



**25th ASIA-PACIFIC LEGAL
METROLOGY FORUM AND
WORKING GROUP MEETINGS**
7-9 Nov 2018, Christchurch, New Zealand



Minutes



**Held at Rydges Latimer Conference Hotel,
Christchurch, New Zealand**



25th Asia-Pacific Legal Metrology Forum and Working Group Meetings

Hosted by Trading Standards, Ministry of Business, Innovation & Employment the 25th APLMF and Working Group Meetings were held from 7th to 9th November 2018 at Rydges Latimer Conference Hotel, Christchurch, New Zealand.

The meetings were attended by delegates from full member economies and representatives of international and regional organisations.

7 – 9 November 2018

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Participants

Secretariat & Host Support



Mr Stephen O'BRIEN

APLMF Secretariat

President



Mrs Marian HAIRE

APLMF Secretariat

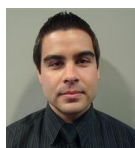
Training Coordinator



Ms Alli SMITH

APLMF Secretariat

Senior Administrator



Mr Mark JONES

Trading Standards Officer

MBIE (Host Support)



Mr Ben AITKEN

Senior Trading Standards Officer

MBIE (Host Support)

Full Member Economies



Australia

Mr Daryl **HINES**

National Measurement Institute Australia (NMI)

Manager of Pattern Approval, Policy and Licence
(Legal Metrology Branch)





Cambodia

Mr **KHLAUT** Ousa

National Metrology Centre (NMC)
Director of Legal Metrology Department



Cambodia

Mr **KONG** Saingheng

National Metrology Centre (NMC)
Vice President

Cambodia

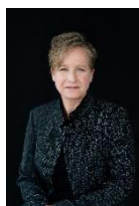
Mrs **PEOU** Vorleaks

National Metrology Centre (NMC)
Director

Cambodia

Mr YIN Vanndeth

National Metrology Centre (NMC)
Chief Officer



Canada

Mrs Diane ALLAN

Measurement Canada
President



Canada

Mr Carl **COTTON**

Measurement Canada
Vice President, Program Development

PR China

Mr **DU** Yuejun

State Administration for Market Regulation (SAMR)
Vice Director-General



PR China/BIML

Mr **GUO** Su

General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
BIML – Engineer

Chair – WG Metrological Control Systems

PR China	Dr PAN Yijie	National Institute of Metrology (NIM) Associate Researcher
PR China	Mr TENG Junheng	National Institute of Metrology (NIM) Vice Director
PR China	Mrs ZHU Meina	State Administration for Market Regulation (SAMR) Director
Indonesia	Mrs Nurrika ANGGRAINI	Secretariat of DG of Consumer Protection and Trade Compliance Secretariat of DG of Consumer Protection and Trade Compliance
Indonesia	Dr Rifan ARDIANTO	Directorate of Metrology Deputy Director of Metrological Analysis
Japan	Ms Mikuko HAMADA	Ministry of Economy, Trade and Industry (METI) Assistant Director, Metrology Policy Office, Industrial Science and Technology Policy and Environment Bureau
Japan	Mr Hajime NEMOTO	National Metrology Institute of Japan (NMIJ),

Principal Research Manager, Research Institute
Engineering Measurement



Japan

Dr Tsuyoshi **MATSUMOTO**

National Metrology Institute of Japan (NMIJ),

Associate Manager, International Cooperation
Office



Japan

Dr Toshiyuki **TAKATSUJI**

National Metrology Institute of Japan (NMIJ),

Director, Research Institute for Engineering
Measurement National

APMP President

Republic of Korea

Mr Chunkang **CHO**

Korean Agency for Technology and Standards
(KATS)

Researcher



Republic of Korea

Mr Seongboo **JEONG**

Korea Testing Certification (KTC)

Researcher

Republic of Korea

Mr Sam-Yeol **KIM**

Korea Association of Standards and Testing
Organisations (KASTO)

Assistant Manager



Malaysia

Mrs Haslina **ABDUL KADIR**

National Metrology Institute of Malaysia (NM

Deputy Director

MEDEA 2 Coordination Committee



Malaysia

Mr Peter **AGANG**

Ministry Of Domestic Trade and Consumer Affairs
(MDTCA)

Head of Legal Metrology Unit

New Zealand

Mr Davis **WHITE**

Ministry of Business, Innovation and Employment
(MBIE)

Legal Metrology Advisor (Acting) and Senior Technical
Standards Officer



Mongolia

Mr Gantumur **GALBADRAK**

Mongolian Agency for Standard and Metrology
(MASM)

Chairman

Chinese Taipei

Mr Chen Chuan **HUNG**

Bureau of Standards, Metrology and Inspection
(BSMI)

Expert

Chinese Taipei

Mrs Hui-Ling **TING**

Bureau of Standards, Metrology and Inspection
(BSMI)

Technical Specialist

Thailand

Ms Pisakorn **PISANKUL**

Central Bureau of Weights and Measures (CBWM)

Director Of Agricultural Products Measurement
Standards Section

Thailand

Ms Benjamas
SIRIWANNANGKUL

Central Bureau of Weights and Measures (CBWM)

Weights and Measures Professional Officer

Thailand	Mr Surachai SUNGZIKAW	Central Bureau of Weights and Measures (CB Director of Bureau of Weighing Instrument Supervision
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Thailand	Mr Phitsanurach YOOPUM	Central Bureau of Weights and Measures (CB Weights and Measures Professional Officer
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United States of America	Mr Ralph RICHTER	National Institute of Standards and Technology (NIST) Senior Engineer
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Vietnam	Mr HA Hai Hung	Directorate for Standards Metrology and Qua (STAMEQ) VMI Staff
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Vietnam	Mr NGUYEN Hung Diep	Directorate for Standards Metrology and Qua (STAMEQ) Director Of Metrology Department
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Vietnam	Mr NGUYEN Trong Loi	Directorate for Standards Metrology and Qua (STAMEQ) Director of SMEDEC 1
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Vietnam	Mr TRAN VAN Vinh	Directorate for Standards Metrology and Qua (STAMEQ) Director
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Honoured Guests and Observers



Honorary Member

Mr John **BIRCH**

APLMF President 1994-2001

Consultant



Guest

Mr Alan **JOHNSTON**

Executive Committee Member

Co-Chair Working Group Meeting



Guest

Mr Anthony **DONNELLAN**

OIML

Director Designate, BIML

Guest

Mr Michael **FRASER**

Asia Pacific Laboratory Accreditation
Cooperation (APLAC)

Secretary



Guest

Dr Sabine **GREINER**

Physikalisch-Technische Bundesanstalt (PTB)

MEDEA Project Coordinator



MBIE Guest

Mr Srinivas **BOBBALA**

Trading Standards (TS), Ministry of Business
Innovation & Employment (MBIE)

Senior Advisor Type Approvals & Technical



MBIE Guest

Mr Julian **CRANE**

Trading Standards (TS), Ministry of Business
Innovation & Employment (MBIE)

Senior Trading Standards Officer



MBIE Guest

Mr Martin **RUSHTON**

Trading Standards (TS), Ministry of Business
Innovation & Employment (MBIE)

Senior Trading Standards Officer



MBIE Guest

Mr Jim **ROBINSON**

Ministry of Business Innovation & Employment
(MBIE)

Manager, Trade & International

Working Group Meeting – Wednesday 7th November 2018

1. Welcome to the APLMF Working Group Meeting – Wednesday 7th November

APLMF President, Stephen O'Brien, welcomed participants and guests to the Working Group Meeting. He noted that 2018, being the 25th year of APLMF was a significant milestone and we could be proud of the Organisation's achievements over this time. The Working Group Meetings were about reviewing and contributing to our working group activities to ensure that the next 25 years are as productive as the last 25 years. He noted APLMF's appreciation to the New Zealand Ministry of Business, Innovation and Employment for hosting these important regional meetings, and also to the Trading Standards team and APLMF Secretariat whose hard work has got us safely to the starting line of this interesting and productive series of meetings. Our work is critical for maintaining and improving the prosperity of the people living in economies with developing metrology systems and for all economies in the wider Asia Pacific region. In the APLMF forum, we work to harmonise technical standards and reduce technical barriers to trade and focus on improving confidence in the accuracy of measurement. It is only through accurate measurement that governments and the legal metrology systems within our region can effectively facilitate trade as well as product safety and environmental protection with valuable outcomes.

He acknowledged, that on the occasion of our 25th meeting, our founding President and Honorary Member, Mr John BIRCH was with us and appreciated his valuable support of APLMF. He also noted our strong relationship with our global organisation, International Organisation of Legal Metrology (OIML), is important to the work we do. He acknowledged Mr Anthony DONNELLAN, Director Designate, International Bureau of Legal Metrology (BIML), who would be taking over the role of Director from Mr Stephen PATORAY in 2019. He also acknowledged Mr GUO Su, currently on secondment with BIML, for further strengthening our ties with OIML. APLMF's relationship with APEC's Specialist Regional Bodies (SRBs) was also critically important and he acknowledged Dr Toshiyuki TAKATSUJI, Chairman, Asia Pacific Metrology Programme (APMP), Dr Sabine GREINER, Project Leader, MEDEA project and Mr Michael FRASER who will join us on Thursday. Michael is the Chairman of the Asia Pacific Laboratory Accreditation Cooperation (APLAC).

He noted we had the right people, right venue and right support in place for an interesting and productive meeting. He recognised the fact that most delegates had travelled great distances to participate in the meeting and thanked them all for their efforts and encouraged active participation.

He summarised the agenda for the day ahead including:

- Hearing about and discussing an exciting new project to develop a library of on-line training modules
- Updating progress on the MEDEA 2 project
- Reviewing progress and discussing the OIML Certificate System
- Updating work on Conformity to Type (CTT) discussion document to be released shortly
- Informative updates from our Training Coordinator, subject matter experts and the working groups

He acknowledged we have a number of new people who have joined our meeting and asked all participants to introduce themselves giving their name, agency/organisation and economy represented. He noted, Mr Alan JOHNSTON (Executive Committee member) would be co-chairing the meetings to support the APLMF President.

Secretariat provided some housekeeping and safety briefings.

2. Working Group Transition Update – Mr Stephen O’BRIEN, APLMF President

- WG Decision Paper 18-10-03
- Call for nominations for WG vacancies – received one nomination prior to this meeting. During the meeting nominations were received to fill all the other vacancies. The Secretariat will follow-up details of the nominees after the meeting. Being on a working group is a real developmental opportunity for the individuals who have an interest in a topic and are prepared to work and contribute as a member of a working group.

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Question: Training Coordinator Mrs Marian HAIRE noted that at the MEDEA Coordination Committee meeting held Tuesday 6 November, Mrs Haslina ABDUL KADIR of Malaysia indicated she would be attending some of the Focus Groups. She asked whether Mrs ABDUL KADIR would be prepared to report back on the work of these groups at the next meeting.

Response: Malaysia Mrs Haslina ABDUL KADIR confirmed she would be attending the APMP Focus Groups on Food Safety and Clean Water.

Question: Training Coordinator Mrs Marian HAIRE asked if there was anyone else in the room who would be joining any of the other APMP Focus Groups?

Response: APMP Chair/Japan Dr Toshiyuki TAKASUJI noted as Chair he was involved in all of the APMP Focus Groups and would be attending all of them. Energy Efficiency (Chair- Thailand), Medical Metrology (Chair – Chinese Taipei) and Climate Change (Chair – Korea)

Comment: President Mr Stephen O’BRIEN noted APLMF to approach the agencies responsible for chairing the various APMP Focus Groups and ask them to identify someone who can be the APLMF representative to report back on the work of the Energy Efficiency, Medical Metrology and Climate Change focus groups

Comment: Training Coordinator Mrs Marian HAIRE noted the current work of redeveloping the APLMF working groups was an important focus over the next couple of years. Part of what we were doing is developing the people within those working groups. WG on QMAP (Quality Measurement of Agricultural Products) is a successful example, Chaired by Mr Surachai SUNGZIKAW, (Thailand) and Co-Chaired by Mrs Haslina ABDUL KADIR, (Malaysia) along with members from Cambodia, Indonesia and Vietnam. Part of what we are doing is developing the people in the working group, so when they join, they don’t have to know everything at the beginning. We want them to be subject matter experts to some degree through participation in the WG. If you have a strong Chair, that Chair will provide activities and developmental opportunities. Example: QMAP WG, Dr Tsuyoshi MATSUMOTO as the outgoing Chair has spent a considerable amount of time this year, working with the incoming members of that group and we are running a training course in December, where all of the group members will be active in some manner in delivering that training course. Ultimately at the end of the training course in December, all participants in that WG should be capable of implementation of Rice Moisture meters verification systems within their own economies, but in addition they have the support of the other members of their WG as they have worked closely together, so they can email/phone them and get information and help.

She noted that putting forward a representative for a WG is all about giving someone within your economy a developmental opportunity. We have to have strong chairs, who believe in that ideal and are willing to take that forward with the support of the Secretariat and MEDEA. She also noted we should think this is would be a more

powerful way of running our WGs than what we had done in the past. After 25 years, it is time for change and a new structure – a revolution is required in the way we approach the working groups.

Response: QMAP Chair Mr Surachai SUNGZIKAW noted in July 2018 we held a small training course for WG members with Dr Tsuyoshi MATSUMOTO. He transferred his experience and knowledge and the participants looked to how to expand the working group offerings to other grains and beans. They also wished to recruit more members to the WG up to 8 to 10 to develop future training on verification of coffee bean/bean moisture measurement.

Comment: President Mr Stephen O'BRIEN noted it was interesting to see the scope of the QMAP WG is moving beyond rice to other important quality measurements of grains and beans.

Comment: Malaysia Mrs Haslina ABDUL KADIR noted the process in QMAP had focussed on training individuals within the group to deliver Rice Moisture Measurement training which complies with legal metrology. She also noted there were a lot of parameters to determine rice quality and the challenges were how to get the trainers proficient and how to choose future products which benefit all or most Asian economies.

The list of vacancies for each Working Group was discussed and some economies volunteered to provide representatives.

Action after the meeting: The list was circulated in December 2018, with the request that representatives and contact details would be provided. Replies to the list were received, appointments were announced and WG webpages were updated in early February 2019.

3. Training Coordination Report – Mrs Marian HAIRE, APLMF Secretariat

- Key activities 2017/18 – 4 training courses
- Highlights of achievements 2018
 - QMAP exemplar of new way Working Groups will operate
 - 5 new guide test procedures – added to Guide 7 – an excellent reference to assist with verification
- MEDEA 2 – development of operation plan to meet programme objectives
- Planning for future training courses 2019-2021 – including e-learning modules

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Comment: PR China Mr GUO Su noted PR China would like to put themselves forward to Chair the OIML-CS Working Group. They are already working on the Terms of Reference and Scope and calling for members to join this group.

Comment: Training Coordinator Mrs Marian HAIRE noted that she would leave the organisation of the OIML-CS Seminar in PR China in 2019 to that working group.

4. MEDEA Update – Dr Sabine GREINER, PTB

Promoting regional cooperation in Metrology in the Asia-Pacific region

- MEDEA 2 funded by Federal Ministry for Economic Cooperation, PTB Germany
- MEDEA 2 partners – APMP and APLMF
- EUR1.3 Million – May 2018 – April 2021
- Programme benefits more than 20 economies

- Interventions – Sustainability, Regional Cooperation (CABUREK) and Technical Training (Legal and Scientific)

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Comment: President Mr Stephen O'BRIEN noted the MEDEA 2 project is an important area of work for APLMF and acknowledged the sponsorship by the German Government and administrative support of the project by PTB. He also noted the CABUREK training development tool is unique and there is a real emphasis on the development of both soft skills and technical skills and asked for more information on how this works. He asked if any of the CABUREK's group coaches could share their perspective and any 'takeaways' from the first meeting in Thailand last week.

Response: CABUREK Coach for Market Surveillance Group Mr Alan JOHNSTON along with 6 participants and Mrs HAIRE was co-coach. He noted it was interesting how quickly the group came together to develop their project. He was not present at the planning meeting held in Hong Kong in July, so he was starting behind the other coaches. It seemed at first there was some confusion about the direction for which the group was heading in terms of the development of these projects. However, on the second day, to the credit of the participants, almost every one of them had put together a concrete proposal, which Mrs HAIRE and Mr JOHNSTON critiqued and the participants took that under advisement and had one month to go back to their respective economies to seek approval of their Directors in terms of the project. He acknowledged how enthusiastic and talented some of the individuals were in this group and how quickly they were able to grasp the scope of what they wanted to do. Many participants exceeded expectations and he noted he had confidence that the Market Surveillance projects will be successful, and these projects will help the participating economies in the longer term.

Comment: President Mr Stephen O'BRIEN also noted that another unique difference with this project is the fact that the representatives of the economies are coming up with their individual projects and they are funding and resourcing those projects. The coaches are facilitating and helping, rather than giving them the answers and resources, so there is real ownership of the outcomes.

Comment: Thailand Ms Benjamas SIRIWANNANGUL, member of the Market Surveillance working group advised that Thailand was expected to implement a market surveillance system. They had a lot of knowledge about market surveillance terms and definition and had also initiated a project for the last two years. They hoped to benefit a lot from the CABUREK project.

Question: PR China Mr GUO Su asked that during the CABUREK meeting, he noticed some member economies didn't join this CABUREK project and he had discussed, for example, with Cambodia if they missed the invitation email. So he just checked if PTB was still open for more members?

Response: PTB MEDEA 2 Coordinator Dr Sabine GREINER noted as far as she was aware the invitation/information was sent to all economies. The idea of the project is that participants attend all the 5 workshops, so it may be difficult to still join because they would have missed the kick-off workshop so she would need to look at any specific cases if they didn't receive the invitation.

Following the meeting: Dr Greiner checked and discussed this individual case with the CABUREK Technical Committee. The outcome was, Cambodia was accepted to join the CABUREK programme. Cambodia is involved in a Market Surveillance project

5. Pre-packaged Goods (PPG) WG – Mr Davis WHITE, New Zealand

- Membership – support change of Chair
- Activities
 - Training Course of Pre-packaged Goods
 - AQS (Average Quantity System) Reference Test spreadsheet – endorsed by OIML
 - Pre-packaged Goods Test Procedure Survey
- Future focus
 - Refocus on new WG membership
 - Quantity Mark – recognised/accepted by all economies
 - Legislative amendments – include updates to OIML Recommendations
 - Assessment & Calculation Tool for AQS

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Question: Training Coordinator Mrs Marian HAIRE queried whether an assessment was to be developed or had already been developed?

Response: PPG WG Representative Mr Davis WHITE noted there is a reference test spreadsheet available that applies the requirement of R87 to a lot of Prepackaged Goods. He noted that there is more to an inspection than simply applying R87 and proposed that the current spreadsheet could be expanded to include the requirements of R79 and any other relevant legal metrology inspection requirements. The ultimate goal would be to develop a complete tool for legal metrology officers to be used in the field. Also, he noted that the current resources were available on the APLMF website, which were developed for the Prepackaged Goods Training Course in PR China, could be adapted to be included in the proposed online learning modules. This would further equip legal metrology officers in the APLMF region. He noted that Mr Stephen PATORAY (BIML) was very keen to make the current spreadsheet available at OIML level; when the spreadsheet was used and discussed at the Prepackaged Goods training course in PR China.

Question: Training Coordinator Mrs Marian HAIRE noted, some material does exist at the moment and the WG should build on it. She asked if New Zealand, PPG WG or OIML is going to do that work?

Response: PPG WG Representative Mr Davis WHITE noted as that this was a future focus, who would do the work has not been ascertained. He envisaged that it would be part of the handover from outgoing Chair Mr Phil SORRELL to incoming Chair Dr Rifan ARDIANTO. It would be a recommendation however and, it would be up to the new Chair to delegate the work required to achieve that work.

Question: Training Coordinator Mrs Marian HAIRE also asked about the ‘Quantity Mark’. She understood that this topic was discussed at this Forum about five years ago and she wasn’t sure there was appetite amongst APLMF members to develop a different Mark. That might have changed; so she wondered where this item had come from and whether this Forum believed it should go forward with this as a future focus.

Response: PPG WG Representative Mr Davis WHITE advised he was unable to answer that question and perhaps it should be opened to the Forum to decide whether it is appropriate to move forward with the quantity mark.

Comment: Incoming PPG WG Chair Dr Rifan ARDIANTO suggested that for the next workplan, he asked Mrs HAIRE to plan a workshop on OIML G21 on the certification system for prepackages. He proposed two directions for the

workshop, i.e. (1) just an introduction to the certification system for the members that wished to build a regional quantity mark and (2) preparation for the international system at the first priority.

Response: Training Coordinator Mrs Marian HAIRE queried whether we leave the issue on Quantity Mark as it is, or we will deliver the workshop on OIML G21 and see what comes out of it. She undertook to talk to Dr ARDIANTO afterwards to clarify the situation.

Comment: Honorary Member Mr John BIRCH noted he thought there would have been two aspects of the Quantity Mark. One was whether we should have a Quantity Mark in the APLMF Region or whether we should have an international quantity mark through OIML. One of the problems with the second option is that the Europeans haven't been keen about having their particular quantity mark supplanted. His understanding, and he noted he would be interested to hear from other economies present, that PR China and Japan have a quantity mark; other economies also may have one. He noted a proliferation of national quantity marks is not the way we want to go, and he rather preferred a comprehensive quality mark.

Comment: Japan Dr Tsuyoshi MATSUMOTO noted Japan don't have Quantity Mark, but he believed Korea has a quantity mark.

Comment: President Mr Stephen O'BRIEN added, that at this stage, the piece of work is to assess whether or not there is an appetite in this Forum for a quantity mark. So, the quantity mark is a topic and then the working group's role is to have a look at it and to think how it would work. There is work being done in the ASEAN metrology group around a potential quantity mark. Following on from Mr BIRCH's comments, the important thing is that we don't want a proliferation of independent unrelated marks.

Question: Training Coordinator Mrs HAIRE asked if we could determine if Korea has one?

Response: Republic of Korea confirmed they have Quantity Mark like a 'K Mark'

Question: Training Coordinator Mrs HAIRE asked if we could determine if PR China has one?

Response: PR China confirmed they have a quantity mark and Vietnam confirmed they also have one.

Comment: Training Coordinator Mrs HAIRE noted we currently have three quantity marks.

Comment: Australia Mr Darryl HINES noted they utilise the E Mark.

Comment: Training Coordinator Mrs Marian HAIRE noted she was interested to hear from Mr KHLAUT Ousa to update us on ASEAN's work in this area.

Response: ASEAN Mr KHLAUT Ousa noted that in ASEAN Cambodia, Thailand and Vietnam have developed a quantity mark. He outlined that Cambodia has a few issues with transformation of the government including a transfer from Central Government to Local Government, so issuing the Quantity Mark has been postponed as the capacity and facilities of the Local Government is limited. Thailand and Vietnam have priority in the list on what they can issue for the Quantity Mark.

Comment: Training Coordinator Mrs Marian HAIRE asked if that meant Thailand and Vietnam were using the same mark?

Comment: Thailand confirmed it had Q Mark which was different from V Mark in Vietnam.

Comment: Indonesia Dr Rifan ARDIANTO advised they tried to harmonise the mark for the ASEAN 'A Mark' but could not get alignment with all the ASEAN economies. The other economies use the best practices and examples of Thailand and Vietnam as the test standard. They also have some support from New Zealand, so the WG needs to continue to work towards a comprehensive Quantity Mark for consistency.

Comment: Honorary Member Mr John BIRCH recalled the fact that there was a proliferation of quantity marks, highlighted that a comprehensive system was important in terms of the efficiency of market surveillance of Prepackaged Goods and proposed that, we should recognise the importance of this system.

Comment: President Mr Stephen O'BRIEN thanked the Forum for those comments and undertook that New Zealand would take those issues on board and move forward as a member of the Prepackaged Goods WG.

6. Utility Meters – Mr Carl COTTON, Canada

OIML Activities

- Electricity Meters TC 12 – R46
- Water Meters TC8/SC5 – R49
- Natural Gas Meters TC8/SC7 – R137, R139 and R140
- Application of Statistical Methods TC3/SC4
- Software TC5/SC2/P3 – D31

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Comment: USA Mr Ralph RICHTER referred to the slide outlining the recommendations for OIML TC8/SC7. He noted he participates in that technical committee and the Secretariat of that sub-committee from the Netherlands has retired and so he thought the R140 will not see a first working draft in 2018. That project has been on the books for many years and seems to be falling through the cracks. They worked on R137 and R139 pretty hard and got those finished but R140 is still in its first stages.

Question: BIML Mr GUO Su asked the Secretariat, Working Group and Canada –because OIML also needs training on R49, it should be covered by APLMF training in Malaysia in 2019. He noted that this training only happens in Asia and asked if a trainer could be provided for the future for OIML. Also, he asked if Canada could provide the training materials for water meters because in 2008 we had a trainer (James WELSH now retired) from Measurement Canada.

Response: Training Coordinator Mrs HAIRE noted we delivered a Water Meter training programme in 2017 and we will be using that material in Malaysia in October 2019. Measurement Canada will have to develop some additional materials to go along with the present one, but what we used in 2017 is more up to date than those presented by them in 2008. She hoped that Malaysia would be happy to be invited to support OIML's implementation of R49 once the training materials have been developed and the training has been delivered.

Comment: PR China noted that as far as the training course is concerned, they have an expert in electricity and gas meters, but at this moment they require some support from other economies, with regard to the water meter training course and the training materials. They invited Malaysia and other economies to join this activity specifically.

Comment: Training Coordinator Mrs HAIRE also referred members to the Test Procedures that are on the APLMF website because they are a summary of the procedures delivered at the training course, which could be a good starting point. <https://www.aplmf.org/guide-test-procedures.html>

Comment: Honorary Member Mr John BIRCH referred back to Electricity and Smart meters. In the 1990's the OIML technical committee decided that whilst the metering aspect of smart meters came within the scope of OIML recommendations the "smart component" was not within the scope of legal metrology. He noted he didn't agree with this, as he thought it was a narrow view of the scope of legal metrology. The issue was eventually addressed at an OIML seminar on smart meters in 2009 and arising from that smart meters were fully covered by OIML recommendations.

Comment: BIML Mr Anthony DONNELLAN reflected on Mr BIRCH's comments, he undertook to revive some liaison work with COPOLCO from an OIML perspective. He will leave it up to Australia if they wish to make any comments as they Chair OIML TC12. He thanked Mr COTTON for the presentation and also mentioned that the second CD for the revision of D 31 regarding the requirement of software was released recently on 7th November 2018.

Comment: President Mr Stephen O'BRIEN thanked the participants for their comments and reiterated Mr BIRCH's comments. As part of a Consumer Protection Branch within his Ministry, Smart Metering is certainly an issue for consumers and users of electricity. It would be interesting to see if we can develop some kind of response to enhance protection of those consumers within the legal metrology fraternity.

7. On-line e-learning modules

Mr Stephen O'BRIEN introduced this session, which comprised an overview of the e-learning training modules and an example of a pilot training module in NZ, based on the OIML recommendations which can easily be repurposed for APLMF.

- 7.1 Introduced of the project to develop library of e-learning modules – MEDEA 2 – Mr Stephen O'Brien
- Project overview and outcomes
 - Benefits of online training modules

Download: [Presentation](#) (note presentation also covers 7.6 below)

- 7.2 Overview pilot 'Non-Automatic Weighing Instruments' (NAWI) – Mr Julian Crane (MBIE)

Overview – online modules

- Designed to be a learning and assessment tool
- Used by Legal Metrology Officers and private sector Verifiers
- Sets the minimum requirement for all parties
- Accessed online by registered users, and all assessment results are logged
- Learning using written procedures and animations
- Interactions to self-assessment (with feedback)
- Final assessment (with feedback)

- 7.3 Demonstration of NZ Module – Testing Weighing instruments ≤ 300 kg (this is not available to view)

- 7.4 BIML's cooperation on e-learning – introduction to OIML Learning Management System – Mr Guo Su (BIML)

- OIML learning platform
- Cooperation between OIML and APLMF

Download: [Presentation](#)

Comment: President Mr Stephen O'BRIEN noted one of the aspects of the design of the modules, they were written in Moodle (a free open source learning management system) enabling them to be used on a number of platforms. When we do decide to use this system, we expect the modules to be shared widely.

Question: Australia Darryl HINES asked how the development of the e-learning modules are funded and is there a cost associated with accessing the modules?

Response: President Mr Stephen O'BRIEN advised, the development of the identified modules will be funded by the MEDEA 2 project. Regarding the first module on NAWI, as it has already been developed by MBIE for New Zealand, the rest of the work will be the modification for APLMF. Decisions will need to be made about where the modules will be hosted, and one of the attractions of utilising a learning management system (LMS) is that OIML already has one in place. At the moment, we are considering a model where they are free to use. At a later date, we may think about a model where assessment is added and has a cost attached.

Comment/Question: Japan Dr Toshiyuki TAKASUJI commented the NZ e-module demonstrated was very interesting and he was fascinated with this. Are there any plans to make multi-lingual versions? Could the commentary of the module be provided for the economies to translate?

Response: President Mr Stephen O'BRIEN noted that the modules are being developed based on individual tests. For example, if an economy doesn't use a particular test, they can elect not to complete that module. As the modules use animated scripts, these could be provided for economies to translate it. He was not sure how that would work, but it should be a goal we would be keen on achieving.

Comment: Training Coordinator Mrs Marian HAIRE, noted Su's presentation implied that the version demonstrated by Mr CRANE wouldn't fit on the OIML LMS platform.

Response: BIML Mr GUO Su clarified a solution would be, to add a link to the module or to reconstruct the platform, which would cost a lot, so we would propose to use the link to start with.

Comment: Training Coordinator Mrs Marian HAIRE noted that we have to host the module somewhere in order to have a link. We developed this always with the idea that we were going to host it on the OIML LMS platform and she understood that we actually had developed the module in the right language for this. (e.g. moodle)

Response: BIML Mr GUO Su responded that of course it can be hosted on the BIML server, which is no problem.

7.5 Confirmation of topics for e-learning modules – Mrs Marian HAIRE

Test Procedure Guides which have already developed or planned:

- NAWI – Draft Module needs to be branded as APLMF (this would then be the model or template for future modules)
- 2019 - Prepackaged Goods (AQS), Rice moisture meters, Weighbridges/Spring Balances (these could be developed by existing Working Groups) and OIML Certificate System by a proposed new working group. It was proposed that the people working on these modules be brought together to work on developing the modules (they would need to prepare beforehand, fully understand the model and be thinking about how to apply this to their subject matter)
- 2020 Taxi meters, Water meters, Fuel Dispensers (Petrol/Diesel) and also LNG,

- 2021 Bulk Fuel and CNG
- It was noted the Metrological Control Systems WG would be the umbrella group for the e-learning module projects

Comment: President Mr Stephen O'BRIEN suggested a sub-module of Weighbridges - 'The use of substitution' and asked Mr CRANE for his comments.

Comment: New Zealand Mr Julian CRANE noted that when Trading Standards originally looked at the scope of the module, weighing instruments and fuel dispensers took the primary share in NZ with about 60% for weighing instruments. We have the module as the entry level model – a lot of the tests were translated to a weighbridge and then we have another module that covered substitution – you would call it 'The High Capacity Weighing Module' and you would add specifications for testing a weighbridge. There is no point repeating materials already completed. Rather, the second module would pick up the differences between the result on a weighbridge with substitution and in the substitution module or a mini weighbridge module. Trading Standards was planning to take the same approach for the Class 2 weighing instruments and for other measuring instruments. So, you would have high flow and low flow for example – where you pick up fuel dispensers or gantry systems.

Comment: Training Coordinator Mrs Marian HAIRE noted Mr O'BRIEN had mentioned to her that there might also be another module for Spring Balances. She added that we haven't got volunteers for going deeper into NAWI, which would be adding a Weighbridge Module and a Spring Balance Module. She suggested New Zealand take a lead role in developing those two modules and asked for other volunteers.

Question: President Mr Stephen O'BRIEN asked for feedback from other economies regarding modules for spring balances and mechanical weighing instruments.

Response: Thailand Mr Surachai SUNGZIKAW indicated Thailand would be interested in participating in developing a module on spring balances.

Response: Malaysia Mr Peter AGANG advised they would also be able to assist to be confirmed.

Comment: President Mr Stephen O'BRIEN noted the advantage of these modules is being able to identify the needs within the Asia Pacific and respond accordingly. For example, Rice Moisture Measurement is a priority within our region. Spring balances and mechanical instruments are more prevalent than other economies in Europe for instance. He noted that Malaysia has a model truck that goes over a miniature weighbridge, with all the indicators attached. That is exactly the sort of thing we want to reproduce in a module so that people can see what is actually happening. Weighbridges is a difficult one to train because you have to have the masses, forklift and the trucks, so Malaysia's input will be very helpful.

Comment: USA Mr Ralph RICHTER - There are many applications regarding what you could consider Bulk Fuel. For example: at a loading rack, with a road tanker, dumping into a fuelling station, loading a ship etc. So he wasn't sure exactly what the scope around Bulk Fuel would be and what applications would be taught.

Response: Training Coordinator Mrs Marian HAIRE commented that the planned modules are based on the test procedure guides, so all you need to do is refer to the Guide and this would clarify the scope of the module. That is the reason why these topics are in this list, because we have done the ground work of developing a test procedure guide and we have delivered training, usually more than once, in all of these areas. We recognise there are many other instruments we could develop modules for, but we will focus on the areas that the APLMF community have asked for training in and actually have systems for verification within their economies. So that is driving the module

topics. If we have success with the topics and work is identified started in 2019, then we can add more for the following years. It is a very ambitious goal to produce 3 or 4 modules in 2019.

Comment: Australia Mr Darryl HINES referred to Mr RICHTER's point and suggested that we should use a principle-based approach to the learning materials, so that you should look at the technique. For example, in a case using a master meter or a volume measure; R117 covers all of that; you are looking at the principle of what you are trying to achieve, whether it is a reverse non-return valve test, a hose dilation test, accuracy performance test or air elimination test; they are all segregated into modules and the different applications could be pulled together, even if it is a loading rack at pipeline transfer meter.

Comment: President Mr Stephen O'BRIEN noted they were useful comments and these ideas support the concept of building a library of modules. We have identified the core modules defined in the test procedures so far, but there are many sub-modules for different applications under the same principles that could be added for in the future. He expected that once we have produced a couple of modules, some of these associated issues will be resolved.

7.6 APLMF's involvement with the Review of OIML International Document D14 – Mr Stephen O'Brien
Stephen represented APLMF at the recent CIML meeting in Germany and attended the Countries and Economies with Emerging Metrology Systems (CEEMS) and also reported to the Regional Legal Metrology Organisations Round Table. There are two projects being developed through OIML that he wanted to raise attention with APLMF members. They are both in their early stages, but it would be good to get APLMF's input into these projects.

The CEEMS Advisory Group is looking at a potential project to create a new guidance document on the OIML Training Centre. OIML have had the successful pilot in PR China as an outcome of its training and development work over the last 25 years. There are really successful experiences within the Asia Pacific Region and we should make sure that APLMF had an involvement in the contents of this document since earlier times. The second project is a review of OIML International document D14: 2004 'Training and Qualification of Legal Metrology Personnel', which is in the process of being reviewed. This is also an important early 'heads up' for us as we are talking about training including the new modules. These projects and documents review in OIML conform to what we are thinking about.

He strongly urged the APLMF members of the need for having effective input into these two OIML projects. He recommended that we nominate the APLMF Training Coordinator, Mrs Marian HAIRE to represent APLMF on those project groups once they are formed.

Download: [OIML.D014-e04](#)

8. OIML Certificate System (OIML CS) WG – Mr Ralph RICHTER

Co-Chair Mr Alan JOHNSTON introduced this session on the OIML Certificate System WG which identified how to overcome the impediments to the system and how to promote the APLMF economies utilising this.

Mr Stephen O'BRIEN noted that the new OIML framework for a Certificate System was replacing the OIML basic certificate system and the OIML Mutual Acceptance Arrangements since the 51st CIML meeting in 2016. He noted the decision was made to replace those two systems with the OIML CS and this new system would be a single a system for issuing, registering and using OIML Certificates with associated type evaluation and test reports. We can utilise those documents for the types of measuring instruments based on the requirements of OIML Recommendations. The other key issue is that the OIML CS also covers families and modules of measuring

instruments. The aim of the OIML CS is to facilitate, accelerate and harmonise the work of national and regional bodies that are responsible for Type Evaluation and Approval of measuring instruments subject to legal metrological control. This is a system that we can utilise in our member economies. In the same way, for instrument manufacturers who are required to obtain Type Approval in some economies in which they wish to sell their products, they should also benefit from the OIML CS as it will provide evidence that their instruments comply with the requirements of the relevant OIML Recommendation. There are advantages there for regulators from the manufacturer's perspective.

The System came into effect on 1st January 2018 and it is of strategic importance to many economies within the Asia Pacific as it offers us the opportunity to become utilising participants and increase the competence and efficiency of our national type approval systems. The national legal metrology authorities of the economies, where a national type evaluations programme is required even though there is no capability or facility for testing, will obtain a benefit from OIML-CS. These are significant benefits for economies – for example in New Zealand where we are utilising these test reports, the OIML CS provides additional formal evidence to enable us to accept or utilise the OIML Type Evaluation Reports.

Mr O'BRIEN noted that this session would be a useful introduction to the OIML-CS including an update on the recent developments in how we can participate in this system as utilising or issuing authorities. Mr RICHTER will present on behalf of our subject matter experts in this area (Mr Bill LOIZIDES (Australia) and Dr Charles EHRLICH (USA) who were both unable to attend the meeting). Mr O'BRIEN also acknowledged Mr Paul DIXON, the OIML CS Executive Secretary, for his input into this presentation.

Mr RICHTER noted that the subject matter experts, Mr LOIZIDES and Dr EHRLICH attended a meeting of OIML-CS in Sydney in March 2018, and a number of participants from the APLMF economies would have attended an earlier version of this presentation in Hamburg in October 2018, given by the OIML CS Management Committee Chairperson, Mr Cock OSTERMAN (Netherlands). Prior to this WG meeting Mr O'BRIEN, Mr HINES and Mr RICHTER got together to go over the various overview points to be presented at this meeting as shown below:

- Objectives and Benefits
- Structure
- Meetings – Management and Review Committees and Maintenance Group
- Working Groups on R 60 and application of ISO/IEC 17065
- Changes to OIML-CS documentation – approved in Hamburg, October 2018
- Functioning of the OIML-CS
- Certificates Issued
- OIML Issuing Authorities, Utilizers and Associates
- Legal Metrology Experts
- Seminars and Website

In summary, the OIML Certificate System became operational from 1st January 2018 and it is functioning. Certificates are being issued, experts are available to perform assessments of the issuing authorities, new recommendations enable instrument categories to shift from scheme B to scheme A and the test data obtained under the old system can be used under certain conditions to issue scheme A certificates.

Comment: President Mr Stephen O'BRIEN noted the new OIML-CS provides an opportunity for utilising participants and for other economies to use the results of Type Approval Testing that is being done internationally. He asked how APLMF can support member economies to become utilising participants in the OIML Certificate System. We want to

realise the benefits from this scheme for the economies within our region to improve their national type approval regimes. We would like to hear from the economies who are registered as utilising participants already and identify the impediments to other member economies becoming utilisers.

Comment: BIML Mr GUO Su shared some numbers as an overview for the OIML CS within the APLMF region: Currently 3 member economies are issuing authorities (Australia, PR China and Japan). There are currently 8 utilisers (Australia, Canada, PR China, Colombia, Japan, Republic of Korea, New Zealand and USA). Within APLMF 20 full members 11 are OIML full member states and 8 are OIML corresponding members.

Question: President Mr Stephen O'BRIEN asked for some of the utilising economies to talk about some of their experiences with the OIML-CS?

Response: Australia Mr Darryl HINES advised from Australia's perspective, as an issuing authority and a utiliser. He thought, as was pointed out in terms of being a utiliser, there is not a huge amount of difference between the requirement of OIML-CS and what was previously encountered in the basic certificate system and the MAA. However, he reported there is more rigorous requirements around the OIML-CS with regards to demonstrate competence of the legal metrology authority in the evaluation of the test results. Also, an accreditation is required to test laboratories in terms of ISO/IEC 17025 with regard to performing tests. He thought, it is considered in Australia that the national framework also allows for appeals, if there are some concerns about the test results, that may have come out of a test laboratory. There is a mechanism and a process in place to ensure that the appeals be investigated as well. That framework gives the economies extra confidence in the System. As a utiliser, you can also put conditions on your engagement in OIML-CS. In Australia, one of the conditions we have put on our participation as a utiliser is that we will not accept results from the test laboratories of a manufacturer. At the present time, we haven't got the confidence of the robustness of manufacturers in all cases, so until we get more opportunity to see the System evolve, we have to put that condition on. In terms of the national framework, Australia is comfortable and confident that it is a positive thing. For the economies that don't have a test laboratory, and can't become an issuing authority, utiliser is a good way of being able to reduce those barriers to trade.

Question: President Mr Stephen O'BRIEN asked for feedback from any economies that were not currently utilisers of OIML-CS about any help APLMF could provide to facilitate their participation.

Mr O'BRIEN noted, New Zealand's experience is similar to Australia in that we previously accepted OIML basic certificates from issuing authorities in other full OIML members. He thought it might be useful for developing economies or those with emerging systems to focus on analysing the test results accompanying the OIML type approval certificates. It is not a matter of re-testing of instruments, rather a matter of developing the national skill and understanding to be able to analyse the test results for making a right decision based on them. So, we maintain our confidence in the instruments that are type approved in New Zealand by having confidence in those test results, along with the OIML Type Approvals. There are so few issuing authorities in our region, it is important that economies that are utilising those approved certificates are able to have the technical knowledge to be able to look at the data to make an informed decision. Because the new OIMLCS increases that confidence, as Mr HINES mentioned, there is a greater degree of rigour around issuing authorities. In New Zealand, we don't have many instrument manufacturers and they were relying on imported instruments, so the confidence in those OIML type approval certificates is critical. Type approvals are fundamental to the legal metrology system and we see the OIML-CS as a key element.

Question: Indonesia asked if it was possible for APLMF, through the OIML-CS working group, to create a fact sheet about the benefit of being an issuing authority. He thought that such a fact sheet would be helpful for members looking to establish a national certification system.

Comment: Director Designate, OIML, Mr Anthony DONNELLAN endorsed all the comments made. He thanked Mr RICHTER, Mr HINES and Mr O'BRIEN for the presentation, which was an important topic, not only from a regional context but also from a global context in terms of the consistency of application of a legal metrology framework on a global scale. He appreciated the comments from experiences thus far, including the last comment around a fact sheet, which was a terrific idea. While there is some material on the OIML website, OIML is keen to learn more. He acknowledged Mr O'BRIEN and the APLMF for running this session as it had been helpful to understand the needs of members. If those economies need 'a more detailed fact sheets', discussions are needed on a regional level at APLMF in terms of 'what APLMF would work on', then OIML is happy to support this work through the APLMF member economies. He thanked members for their support of the OIML-CS which was finishing its first year and noted 'we are looking forward to growing it'.

Question: President Mr Stephen O'BRIEN asked for any comments/experiences from the OIML Issuing Authorities to date.

Response: PR China, We provide one of the first Issuing Authorities joined OIML-CS and we have gained benefits from the Certification System. With this experience, we would like to serve as the Chair of the OIML-CS Working Group if that is agreed to. Cambodia, Indonesia, New Zealand and Thailand have indicated an interest in joining this WG.

Comment: President Mr Stephen O'BRIEN appreciated the fact that PR China is prepared to lead a small working group focussed on promoting the OIML-CS within the Asia Pacific Region. The ideas, we had from Indonesia for developing a fact sheet specifically for our economies, would be a useful initiative for that WG. He noted that the member economies have different systems and different ways of utilising the CS, so it would be helpful to have a diversity in the WG members, so that WG can make sure the materials produced meet every economy's needs. Mr O'BRIEN also mentioned that he was aware that an ASEAN group has a guide on Type Approval and it would be good to make sure that this guide is shared with this Working Group of APLMF. He asked for an update on that guide.

Response: Thailand noted that ASEAN is drafting the guideline for the Type Approval and in the previous meeting in Cambodia they discussed the market surveillance related to Type Approval.

Type Approval Guidelines of ASEAN have been endorsed by the ASEAN Consultative Committee on Standards and Quality (ACCSQ) already. Thailand's understanding was that ASEAN intended to implement Type Approval System using these guidelines in ASEAN countries. The Type Approval Guidelines of ASEAN will be published by PTB before the next meeting in June 2019.

Question: Training Coordinator Mrs Marian HAIRE asked if we could have a link to the guidelines? The ASEAN guidelines would be very useful for the current CABUREK project.

Cambodia Mr KHLAUT Ousa, new chair of ASEAN ACCSQ WG3, agreed that ASEAN could provide APLMF with the link to the ASEAN guidelines.

Comment: President Mr Stephen O'BRIEN thanked Mr KHLAUT for that. It would be very useful to see as we develop and implement the OIML-CS consistent with the ASEAN guidelines to ensure that we are getting the most benefit out of the new OIML Certificate System.

In closing, Mr RICHTER mentioned that APLMF is looking to develop joint training program between OIML and APLMF as part of the MEDEA2 for utilising the OIML-CS, so that it will be another valuable output for the OIML Working

Group. He noted there are some interesting developments and we are well prepared to make sure that we get the most benefit out of this new system.

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9. Conformity to Type – Mr Stephen O'BRIEN

Conformity to Type is a program for conformity assessment procedures focussed on the assessment of the measuring instruments to give assurance that the manufactured or production instrument meets the approved type.

He highlighted what is happening with the new Conformity to Type (CTT) document of OIML, which is related to the topic we have been discussing in that, is a concern that, even if a type approval is accepted in the ideal world, the missing link will remain if we the focus on the conformity to that type. There is a need for making sure that production instruments entering our economies are consistent with the approval type and they are the same as the instrument that was type approved. This is an important area of legal metrology.

Globally there is a reduction in the national capability for type approval testing though some of the tests are conducted as a result of good work. If we are accepting test results internationally, economies don't need to re-test every instrument, but now there is a need to maintain that confidence. There is also increased complexity in a global supply chain. It was seen before than an instrument might have been manufactured, type approved and used only in New Zealand. But the reality is, the global supply chains are now very complex. EG. a product might have been manufactured in an Asian economy, type approved in Netherlands and used in New Zealand. There is a real potential for developing economies to become a dumping ground for instruments that do not consistently meet their approved type. That is a gap we are looking to fill with a Conformity to Type program. We need to know what and how to check for the conformity to type and that is one of the reasons we have developed this OIML document. A CTT program is preferably done at a central or local government, e.g. not in the market place, it is also done at the point of importation or somewhere a product is offered for the supply chain.

He noted there is a general lack of knowledge of instruments, particularly an insufficient knowledge on the software is opening up to a possibility of an undesirable manipulation of instrument.

There is an OIML technical committee, TC 5/SC 2 that is working on this project regarding software where a revision of D 31 is in the final stages of coming up with a Committee draft.

This OIML guidance document is out for the project group members to comment with a final vote by 10th December 2018 with an expectation that the document will be circulated to CIML International Committee of Legal Metrology members early in 2019 and looking to get approval by online ballot. So, he was encouraging those who are CIML members to have a look at this document when it is circulated and get it voted through online ballot. If approved, it will be a useful document for a potential regional conformity to type programme. There was talk that Australia, New Zealand and other interested APLMF economies are looking to form a small working group to develop a potential project to apply this guidance document to a pilot program within the Asia Pacific Region.

He noted that not many economies are actually conducting a conformity to type program and as a result we don't have a clear picture of whether CTT is a major problem or not. So, we need to start with a small group and look to doing a CTT pilot at a future date.

Comment: Australia Mr Darryl HINES noted Australia would be interested in leading a pilot programme.

Comment: President Mr Stephen O'BRIEN noted it is a complex area and it is envisaged that we would start with a small introductory pilot once this document is released and then come back to this group once we have some more detail about the pilot. Any other economies interested?

Comment: Honorary Member Mr John BIRCH commented, he would have thought that conformity to type should be part of the OIML-CS itself, so that when a certificate is issued there is an expectation that CTT could be carried out and that the funding for this program should be part of the CS fee. Has any thought been given to that idea or are they being dealt with quite separately?

Response: OIML Mr Anthony DONNELLAN noted at this stage they are somewhat separate, but as the OIML Single Certification Scheme evolves, that could potentially incorporate CTT if there was sufficient interest from member states. Although he would not commit to that concept at this stage, but noted it was a valid point.

Download: Document [OIML 4CD CTT D](#) or [Presentation](#)

10. Metrological Control Systems WG – Mr GUO Su, PR China/BIML

- Membership
- Updating Terms of Reference
- Activities
 - 4 training courses/workshops
 - Articles for OIML Bulletin and APLMF quarterly newsletter
 - CEEMS – meeting, reporting and planning

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11. Quality Measurement of Agricultural Products (QMAP) WG– Mr Surachai SUNGZIKAW, Thailand

- History and membership
- Transfer of Chair
- Preparing WG members to manage and carry out future QMAP training courses – July & October
- Key Activities include monitoring activities of OIML TC17/SC 1 and TC 17/SC8
- Future focus

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Comment: Co-Chair Mr Alan JOHNSTON noted that this working group has been very active over a number of years and they have a very ambitious future direction and he commended them on that and wished them well on the success of their projects.

Comment: Training Coordinator Mrs Marian HAIRE noted although it has been said before, she commended Dr Tsuyoshi MATSUMOTO and this team for the work they have done. She noted the success of this group so far has

exceeded expectations. They have worked very hard and provided a model for the future of APLMF. Everyone applauded the QMAP Working Group.

Response: Japan/APMP Dr Toshiyuki TAKATSUJI appreciated the comments and noted NMJJ is pleased to continue to support this WG. He noted in the report the commitment to collaboration with the APMP which was also appreciated.

12. Medical Measurement WG – Ms Hui-Ling TING, Chinese Taipei

- Investigating the Regulatory System and Recognised Standards for the “Non-invasive Automated Sphygmomanometer” OIML R16-2
 - Regulatory Systems – Health Authority and Legal Metrology Authority
 - Recognised Standards – IEC 80601-2-30 and ISO 81060-5_reference

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Mr. Chen Chuan HUNG, expert from BSMI, Chinese Taipei noted that according to the IEC 80601-2-30:2018 the repeatability and reproducibility of non-invasive automated sphygmomanometer must be tested by non-invasive blood pressure simulator (NIBP simulator). This is very important, but the OIML R16-2 has only a similar requirement for repeatability not for reproducibility. In 2018-2020 an ISO/TC 121/SC 3 will discuss the ISO 81060-5 new standard: The requirement for the repeatability and reproducibility of NIBP simulators for testing non-invasive automated sphygmomanometer. In APMP Medical Device Focus Group they have a pilot study during 2018-2019 to study the ISO 81060-5 compliance methods by simulating real human blood pressure waveforms instead of artificial waveforms simulated by the commercially available NIBP simulators.

13. Report on OIML Countries and Economies with Emerging Metrology Systems (CEEMS) Advisory Group – Mr GUO Su, BIML/PR China

- CEEMS Meeting October 2018
- CEEMS web pages <https://www.oiml.org/en/structure/ceems>
- Established CEEMS logo
- Establishing an Experts database
- OIML training activities via OPTC (4)
- Carried out CEEMS needs survey
- Framework for OIML training centers
- Status of revision D 1
- Proposed revision of D 14 and D 19
- Update and Implementation of Resolution 2015/10

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Question: USA Mr Ralph RICHTER referred to the work plan for the coming year, in particular the web pages, and asked - was this a project Mr GUO was working on or are other people helping him with that?

Response: Mr GUO Su advised OIML have a small working group lead by Mr Peter MASON. He and Chris PULHAM (BIML Webmaster) will develop the structure and content for this webpage.

Question: USA Mr Ralph RICHTER also asked how the item 'Conformity to Type' was going to be carried out?

Response: Mr GUO Su advised that this item was a last-minute addition to the work plan from Mr Bill LOIZIDES (Australia) and the details are not clear yet.

Comment: President Mr Stephen O'BRIEN added, it was agreed at the recent OIML meeting that Mr LOIZIDES had a mandate to look at development of a potential framework for a Conformity to Type project. The idea was to have a look at that and report back to the CEEMS Committee with more detail around what a potential project could look like.

Comment: OIML Mr Anthony DONNELLAN added that in terms of how that study might progress, that they were also talking about how that project would interact with the appropriate Standard which is being developed for Conformity to Type. He also thanked Mr GUO for making this presentation and supported a couple of comments he made. Mr GUO, who was taking the lead on a number of CEEMS matters, gave this presentation on Mr DONNELLAN's request. He noted that a lot of the thinking and work involving CEEMS is being integrated and embedded more generally in the strategies of OIML and the Bureau. He referred to some of the CIML resolutions covered in Mr GUO's presentation, that is certainly what the Bureau has been charged with. He re-emphasised that CEEMS is an integral part of the OIML approach. He also noted this is a very useful example of where a secondment of someone like Mr GUO has worked very effectively with the Bureau and he hopes these secondments will continue.

General Items for Discussion: Mrs Marian HAIRE:

Test Procedure Surveys – Mrs HAIRE noted that earlier in the meeting we talked about surveys for the Test procedures for the NAWI Weighbridges and Prepackaged Goods. It was noted 10 responses had been received for the NAWI survey which was a good response. However, we had only received 3 completed surveys for Prepackaged Goods. She noted this test procedure was based on the new OIML R87 2016 and possibly it was a little too early for economies engaged with it. It was agreed to extend the deadline for this survey to the end of January 2019.

NAWI's e-learning module example was prepared by New Zealand for their use, and it would be repurposed for APLMF members. There was some discussion on how New Zealand had developed the module and it was agreed that a procedure would be developed to explain how to develop future e-learning modules.

In closing the meeting for the day, President Mr Stephen O'BRIEN thanked everyone for their participation and the interest shown during the meeting.

Welcome Dinner hosted by Trading Standards

Participants and guests enjoyed a walk from the Hotel to the Botanical Gardens for the Welcome Dinner held at the Illex Café and enjoyed and participated in Maori cultural entertainment provided by Ko Tane.

25th Asia-Pacific Legal Metrology Forum Meeting

14. Welcome to the Asia-Pacific Legal Metrology Forum Meetings – Thursday 8th to Friday 9th November

APLMF President, Mr Stephen O'BRIEN welcomed delegates and guests to the 25th APLMF Meeting

- Held in Christchurch, New Zealand
- Hosted by Trading Standards, Ministry of Business, Innovation and Employment
- Celebrating the milestone of 25 years
- Economy reporting
- Guest speakers
- Planning for 2019 and beyond

Mr O'BRIEN, President APLMF, welcomed APLMF delegates and distinguished guests to the opening session of the 25th APLMF Meeting in Christchurch, New Zealand. He hoped everyone enjoyed the welcome dinner and cultural entertainment provided by Ko Tane. He thanked the Trading Standards team and the APLMF Secretariat for their work in arranging the event the previous evening held in Botanical Gardens.

He noted 25 years is a significant milestone for APLMF and we can be proud of the organisation's achievements over this time. The session that morning would acknowledge the significance of this milestone with a short video message from the Minister of Commerce and Consumer Affairs within the New Zealand Government. The Honourable Kris FAAFOI also holds a number of other Ministerial posts and was unfortunately unable to attend personally but was very keen to address this important meeting.

He acknowledged Christchurch's earthquake devastation 8 years ago and the re-building programme that is still very evident around the city. He noted earthquakes are part of life on the Pacific Rim and in the Asia-Pacific Region that we all share. Our region has some unique environmental and economic challenges, but through membership and involvement in the Asia-Pacific Legal Metrology Forum, we are able to share our unique regional perspectives and ensure that our national legal metrology systems are fit for our purpose. The work being carried out during the meeting is critical for maintaining and improving the prosperity of all economies within the Asia-Pacific Region. We look to harmonise technical standards and reduce technical barriers to trade, but our real focus is the improvement of confidence in measurement and measurement accuracy. It is only through accurate measurement that our economies can effectively facilitate trade, as well as product safety and environmental protection.

He noted we ran successful training courses in legal metrology and undertook development activities, but these events need to be translated into real and tangible outcomes for member economies. As we looked back over the past 25 years, we can see great strides forward in terms of improvements made for the metrology systems in many APLMF economies. Many Asia Pacific economies have moved from old systems having weak or incomplete metrology infrastructures to new systems that represent best practice with improvements corresponding to their economic growth and the prosperity of all their citizens. With effective measurement controls in many economies, with support of their large populations, abundant resources and skilled labour, the economies are now able to effectively compete in a global marketplace in terms of quality and reliability of their products, rather than simply producing bulk commodities. APLMF's success is also reflected in the number of individuals from developing economies that have received training and returned to their economies and disseminating that outcome to others. In turn, they have become regional trainers and leaders in their specialist fields.

He noted there was still much work to be done in APLMF and the work was as relevant and important today as it had been 25 years ago. APLMF was well set up for the future and we would hopefully see another 25 years of success. We have a strategic plan in place, active work programmes such as the Metrology Enabling Developing Economies in Asia (MEDEA) and improving collaborations between the Asia Pacific Metrology Programme (APMP) and our global organisation, International Organisation of Legal Metrology (OIML). He noted we were very fortunate on the occasion of our 25th meeting to have our founding President and Honorary Member, Mr John BIRCH with us and he acknowledged and thanked him for his ongoing valuable contributions.

15. Address on formation and progress of APLMF over 25 years – Honorary Member Mr John BIRCH

- Events from 1989 to 1994 leading to the formation of APLMF
- APLMF formed 1994 and elected Mr John Birch as President
- Mr Birch has continued to support the Forum and attended all meetings

Download: [Speech](#)

16. 25 year history video presentation was shown and is available on the APLMF Website

Download: [25th History Video Presentation](#)

17. Host Welcome – Mr Jim ROBINSON, Trade and International, MBIE

- Welcomed delegates and guests to the 25th APLMF and to New Zealand
- The APLMF meetings provide unique opportunity to share best practice
- Acknowledged the important work of APLMF that was undertaken for protecting consumers and enabling a level playing field to reduce technical barriers to international trade
- Legal Metrology essential to support economic/personal wellbeing for the approx. 3 billion people living in APLMF member economies
- Well-functioning societies rely on accuracy and transparency in measurements and regulations

He wished the Forum well for its discussions and deliberations over the next two days and looked forward to the opportunity to meet and talk with delegates at that evening's dinner event.

Mr O'BRIEN thanked Mr ROBINSON for his address and on behalf of APLMF, he noted our appreciation to the New Zealand Ministry of Business Innovation and Employment for hosting these important regional meetings.

Download: [Introduction to MBIE U-Tube Video](#)

Mr Stephen O'BRIEN noted that many of the goals of his Ministry do involve measurement supported by measurement accuracy and the nation relies on the accuracy that this Forum is responsible for.

18. Official Photograph



Full Members: Australia, Cambodia, Canada, PR China, Indonesia, Japan, Republic of Korea, Malaysia, Mongolia, New Zealand, Chinese Taipei, Thailand, USA and Vietnam, members of the Secretariat

Guests/Observers: APLAC, APMP, OIML, PTB and Honorary Member Mr John Birch

Members not represented: Brunei Darussalam, Hong Kong China, Papua New Guinea, Philippines and Singapore

19. Trading Standards: Risk Based Enforcement – Mr Martin RUSHSTON, MBIE

- Profile of New Zealand and the role of Ministry of Business Innovation and Employment
- Focussing Regulatory Effort and Resources
- The Role of Trading Standards in New Zealand
 - Legal Metrology
 - Fuel Quality Monitoring
 - Product Safety

Download: [Presentation](#)

20. APLMF 2018 Work Programme and Secretariat Activities – Mr Stephen O'BRIEN

- Membership Updates
- Website development
- Members' Directories
- Quarterly Newsletter
- Supporting Training including development of e-learning modules

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25th APLMF Minutes Final –Wednesday, 31 July 2019

- Raising Awareness in Metrology – Portal website development
- Working relationships with international and regional metrology organisations

Download: [Report](#) Download: [Presentation](#)

21. Economy Poster Sessions

All 14 economies attending presented the highlights from their economy reports in poster form

- 5 poster sessions - 3 posters at each session
- Poster owner spends a couple of minutes introducing their poster
- Delegates are split across the 3 posters and have 5 minutes to ask questions and discuss and then move to the next poster
- Delegates are encouraged to continue their conversations during the breaks

Note: All economy reports and posters can be viewed on the [25th APLMF Meeting webpage](#)



Mr Alan JOHNSTON Chaired the following sessions

22. International Organisation of Legal Metrology (OIML) Introduction and Overview of OIML and BIML activities – Mr Anthony DONNELLAN

Mr DONNELLAN noted his appreciation for the invitation to attend as Director Designate of the Bureau of International Legal Metrology (BIML) and to be with such an enthusiastic audience. He noted it has been a very interesting process to watch over the last day or so.

He noted this was his second APLMF, having represented Australia in Japan in 2016. He conveyed the apologies of Dr Roman SCHWARTZ, President, OIML and Mr Stephen PATORAY, current Director of BIML both of whom unfortunately couldn't attend but they passed on their best wishes for a very good meeting.

- OIML Membership (62 Full Member States, 64 Corresponding Members and one corresponding member organisation)
- 53rd CIML Meeting (2018) and Resolutions
- Staff changes
- New OIML Certification System (OIML-CS)
- Countries and Economies with Emerging Metrology Systems (CEEMS)
- Current Priorities

- Technical Work
- Future Direction
- Task Group for 2023

In closing Anthony recognised the excellent work done by his predecessor Mr Stephen PATORAY, in promoting the work of the OIML, BIML and also the APLMF. He commented on a briefing over the last months in Paris and Hamburg, that Mr PATORAY had been a very strong supporter of the APLMF and had participated in most of the Forum meetings and he looked forward to continuing this relationship. He also noted that BIML greatly looked forward to technical papers from APLMF member economies both to the APLMF newsletters and to the quarterly OIML Bulletins. He relied on the member economies for producing technical articles and conference reports.

He also noted he was happy to have detailed discussions about the process for OIML membership with any of the attendee economies which were not an OIML full member state.

Download: [Presentation](#)

Question: Training Coordinator Mrs Marian HAIRE noted there had been a lot of talk about CEEMS over the last couple of days and the OPTC (OIML Pilot Training Centre) and asked what the interaction was between OPTC and CEEMS? Are they two different things or does the OPTC work for CEEMS?

Response: BIML Director Designate Mr Anthony DONNELLAN noted that the question was very relevant to a number of the discussions in OIML in terms of the training where a number of member states attend. He was looking at the needs and interaction with that training of APLMF. He would like to see some complementary scheme in terms of the works conducted by both organisations through the CEEMS programme and OIML Training Centre (he noted the 'P for Pilot has now been dropped and it should be abbreviated as "OTC"). He added the closer collaboration with the Regional Legal Metrology Organisation (RLMOs) to make sure the needs of economies with emerging metrology systems are met. In terms of the interaction Marian raised, between the OTC and CEEMS, he asked Mr GUO Su to comment, as he has a bit more history in this space. Mr GUO added it was under a process of evolution for these two entities and OIML is always keen to hear ideas or proposals in how things can work better.

Comment: BIML Mr GUO Su noted that CEEMS was an idea since 2013 when the CEEMS advisory group (AG) was established and its terms of reference were identified in 2014 and in 2017 CEEMS AG has formally become an advisory group under OIML. Several activities were conducted within CEEMS since 2016. PR China had established the first OIML Pilot Training Centre which was to conduct the activities under CEEMS for example, the training and seminars to meet the most common interests as identified from member countries. From 2016, several joint activities have been conducted by OPTC with OIML and APLMF, for example, a training course on NAWI and a Seminar on Metrology Control System, in 2016 and a seminar on OIML-CS, a MEDEA training course on Weigh Bridges and a training course on Prepackaged Goods in 2017. For the other regions, for example in 2017 in Kenya, they have conducted similar activities of OPTC but funded by BIML and PTB jointly. In 2018 also in Cuba, there were similar OPTC activities, funded by PTB. All the training and seminars in PR China were funded by PR China.

Question: Training Coordinator Mrs Marian HAIRE noted the issue of funding. She noted she had two areas of concern, one is that APLMF has had a very strong influence in delivering training in this Region and the OTC/OPTC has been set up for this Region, so she thought it was important that we are not competing against each other, rather, what we do is complimentary and there should be discussion through APLMF. She wasn't sure whether that was appropriate from OIML's perspective, but it would be unfortunate to see duplication of training programmes. The second area; is there funding through the OTC for economies to participate in training? Currently APLMF is pretty

indebted to PTB and the MEDEA Project to deliver our training, have we got another source of funding that we should be using and if so, how do we access it?

Response: BIML Mr GUO Su advised from his point of view that cooperation between OTC and APLMF is necessary. We do not need a duplication of training courses, although often the titles will be similar. We don't have to worry about that because in the OTC training courses, about half of the participants are from our Region, but they also have participants from Africa, Middle East and Europe. In the future, he proposed us sharing our working plans to avoid duplication. In regards to funding, PR China support all the costs in PR China (e.g. hotel accommodation, the training venue, food, local transportation etc.), but not the participant's international travel.

Comment: Training Coordinator Mrs Marian HAIRE thanked Mr GUO for this information and asked who are the APLMF's representatives on CEEMS? Who on that group has the responsibility to represent APLMF and how do our members get the information, about what CEEMS would achieve on their behalf?

Response: Mr BIML Mr GUO Su advised that the APLMF representative on CEEMS is Mr Phil SORRELL from New Zealand. Mr GUO thanked Mrs HAIRE for her interest in OIML CEEMS activities and noted as proposed in his working group's scope that he could also provide a link between OIML-CS and APLMF if that is useful.

Comment: Mrs HAIRE noted that we need a process from this group, to provide information from APLMF to CEEMS via Mr SORRELL. She also noted that we will see what the CEEMS activities are, so that will be made clear, but what is important is the economies' need to know what is available in CEEMS. There is an OIML fund attached to the CEEMS projects, so there is a resource there that developing economies can access in order to be involved in the projects.

Comment/Question: USA Mr Ralph RICHTER noted that Mr GUO talked about a CEEMS survey on developing economy's needs. He noted it would have also been beneficial in the survey to talk to the RLMOs and see if they can help to increase the participation in the survey. He noted several economies attending the APLMF meeting would greatly benefit from the work that is being put into the CEEMS and maybe in some cases, they are not realising that the benefits are directed to them. He asked Mr GUO if he could talk about the survey itself and the results.

Response: BIML Mr GUO Su noted the CEEMS survey results compiled to date were provided in his presentation on Wednesday. He noted 28 economies had replied to date and they showed priorities for OIML D31, R49, R117 and OIML-CS. This was a continuing work, so he would still collect more replies to the survey from other economies, and he undertook to remind economies who have not yet responded. After the reminder he would compile an updated report.

Mr JOHNSTON thanked Mr DONNELLAN for his presentation, wished him all the best in his new role, and thanked members for their input into discussions.

23. Asia Pacific Metrology Programme (APMP) Updates – Dr Toshiyuki TAKATSUJI

- Membership
- Governance
- Strategic Activities
- Supporting Developing Economies
- Proposed solutions to address issues related to APMP Guideline 'Use of Routine Calibration Services'
- Next APMP General Assembly and related Meetings to be held in Sentosa, Singapore 23-30 Nov 2018

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Download: [Presentation](#)

Comment: Honorary Member Mr John BIRCH noted that the Republic of Korea is leading APMP's work on climate change and asked what the focus of that work is.

Response: APMP Chair, Dr Toshiyuki TAKATSUJI noted the title of the focus group is 'Climate Change and Clean Air'. To date the activity is limited just to clean air and the research is around analysis of the air quality, which is an important factor for the climate change. Our final objective is to contribute to the mitigation of the effect from climate change.

24. Physikalisch-Technische Bundesanstalt (PTB) – Overview of activities – Dr Sabine GREINER

- Organisation overview
- International Cooperation
- Development of the PTB Project Approach
- Promoting Regional Cooperation in Metrology (MEDEA)
- Strengthening Accreditation Networks in Asia Pacific (SANAP)
- Improving Quality Infrastructure in ASEAN

Download: [Presentation](#)

Question: Honorary Member Mr John BIRCH asked whether there is a legal metrology component in the SAARC (South Asia Association for Regional Cooperation) programme?

Response: PTB Dr Sabine GREINER confirmed this programme does not have a legal metrology focus, but in the SEM (SAARC Electricity Market) project, there is a legal metrology component.

25. Asia Pacific Laboratory Accreditation Cooperation (APLAC) - Mr Michael FRASER

- Focus for 2018
- Membership
- 24th APLAC General Assembly – Kyoto, Japan, June 2018
- Training
- Future Focus

Note: APLAC and PAC will become one organisation 'Asia Pacific Accreditation Cooperation' (APAC) from 1 January 2019.

Download: [Presentation](#)

Question: Honorary Member Mr John BIRCH asked if South Africa was a member of APLAC.

Response: APLAC Mr Michael Fraser advised South Africa is a member of African Regional Accreditation Cooperation (AFRAC) and also a part of the Southern African Development Community Cooperation in Accreditation (SADCA). They have been an ILAC affiliated member for some time.

26. Association of South East Asian Nations (ASEAN) – Mr KHLAUT Ousa – Cambodia

- Overview of ASEAN Consultative Committee on Standards and Quality – Working Group 3 on Legal Metrology (ACCSQ WG3)
- Key Objectives of establishing the Working Group
- Quantity Mark System for Pre-packaged Products
- Capability building and technical assistance to strengthen legal metrology
- Cooperation with PTB – joint activities 2018-2021 between WG3 and EGM (Expert Group on Metrology) of ASEAN

Link to: [ASEAN Guideline of Type Approval Control](#)

27. 2019 APLMF Secretariat and Working Group Work Programmes – Mrs Marian HAIRE

- Planning smooth transition to next Presidency/Secretariat Host in 2019-2020
- Continue developing APLMF website including updated Economy Directories
- Continue supporting MEDEA training courses and developing e-learning modules
- Continue strengthening working relationships with other international and regional metrology organisations
- Continue transitioning working groups to new model
- Seeking nominations for OIML Award ‘Achievements in Legal Metrology in Developing Economies’

Download: [Presentation](#)

In closing the meeting for the day, President Mr Stephen O’BRIEN thanked everyone for their participation and the interest shown during the meeting. He acknowledged the Minister Hon Kris FAAFOI for his video address, Mr Jim ROBINSON from our host MBIE and the special address from Honorary Member Mr John BIRCH, who has attended all 25 meetings and provided support and expertise to the Forum. He noted the quality and effort that had gone into the economy posters and the information shared clearly showed the impressive level of activity in each economy. He acknowledged the Specialist Regional Body’s reports from APLAC, APMP and ASEAN. We talked quite a bit about coordination with other regional bodies which would help forming the quality infrastructure in the Region. He also acknowledged the input from the BIML and PTB. He also thanked Mr Alan JOHNSTON who co-chaired the day’s meeting. It was evident that we have achieved a lot over the last 25 years and that we have identified a lot of work to be carried out over the next 25 years.

Farewell Dinner

Delegates were taken on a short bus trip to Hinton's Winery, where they were able to wander around the garden and vineyard before enjoying a BBQ. Presentations were made to Honorary Member, Mr John Birch and Mr Alan Johnston

28. Member Only Session – Mr Stephen O'BRIEN

Minutes of Section 28 of the meeting can be found on the [member only area of the website](#)

28.1 Roll Call

28.2 Proposed APLMF/PTB Memorandum of Understanding

28.3 Transition of Presidency/Secretariat to a new economy in 2019

28.4 Membership Fees

28.5 Membership Status changes

28.6 Interim Financial Report Jan – Sep 2018

28.7 Proposal to review the Memorandum of Understanding and Rules of Procedure

28.8 Working Group Structure and appointments

28.9 Executive Committee appointments

28.10 Confirmation of 2019 Work Programme

28.11...Proposed 2019 Budget

28.12 Strategic Plan 2017-2021 – Review in 2019

29. Other Business – Open Session

- 26th APLMF & WG meetings to be held in Vietnam early November 2019 – dates to be advised once we can confirm the APMP meetings to ensure there is no clash. It was noted next year's OIML Meetings were being held in Bratislava, Slovakia (21-25 October 2019).

Mr O'BRIEN noted we were in positive discussions with Vietnam to host the 26th meeting and were awaiting ministerial approval in anticipation. We looked forward to working with Vietnam as host of the next meeting.

Mr TRAN Van Vinh, Director General, STAMEQ, Vietnam confirmed they were awaiting final approval to host the 26th meeting in Vietnam in 2019.

- Call for host for 27th APLMF in 2020

Mr O'BRIEN noted he had had discussions with a couple of economies who are interested and will go back to their ministries for support. It is important that we have hosts confirmed two years in advance. For the last couple of years, we have been trying to organise meetings with sufficient lead in times, and we need to give members the maximum amount of time to seek permissions to travel.

Mr GUO Su, SAMR, PR China advised that PR China would consider hosting an APLMF alongside the CIML Meeting and OIML Conference in 2021. But they needed to have discussions as to whether they can get support to host these meetings.

Mr O'BRIEN advised he would circulate in the next newsletter a list of all economies who have hosted APLMF meetings. The list would include a total number of economies who have hosted 3 times e.g. Japan, New Zealand, and a number who have hosted twice. He asked economies to review this list and consider whether they would be in a position to host a future meeting. On behalf of the Secretariat, good support has been provided by the host economies and we are keen for all economies to share the hosting responsibility. He noted there are benefits for host economies, e.g. opportunity for greater involvement of staff to attend. Involvement at Ministerial level, while opening the meeting, provides increased awareness of the work of APLMF and legal metrology that plays a critical role in your economies.

Ms Alli SMITH asked those economies who have yet to update their Directory to work on these in 2019. Since taking on the Secretariat, we have been working away trying to get the directories updated. Most were last updated in 2003 or 2006, so not very useful. It was noted, one of the big achievements in the early days of APLMF was to develop the Directories to provide information both to the metrology community but also to the wider public. To date we have about half updated over the last 3 years. She noted that it would please her greatly, if the Secretariat could be transferred at the end of 2019 with an updated set of directories. For many economies, this work shouldn't be too onerous. She provides a word version of the current directory, so it is a matter of updating the information. For those without a current directory, we provide a word template.

30. Closing Remarks

Mr Alan JOHNSTON, Co-Chair, noted in closing that from his perspective, it had been an excellent meeting. He noted the level of engagement has been very good. He had been concerned that we wouldn't get enough volunteers for the working groups, but the response has exceeded expectations and the new structure of working groups bodes very well for the future of the organisation. The discussions regarding fees we had earlier in the day, indicated a maturity in the organisation and recognised that the members have committed to the future of the organisation, although these discussions can be difficult and nobody likes the fees to be increased.

He noted he loved the poster sessions, they were interactive in smaller groups and delegates seemed much more comfortable in engaging, discussing, asking questions and sharing experience. He saw these sessions as being far more useful than the previous form, simply reading out the Economy Reports. He encouraged the Forum to continue to look for interactive ways to engage the members.

He noted as a result of the meeting that a very ambitious work agenda has been committed to and he wished the Forum all the best in the future for achieving these goals. He thought the Forum was in good hands and he noted he had very much enjoyed the many years he had been involved with APLMF. He would move on with some regret, although he had some interesting projects still involved with legal metrology.

Mr O'BRIEN noted Mr JOHNSTON is still involved in the MEDEA 2 project as a coach, so we will continue to work with him in the future.

Mr O'BRIEN in closing noted that we took the opportunity in our opening ceremony to review the last 25 years, with our video over-view. It is available on the website, so you can view it again and share with your colleagues. He reiterated a great deal has been achieved since the formation of APLMF. He commented that it is not just about people attending training courses, it is about people learning skills, taking them back to their economy and becoming trainers, resulting in improvement in performance and prosperity in their economies. Within our Asia Pacific Region, we have some really good examples of economies that have really changed over the 25 years, moving from a situation selling bulk commodities to an advanced status competing in the international market on quality and innovation with value-added products.

He thought the next 25 years was looking good, with our ambitious work programme including the challenging on-line training modules which is really important for the future development of legal metrology in our Region. There are also some really good initiatives coming up regarding the cooperation with APMP through the MEDEA project.

As the Host, he thanked everyone for coming to New Zealand. He acknowledged it is a long journey for most delegates and he wished everyone safe travel home. He thanked and the team from Multi-Media for their professional support. He thanked Mr Mark JONES and Mr Ben AITKEN from the Trading Standards team based in Christchurch for their support in hosting. He also thanked the staff at Rydges Latimer Conference Hotel who have provided professional service with sustenance and refreshments throughout the meeting. He thanked the Secretariat, Ms Alli SMITH and Mrs Marian HAIRE who have done a lot of work to make this meeting a success. He would also be reporting back to the Minister, Honourable Kris FAAFOI next week, as he was very interested to hear how the meeting went and he wanted on record his support for this meeting. He thanked our guests; Mr Toshiyuki TAKATSUJI, (APMP) and Mr Michael FRASER (APLAC), Dr Sabine GREINER representing the MEDEA project and Mr Anthony DONNELLAN (OIML). He noted with the changes coming up with APLAC, Mr FRASER would no longer be involved in the new organisation, but he noted his appreciation for his ability to get things done, supporting the activities of the SRB Forum and he will be missed. He wished Mr DONNELLAN well as he takes over his new role as Director of the BIML and moving his family from Australia to Paris and he appreciated the commitment to attend this meeting in support of APLMF. The relationship between APLMF and OIML is a very important one.

He also acknowledged our Honorary Member, Mr John BIRCH and Mr JOHNSTON as both members have participated in APLMF since the beginning and their continued commitment to APLMF is much appreciated.

Technical Tour – Engineering Department, Christchurch University

Christchurch University is in the top one percent of universities in the world and their Engineering Department ranked in the top 100 Civil Engineering departments worldwide. We were fortunate to secure a private tour of the Engineering Department, viewing hybrid cars, robotics and 3D printing.

Tour of International Antarctic Centre

This Centre is one of New Zealand's most diverse and dynamic tourist attractions providing a range of interactive experiences including experiencing snow and surviving an Antarctic storm. The delegates learned about Scott Base and what it takes to work on the ice and enjoyed many more attractions. They were bused the short distance from the hotel, and as it was located close to the International Airport, those flying out Friday afternoon were able to go directly to the airport.