



**October 2019**

**Annual Report by the CEEMS Advisory Group to the 54th CIML Meeting**

### **Introduction**

The work of the CEEMS Advisory Group (CEEMS AG) has continued to be organised through the Work Plan drawn up in accordance with Clause 6 of OIML Basic Publication B 19:2017 *Terms of Reference for the Advisory Group on matters concerning Countries and Economies with Emerging Metrology Systems (CEEMS)* as amended following the AG's meeting in 2018. As a "living document", the Work Plan is subject to revision during the year to take account of progress and the latest version is attached at Annex 1.

Work in the past year has been concentrated on the following seven main areas of activity:

- developing the CEEMS web pages on the OIML website, including publication of a database of experts available for consulting work;
- finalising the strategy for "OIML Training Centers" (OTC) and OIML Training Events (OTE);
- promoting OTC and other training events while the strategy is being finalised;
- developing a suite of e-Learning modules to support a variety of training needs;
- developing proposals for a scholarship programme for future leaders in CEEMS;
- working with Australia on a proposal for a pre-market surveillance pilot within APLMF to study Conformity to Type problems;
- supervising three projects to revise OIML International Documents D 1, D 14 and D 19.

### **CEEMS pages on the OIML website**

The CEEMS pages on the OIML website are now well established and contain a large amount of information. They are located under the STRUCTURE section of the website.

The *Introduction* gives a full description of the objectives and missions of the CEEMS AG.

Under *OIML Training Centers* the full event websites can be found for five key OTC events (Beijing, Guangzhou, Nanning, Havana and Hangzhou). The websites for the 2015 Chengdu and 2018 Hamburg Seminars are accessible under the Seminars section.

New for 2019, there is the *List of Experts*, which went live in February 2019. There are now 22 Experts in total.

*OIML CEEMS Award* winners are listed in the next section. From 2009 to 2017, this was previously called the "OIML Award for Excellent Achievements in Legal Metrology in Developing Countries".

Under *Training materials* there is an archive of all the training presentations and other material given in five of the OIML Pilot Training Centers (OPTC) held between 2016 and 2018.

Also new in 2019 are the results of the 2018 Survey on the needs of CEEMS (login required). As at December 2018, a total of 31 economies had replied including 19 OIML Member States, 10 Corresponding Members and two non-members.



Lastly, a comprehensive introductory text to the e-Learning Platform was added in 2019. Full details of the Platform are given, including its objectives, detailed content, audience and a description of the method used.

Being able to locate quickly the pages of most relevance to CEEMS is something which can be greatly assisted by having recognizable branding such as a logo. Such branding will also be useful in distinguishing training centres and events supported by the OIML under the terms of the new proposed OTC/OTE strategy. At the Advisory Group meeting in 2018, however, concerns were expressed that the designs submitted to that meeting were too similar to the OIML-CS logo and risked creating confusion. To meet these concerns, colleagues at the PTB in Germany prepared some further designs which were discussed at the Advisory Group's 2019 meeting and agreement has now been reached on an acceptable design, subject to confirmation that it can be reproduced effectively.

### **OIML Training Centres and OIML Training Events: Future strategy**

The Advisory Group agreed in Strasbourg that a long-term strategy for OIML Training Centres should be developed. A first draft prepared by China was circulated to AG members in 2018. During its 2018 meeting, the Advisory Group agreed that this provided a good basis, but felt that it would be useful to develop the draft so that it covered a wider range of models. An ad hoc project group was set up to do this under the convenorship of Dr. Peter Ulbig. The group was also asked to consider whether it should be recommended as a Basic Publication. A revised draft – proposed as a Basic Publication – has been agreed by the project group and following a Preliminary Ballot and has been put to the CIML for approval at its 54th meeting.

### **OIML Training Centers (OTC)**

An OIML Training Center, on the OIML-CS, was held from 15 to 17 July in Hangzhou, P.R. China. There were over 100 participants including 47 from overseas. In total, representatives from 27 economies attended.

In addition, a seminar on D 31 in Brazil is scheduled for later this year. Participants have been invited from across the SIM region, and participants from other regions are welcome to join.

Further OTCs/OTEs will now be organised within the framework of the new OTC and OTE strategy and several possibilities are under consideration.

### **E-learning modules**

The OIML website already contains e-Learning modules developed with the support of the ACP EU TBT Programme. Opportunities for improvement have been identified, but will require additional funding. In addition, the APLMF has offered resources to contribute their work on e-Learning modules as an online tool to the OIML. They have already finished a first module on NAWIs. They have asked if it is possible to develop a process under which TC/SC secretariats review relevant modules and this will be part of the actions following from the Bratislava Workshop (see below).

The e-Learning Workshop which took place on 21 October in Bratislava provided an excellent opportunity to bring together the various elements which have been examined during the year. The Workshop demonstrated that this topic is of great importance to a wide variety of audiences, particularly those in the worldwide legal metrology community. At its meeting the AG noted that this interest is by no means restricted to the CEEMS area. However, it is clear that e-Learning has a central role to play in making CEEMS training and capacity-building initiatives more effective and the AG agreed that this

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should be a key part of its Work Programme in the future. It is proposed to form one or more ad hoc groups to work with the BIML in:

- prioritising future modules;
- designing arrangements to ensure expert input from TCs in developing and maintaining high quality content;
- working in collaboration with other appropriate organisations;
- ensuring the platform and technology which OIML uses is fit for purpose; and
- examining appropriate funding mechanisms and sources.

#### **Pre-market surveillance pilot at a regional level to study conformity to type problems**

Australia raised this suggestion at the last AG meeting and has now developed a proposal for a two-stage project operating within the APLMF. The first stage is to conduct performance tests on a selected number and range of newly manufactured instruments (prior to retail sale) to assess the risk of non-conformance to type approval. This pilot study will quantify the needs and benefits of the second stage – a wider ongoing market surveillance program that may be part of economies introducing a Conformity to Type program.

Other countries in the region will be encouraged to participate to provide greater efficiencies to the program.

The AG has welcomed this initiative as an excellent example of innovative thinking within an RLMO framework.

#### **Scholarship programme for future leaders in CEEMS**

The various talents of legal metrology officials working in OIML Member States is one of the most important resources for achieving continuous development in worldwide legal metrology. The development of such talents in leaders of tomorrow, especially those from CEEMS, will provide the world of legal metrology with more innovation, vitality, and the momentum for sustainable development, which will allow OIML and its Member States to continue developing its long-term vision.

The AG Secretariat (Guo Su) presented a concept paper describing a possible scheme which to the AG meeting on 21 October. The AG has agreed that work should continue on this topic and that in particular Member States should be encouraged to act as hosts in pilot programmes which can offer proof of concept and form the basis of longer term arrangements.

#### **Advisory Group's role in developing OIML Recommendations and Documents**

Basic Publication B 19:2017 provides that one of the activities the Advisory Group may wish to undertake is “organizing the development of guidance and procedures that are based on OIML Recommendations and Documents, with the aim to assist with the implementation by CEEMS of OIML Recommendations and Procedures”. Following decisions taken in 2017 and 2018, there are now three Project Groups undertaking revisions of OIML International Documents under Advisory Group supervision:

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***Revision of OIML Document D 1:2012***

Following approval by the CIMAL in 2017, a Project Group (PG) was formed from AG Members with the Vice-Chair acting as convener. A first Working Draft was circulated in July 2018.

The view was subsequently taken that the revision should be more far-reaching than originally envisaged, which has involved a complete rewrite. A draft suitable for a first Committee Draft (1CD) was circulated to the PG in September 2019. It is hoped that the 1CD stage will commence in November and that a final draft will be available for CIMAL to approve at its 2020 meeting.

***Revision of OIML Document D 14:2004***

Changes in the proposed convenor have held up progress, but the new person, Dr. Cord Mueller (Germany), has now received convenor training and it is hoped that work can start soon.

***Revision of OIML Document D 19:1988***

Delays have been experienced in the forming of an appropriate PG, but sufficient P-Members have now volunteered and a first Working Draft was made available on the Workspace in October.

**CIMAL Resolution 2018/15**

At last year's CIMAL meeting the resolution on CEEMS matters adopted by the CIMAL at its meeting in Arcachon was replaced by Resolution 2018/15, which takes account of the progress made since 2015 and highlights the areas in which the OIML should be focusing its attention in the future. In previous years it has been the practice to provide the CIMAL with an analysis of the progress made on the various elements identified in Resolution 2015/10 and we have decided to continue this procedure for Resolution 2018/15. The analysis for the first year of the new resolution is attached at Annex 2. This is only the first year of what may be a four or five year programme of actions, and taking this into account a good start has been made in most areas.

**Future Leadership of the Advisory Group**

Following his retirement from active duties within the Chinese Administration, Mr Pu Changcheng has indicated that he will not be seeking a further term as Chair of the AG. The AG is therefore recommending to the CIMAL that the current Vice-Chair be appointed as his successor and, according to the provisions of B 19 nominates Dr Peter Ulbig for approval as the new Vice-Chair.

Recent discussions have suggested that it might be helpful if B 19 contained a formal procedure for identifying candidates in the leadership positions and if CIMAL agrees, the AG would propose to commence a revision of B 19 so that this procedure is included. The AG also feels that given the growing amount of activity it is now supervising it might be desirable for there to be provision for two Vice-Chairs and believes that a revision of B 19 on this point would also be desirable.

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**Pu Changcheng**  
Chairperson

**Peter Mason**  
Vice-Chairperson

CEEMS Advisory Group Work Plan 2019 (v3)		
		Responsibility
<b>Develop web pages focused on CEEMS issues on the OIML website which promote communication and information exchange</b>	<p>The CEEMS pages on the OIML website have been restructured and the content updated.</p> <p>The new structure includes dedicated OPTC sections/pages and provides a platform to make information available on both future events and training materials.</p> <p>The scope for developing the CEEMS section so that it can provide opportunities for interactions is being kept under review.</p> <p>The whole CEEMS section will continue to be developed incrementally.</p>	BIML (Chris Pulham)
<b>e-Learning modules</b>	<p>ACP EU TBT Programme platform is already on the OIML website. Further work is planned to correct some errors which have been identified and – if funding can be found – to integrate the French and Spanish translations which have been completed.</p> <p>Following the e-Learning workshop in Bratislava AG, will now work with BIML on a major programme of activities, including prioritising future modules, designing arrangements to ensuring expert input from TCs in developing and maintaining high quality content, working in collaboration with other appropriate organisations, ensuring the platform and technology which OIML uses is fit for purpose and examining appropriate funding mechanisms and sources.</p>	Ian, Su, Chris
<b>Further surveys of the needs of developing countries</b>	<p>Results of 2018 survey submitted to October 2018 AG meeting and placed on public CEEMS pages.</p> <p>Next survey expected to be launched in 2021.</p>	Secretariat (Guo Su)
<b>Database of experts available for consulting work</b>	Revised disclaimer agreed by OIML lawyer. Database published on the OIML website.	Vice Chair, BIML (Chris Pulham)
<b>Consider possible logo/branding for the OIML's CEEMS work</b>	<p>Initial designs circulated in September 2018. Ad Hoc group on OTC Framework asked to progress this work.</p> <p>2019 AG meeting has now approved a design, subject to confirmation of its reproducibility.</p>	Ad hoc project group, - convenor P Ulbig.
<b>Project to revise D 1</b>	<p>Project was approved by CIML in Strasbourg and a Project Group was formed from AG Members with Vice-Chair acting as convener. A first Working Draft was circulated in July 2018.</p> <p>View was subsequently taken that the revision should be more far-reaching than originally envisaged, which has involved a complete rewrite. Draft suitable for 1CD circulated to the Project Group in September 2019. Aiming for FDD approval at 202 CIML</p>	Vice Chair

<b>Project to revise D14</b>	Changes in the proposed convener have held up progress, but the new convener has been identified and trained, and it is hoped work can start later in 2019.	
<b>Project to revise D19</b>	Project group now formed and Working Draft e circulated in October 2019	
<b>Strategy for “OIML Training Centers” and similar training initiatives</b>	<p>AG agreed in Strasbourg that a strategy should be developed for adoption in Hamburg.</p> <p>Secretariat produced a paper for discussion at October 2018 meeting. AG agreed this provided a good basis but felt that it would be useful to develop the draft so that it covered a wider range of models.</p> <p>Ad-hoc project group set up to do this and to consider whether it should be a Basic Publication.</p> <p>Revised draft – proposed as a Basic Publication – has been agreed by the project group and passed POB and has been put to the CIML for approval at its 54th meeting.</p>	Ad hoc project group, convener Peter Ulbig
<b>Possible scholarships programme for future leaders in CEEMS</b>	A concept note by the Secretariat discussed at the AG meeting in October 2019. AG agreed work should continue on this topic and Member States should be encouraged to act as hosts in pilot programmes which can offer proof of concept and form the basis of longer term arrangements	GUO Su
<b>Evaluations of the “OIML Training Centers” and other OIML initiatives</b>	<p>Work Plan approved in October 2017 indicated that AG Secretariat will prepare evaluations of OPTCs held so far after the planned OPTC training on pre-packaged goods.</p> <p>Evaluation results presented to AG meeting in October 2018.</p>	Ian Dunmill
<b>Organise further workshops</b>	<p>Workshop on World Bank/PTB Toolkit held in Hamburg.</p> <p>e-Learning workshop organised during the 54th CIML meeting.</p> <p>.</p>	All
<b>Further Planned OPTCs</b>	OTC on OIML-CS held in China (Hangzhou) in July. Seminar on D 31 in Brazil scheduled for October 2019. Further OTCs/OTEs will be organised within the framework of the new OTC strategy.	
<b>Proposal to carry out a market surveillance pilot at a regional level to study Conformity to Type problems</b>	<p>Australia has proposed a two-stage project. The first stage is to conduct performance tests on a selected number and range of newly manufactured instruments to assess the risk of non-conformance. This pilot study will quantify the needs and benefits of the second stage – an on-going Conformity to Type program.</p> <p>Other countries in the region will be encouraged to participate to provide greater efficiencies to the program.</p> <p>2019 AG meeting was supportive but noted that this was a matter to APLMF to decide.</p>	Bill Loizides

<b>Prepare annual reports to CIML on the AG's activities</b>	AG Chair, Vice Chair and Secretariat have prepared report for CIML meeting October, 2019.	Vice-Chair
<b>Prepare report for CIML on progress on the work package contained in Resolution 2018/15</b>	<b>This will now be a Standing Item.</b> Report annexed to the AG's Annual Report.	Vice Chair
<b>Develop guidance and procedures based on the OIML Recommendations and Documents</b>	D 1, D 14, D 19 revisions already proceeding under AG supervision.  Proposal for an R 87 template submitted to 54th CIML as a direct result of recent CEEMS workshops.  e-Learning initiative also relevant. Workshop in Bratislava confirmed that this should be a major area of focus for AG in the future.	All
<b>Seek opportunities to collaborate with the RLMOs and RMOs on projects of common interest</b>	D 1 revision and the collaboration with APLMF and APMP on the Joint Guide 1 based on D 1 already identified.  OTC on OIML-CS (China) involved APLMF co-operation.  Ideas on promoting use of the World Bank/PTB Quality Infrastructure Toolkit continue to be investigated.  AG and RLMO RT in October 2019 will be asked to identify further opportunities to collaborate.	AC Chair, AG Vice-Chair, RLMO RT Chair

Assessment of CIML Resolution 2018/15							
Responsibilities	Resolutions	Progress 2018-2019	Need grade? Y/N	Grade A-E A: very good B: good C: normal D: poor E: very poor	Finishd? A: finished B: on-going C: not started	Remarks	
BIML	1 BIML to promote and participate in capacity building activities through the programme of OIML Training Centers	2 events held/planned for 2019; new strategy prepared for adoption by CIML	Y	A	B		
	2 BIML to promote and participate in capacity building activities through training courses and regional activities organized by other organizations	1. Ongoing discussions with New Zealand and the APLMF concerning additional e-Learning modules to be considered. 2. Corrections identified for existing EN and FR e-Learning following Spanish translation. 3. Landing page developed and homepage modified for e-Learning module to make it more prominent 4. Workshop on the future of OIML e-Learning 5. Training on Type Approval in ASEAN planned for 2020 6. Director participated in the Q1 workshop for Pacific Islands in Fiji	Y	B	B		
	3 Bureau to continue to work with the constituent bodies of INetQI, in particular the BIPM, to identify new initiatives where the OIML can make a direct contribution.	1. Maintaining operational activities with the BIPM by working on main projects such as World Metrology Day, AFRIMETS, INetQI, CCU. 2. The OIML continues to be responsible for maintaining the INetQI website. Clone site made, structure and logo changes made, content being updated by the end of 2019-09/10. 3. BIML attended INETQI annual meeting in Geneva. 4. BIPM involved in D 1 Revision; other INetQI members will be consulted 5. BIPM/CIPM: Joint task group with the BIPM with the aim to explore opportunities for closer cooperation towards the development of a common vision and a common concept to promote metrology (scientific, industrial and legal metrology) as an important element of the quality infrastructure of a country. Examples: joint preparation for World Metrology Day (WMD) each year; close work with other IGOs in order to further enhance awareness of metrology on an international level; OIML's representation on the Consultative Committee for Units (CCU); participation in JCGM WG1 which is developing the "GUM New Perspective", and WG2, which is working on the fourth edition of the VIM. 6. ISO: proposal to review and update the MoU 7. ILAC/IAF: revised MoU was signed at the CIML meeting in 2018; based on that, the BIML has developed a joint work programme with the ILAC/IAF liaison officer; ISO and ILAC will be asked if they wish to participate as observers in new OIML projects 8. IEC: revised MoU was signed at the CIML meeting in 2018 9. IECEx: establishment of a Joint Working Group with the IECEx to explore synergies and opportunities for cooperation (see CIML Resolution no. 2018/13); first JWG meeting held in conjunction with the IECEx Management Committee meeting in Dubai on 25 September 2019 10. MoU with UNIDO-BIPM-OIML should be revisited in light of the CEEMS activities	Y	A	B		
	4 Bureau to continue developing the OIML website so that it provides up-to-date information on capacity-building initiatives, including training materials, and to maintain the database of experts available to contribute to such work	Substantial redesign, re-ordering and expansion has taken place , including the "Experts Database"	Y	B	B		
	5 Bureau to ensure that further development of systems supporting OIML technical work takes account of the need to involve CEEMS in such work	Not much to report at this stage as B 6 and its systems are the still settling down, but minor changes for approval at 2019 CIML will be helpful in promoting the interests of CEEMS	Y	C	B		
	6 Bureau to continue using the OIML Bulletin and the OIML website to facilitate the exchange of new ideas, and in particular new approaches to legal metrology,	1. Bulletin continues to be published quarterly, but three out of the four editions are now published online. In order to continue to produce four Bulletins per year, articles are required. This will be discussed at the 54th CIML Meeting under Agenda item 10.3 2.OIML website has benefitted from continuous improvements: <ul style="list-style-type: none"><li>• CEEMS and OIML-CS introductions translated into French</li><li>• Website clone(s) created for analysis, testing and training purposes. Process being streamlined</li><li>• Ongoing behind-the-scenes work to improve the website and the admin functions, remove bugs, prevent freezes, facilitate update</li><li>• Dashboard concept to be developed to provide more info to Members</li><li>• Liaisons section being reviewed</li><li>• Reporting module to be developed</li></ul>	Y	B	B		
	7 Director to take into account when considering projects which can be supported by the special fund created by the 14th Conference, the particular contribution that research can play in promoting and evaluating new approaches to legal metrology	Proposals for CEEMS projects (and the particular contribution that research can play in promoting and evaluating new approaches to legal metrology) are considered on a case-by-case basis as and when proposals are received.	Y	C	B		
OIML/CIML Office Holders	8 President, Vice-Presidents, the Chair and Vice-Chair of the CEEMS Advisory Group, the Chair of the OIML-CS Management Committee and the Bureau to take particular account of the needs of CEEMS during involvement in activities related to Objective 5 in the OIML Strategy	Diary pressures on the CIML President, VPs, etc. have been heavy this year and financial pressures have limited the support the OIML has been able to give for travel to events where high level contacts are likely. The BIML Director has, however, used trips to Egypt and Fiji to raise the profile of the OIML.	Y		B	Activities under OIML-CS contributed by No.10.	
TCs/SCs/PGs	9 Technical Committees, Subcommittees and Project Groups to take note of the demand from CEEMS to ensure Recommendations and other publications take more account of the needs of CEEMS,	1. Pre-market Surveillance Document now ready for approval. 2. D 1, D 14, and D 19 revisions are under way supervised by the AG. 3. A proposal for an electronic template for compliance testing under R 87 has been put forward for approval at the 54th CIML Meeting 4. WHO: concerning medical devices with a measuring function, Mr. Ian Dunmill attended a global forum in December 2018, where the WHO expressed its interest in working with the OIML; Mr. Ian Dunmill has been tasked to arrange a meeting	Y	B	B		
MC	10 OIML-CS Management Committee to ensure that the needs of CEEMS continue to be addressed in the further development of the OIML Certification System,	1. Promotional activities have taken place to support and address the needs of CEEMS, namely the events in Oman and Colombia and the APLMF seminar in Hangzhou. 2. The OIML-CS also supports CEEMS by allowing economies to participate as Associates - Kiribati and Rwanda have both recently applied to participate in the OIML-CS. 3. Mr. Anthony Donnellan and Mr. Ian Dunmill ran training on the OIML-CS during AFRIMETS in Egypt.	Y	B	B		
MS/ Organization	11 Member States to consider what support they can give to future OIML Training Centers or other initiatives aimed at assisting CEEMS	1. Australia/APLMF has submitted a proposal for a CTT initiative to the CEEMS AG. 2. Brazil has an event later this year. 3. APLMF/PTB MEDEA project has funded participants to going to OTC seminar on OIML-CS. 4. USA NIST paid for over 20 representatives of CEEMS countries/economies to attend two one-week training sessions (one session for SIM countries, the other for African/Asian countries), given by the NIST Office of Weights and Measures, on Fundamentals of Metrology.	Y	B	B		
	12 Member States to be ready to propose conveners for projects to produce other documents of interest to CEEMS and to take advantage of the training which is available for potential conveners, and	Conveners found for the AG-supervised projects, forming project groups has been more difficult	Y	B	B		
	13 Member States and Corresponding Members to consider opportunities to second staff to the Bureau in order to develop the skills and experience of appropriate individuals.	1. BIML now has a secondment from China. 2. Secondment is also an important feature of the "Leaders of Tomorrow" proposal.	Y	B	B		