges facing developing countries in this respect, and strategies for overcoming these challenges.

2 Regional

2.1 AFRIMETS

The AFRIMETS AGM, planned for July 2020, was cancelled due to the pandemic.

2.2 APLMF

The 26th APLMF meeting was held in Viet Nam in November 2019, and was attended by Mr Guo Su on behalf of the BIML. An online APLMF meeting is planned for December 2020 due to the pandemic situation.

2.3 APMP

The BIML participated in the *35th Asia Pacific Metrology Programme General Assembly and Related Meetings* in December 2019. A keynote lecture was given at the symposium on the topic of "Metrology for the Digital Economy: Improving Business Competitiveness".



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Agenda Item 15.2:

Reports on activities with organisations in liaison

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1 Regional liaisons

1.1 AFRIMETS

Mr Ian Dunmill provided an update on OIML activities at the AFRIMETS General Assembly, held online in July 2021. Discussions are continuing to explore means of engaging those AFRIMETS members which are not members of the OIML.

1.2 APLMF

At the 27th meeting (online) of the APLMF, Mr Anthony Donnellan gave a video presentation and comprehensive update on BIML and OIML activities including a review of important decisions made at the 55th CIML Meeting.

1.3 COOMET

Mr Anthony Donnellan gave a live (online) presentation at the 30th Anniversary of COOMET seminar “30 years to COOMET” entitled “COOMET and OIML: 30 years of cooperation and future opportunities” to celebrate the close collaboration between the two organisations. Additionally, the BIML participated in the COOMET Committee meeting in June 2021, at which Mr Ian Dunmill gave an update on OIML activities. The BIML also supported the IX International Competition “Best Young Metrologist of COOMET 2021” held in April 2021, by participating in the Scientific Committee.

1.4 EU Measuring Instruments Working Group (wgMI)

Mr Paul Dixon participated an online wgMI meeting on 20–21 April 2021 and provided an update on OIML activities.

1.5 GULFMET

Mr Paul Dixon participated in two GULFMET TC Legal meetings on 31 January 2021 and 6 June 2021. At the first meeting a detailed presentation regarding the OIML-CS was given, and at the second meeting an update on OIML activities was provided.

1.6 RLMO Round Table

Information on the RLMO Round Table will be provided under CIML agenda item 15.1.

1.7 SADCAS

Mr Paul Dixon was involved in the delivery of a SADCAS workshop (31 March 2021) on the activities of ISO/CASCO, ISO/IEC 17029 and the OIML-CS. The OIML-CS element of the workshop included an overview of OIML activities and a detailed description of the OIML-CS. The other elements of the workshop were delivered by the ISO/CASCO Chair.



1.8 SADCMEEL

Mr Ian Dunmill provided an update on OIML activities at the SADCMEEL meeting, hosted by Mozambique and held online in May 2021. This event was held as part of the week-long 36th annual meetings of the SADC TBT cooperation structures.

1.9 WELMEC WG8

Mr Paul Dixon participated in a WELMEC WG8 working group developing a Normative Document and corresponding table for material measures of length under the Measuring Instruments Directive based on OIML R 35 *Material measures of length for general use*.

Mr Paul Dixon participated an online WELMEC WG8 meeting on 8–9 January 2021 and provided an update on OIML activities.

2 Bilateral liaisons

2.1 BIPM

2.1.1 General

The OIML and the BIPM continue to develop even closer engagement on the executive, managerial, and operational levels. This engagement, collaboration and cooperation is also present in a number of traditional and new areas. For example, it includes joint committees, joint publications, joint statements, and collaborating and exploring areas of mutual interest such as the digital transformation of metrology and the role of metrology in the international quality infrastructure.

In 2021 this has been augmented with the establishment of the OIML-BIPM Joint Task Group (JTG). A detailed report on the activities of the JTG will be provided in CIML Addendum 4.3.

2.1.2 Annual BIPM-OIML partnership: World Metrology Day

The BIPM and the OIML have again worked collaboratively this year to prepare for World Metrology Day. The theme for 2021 is Measurement for Health. This theme was selected to create awareness of the important role that measurement plays in many aspects of our health and wellbeing.

In 2021 there were:

- 34 posters submitted by National Institutes and other Organisations;
- 35 events published, mostly online;
- Videos by the OIML and BIPM Presidents;
- Videos by the BIPM and OIML Directors;
- 6063 distinct visitors to the World Metrology Day website on 20 May 2021.

The 2021 poster was designed by SASO under the auspices of GULFMET and is available in English, French and many other languages, as provided by other countries.



The BIML participated in a number of online events in celebration of World Metrology Day. These included Mr Anthony Donnellan's participation (online) as a speaker and as a round-table expert in the World Metrology Day Forum hosted by the Minister for Commerce of the Kingdom of Saudi Arabia and the Saudi Standards, Metrology and Quality Organization (SASO) and Mr Ian Dunmill's online participation in events held in Iran and Gabon.

The OIML's social media channels were widely used to publicise the event in addition to the World Metrology Day website <https://www.worldmetrologyday.org>.

2.2 IEC

The Joint OIML-IECEX ad-hoc Working Group is developing a comparison document between the OIML-CS and the IECEX systems. The Working Group presented a first draft at the Sixth OIML-CS Management Committee Meeting. Further work is ongoing, with the intention of sharing the document with IECEX later this year.

Mr Paul Dixon held a videoconference meeting with Mr Chris Agius (IECEX Executive Secretary) to discuss the comparison document and the activities of the Joint OIML-IECEX Working Group.

2.3 ILAC and the IAF

Due to the pandemic, the ILAC-IAF 2020 annual meetings (October – November 2020) and the ILAC-IAF 2021 mid-term meetings (April – May 2021) were held online. The BIML (Mr Paul Dixon) participated in relevant meetings and provided updates, as appropriate, on OIML activities.

ILAC and the OIML are collaborating on the revision of the joint OIML/ILAC publication OIML D 10 / ILAC G 24 *Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories*. The OIML Project Group (TC 4/p 9) is currently voting on the 3CD revision of OIML D 10/ILAC G 24, with a deadline of 1 December 2021.

As ILAC is the international organisation for accreditation bodies operating in accordance with ISO/IEC 17011 and involved in the accreditation of inspection bodies (using ISO/IEC 17020), Mr Paul Dixon has consulted with ILAC on the proposal (see CIML agenda item 10.2) to allow OIML Issuing Authorities to use ISO/IEC 17020 (with additional requirements) as an alternative to ISO/IEC 17065 to demonstrate competence.

The ILAC-IAF 2021 annual meetings will again be held online and Mr Paul Dixon will participate in relevant meetings and provided updates on OIML activities, including the outcomes of the 56th CIML Meeting and 16th Conference.

2.4 ISO CASCO

The ISO/CASCO 35th plenary meeting was held as an online meeting on 28–29 January 2021. Mr Paul Dixon provided a written report on OIML activities and participated in the meeting.

In October 2021, Mr Paul Dixon will participate in an online dialogue session that is being held with ISO/CASCO and their A-Liaison organisations in order to provide information on the OIML's relationship with ISO/CASCO, our participation in ISO/CASCO work, and opportunities to support and improve our participation.

As mentioned above, the BIML and the ISO/CASCO Chair collaborated on the delivery of a SADCAS workshop.

2.5 OECD

Collaboration and cooperation with the Organisation for Economic Co-operation and Development (OECD) and the 50 other International Organisations (IO) forming the OECD Partnership of International Organisations for Effective International Rulemaking (IO Partnership) continues and evolves.

In 2021 the BIML contributed a significant number of best-practice examples to The Compendium of International Organisations' Practices (IO Compendium). The IO Compendium offers a single repository to find how IOs are striving to improve the quality and impact of their rulemaking, and offers a meaningful opportunity for IOs to reflect on the efficiency of their practices. It builds on the practical experiences of some 50 IOs, including the OIML, to compile key principles seeking to deliver international instruments that deliver better impact through enhanced quality and coherence, are more transparently prepared, and better meet the needs of IO members, stakeholders and citizens.

The IO Compendium was launched at the 8th Annual (online) meeting of IOs in September 2021 at which Mr Anthony Donnellan represented the OIML along with many other heads of IOs from around the world, and can be found at: <https://www.oecd.org/governance/better-international-rulemaking/compendium/>

2.6 UNIDO

The BIML contributed to UNIDO's development of a Quality Infrastructure for Sustainable Development (QI4SD) Index, which aims to measure how fit for purpose the QI system is to meet sustainable development needs. Mr Ian Dunmill took part in a meeting held in February 2021 to help in establishing some metrology indicators for the project, and there was a further validation workshop in September 2021, attended by Mr Anthony Donnellan and Mr Ian Dunmill.

Mr Ian Dunmill also participated in a UNIDO event "Global Launch of the Laboratory Policy publication". The OIML had been closely involved in the development of this guide, which can now be downloaded from UNIDO's website.

3 Multilateral liaisons

3.1 BIPM, ISO, ILAC, OIML Quad meeting

Additionally, the annual OIML-BIPM-ILAC-ISO Quadrilateral Meeting was held (online) in June 2021 with the BIML transitioning secretariat responsibilities for the meeting to the ISO. There were many topics discussed in the meeting, including updates on operational arrangements and how the organisations have adapted and continue to adapt in a pandemic-responsive operating environment, a joint statement concerning the digital transformation of metrology, accreditation, and standardisation as part of the quality infrastructure and future meeting arrangements and objectives.

3.2 Joint Committee on Guides in Metrology – JCGM

3.2.1 JCGM Working Group on the Expression of Uncertainty in Measurement (JCGM-WG1:GUM)

Due to the pandemic, the JCGM-WG1 meetings were held online. The OIML participated in all the relevant meetings and provided updates, as appropriate, on OIML activities.

The JCGM-WG1 has decided to broaden the scope of the GUM by producing a series of complementary documents to cover some topics of interest in more detail.

In this new perspective, JCGM100:2008 and the entire series of complementary documents are part of the GUM, which encompasses the whole suite of documents.

The OIML was represented by Dr Charles Ehrlich (US), Dr Hideyuki Tanaka (JP), and Mr Luis Mussio (BIML).

3.2.2 JCGM Working Group on the International Vocabulary of Metrology (JCGM-WG2:VIM)

In January 2021 the JCGM WG2 distributed a first Committee Draft of the fourth edition of the VIM to the eight JCGM Member Organizations for a six month consultation (for comments only, no vote).

The MOs provided over 1700 comments using the comment template provided. The BIML collated the comments received and at present WG2 is in the process of reading through, categorizing and prioritizing the comments. The process will take longer than originally anticipated, and a next phase of obtaining feedback from MOs is anticipated before fourth edition of the VIM can be finalized.

The OIML was represented by Dr Charles Ehrlich (US, Convener of JCGM WG2), Dr Jerzy Borzyminski (PL) and Dr Anna Chunovkina (RU).

3.2.3 INetQI

The OIML has continued to contribute to the activities of this global network through Mr Ian Dunmill's participation in two regular meetings in April and September 2021, as well as an ad hoc meeting in February 2021. The OIML also continues to host the INetQI website, and is currently exploring the possibilities of hosting an "INetQI Single Library", as well as helping with the update of the main website through a contractor financed by another INetQI member.

3.3 Consultative Committee for Units (CCU)

Dr Rado Lapuh (OIML representative in the CCU) participated in the 25th CCU meeting which took place (online) from 21–23 September 2021. The information provided below relates only to issues for which Dr Lapuh sought information from OIML TC 2 members. Other information is available from the official CCU meeting report.

1. Extension of the range of SI prefixes

There was a CCU consensus that an extension to the range of SI prefixes is now appropriate. Dr Lapuh voted to support this extension on behalf of the OIML (based on the position gathered by TC 2/p 0 in 2020).

2. Core Metrological Terms

No consensus was reached within the CCU, so the WG-CMT proposal will be forwarded to the CIPM with remaining individual proposal(s) for decision. Although there was a considerable input collected from TC 2/p 0, it was agreed with the CIML Presidency that Dr Lapuh would not supply a position since the OIML is already involved directly in JCGM-WG2. The OIML will therefore provide its formal position directly to JCGM-WG2.

3. Units for angles and dimensionless quantities

No conclusion was reached and a special CCU working group will be established to work on this issue. Dr Lapuh informed the CCU that there are no issues in legal metrology concerning the current units of angles and unit for frequency Hz.

4 Conferences, congresses and seminars

4.1 International Metrology Congress

The 20th International Metrology Congress, which took place in Lyon (France) in September 2021, saw Mr Anthony Donnellan collaborate with the Congress organisers, the Collège Français de Métrologie, to plan, organise and lead a round table on *The role of Metrology and quality infrastructure in the transition to Industry 4.0*.

A variety of experts represented their organisations on the round table, including representatives from the accreditation industry, a weighing industry association, private sector companies, international metrology and standardisation organisations, as well as international trade and economic development organisations.