

# Asia-Pacific Legal Metrology Forum

## Annual Report 2014

### Working Group on Quality Measurements of Agricultural Products

To be reported at the WG meetings on 10 November, 2014

#### 1. Call for host economy of a training program on grain (rice) moisture measurement

In reply to the survey from our WG, Indonesia and Thailand proposed to host training courses with a ‘self-funded’ scheme. In thanks to their proposals, two APLMF Training Courses on Traceability in Rice Moisture Measurement were conducted in Indonesia (May, 2012) and Thailand (November 2013).

Because many participants in these courses requested to continue a training program in this field, we plan to call for another host economy and clarify additional needs with the separate form “Survey on a Training Program for Grain Moisture Measurement (2014)”. Please inform any proposals or requests to WG.

With regard to funding, APLMF agreed to accept the support fund from PTB (Physikalisch-Technische Bundesanstalt) in Germany in 2013 in order to conduct training programs in legal metrology. This is a joint project among PTB, APLMF and APMP (Asia-Pacific Metrology Programme), named as “Metrology: Enabling Developing Economies within Asia (MEDEA)”. The training program for grain moisture measurement is already included in this project; therefore, there is a possibility that the training courses would be partially supported by the fund of MEDEA.

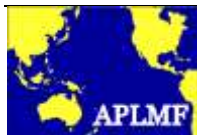
#### 2. Conducting a training course on rice moisture measurement in Thailand in 2013

With dedicated support of CBWM (Central Bureau of Weights and Measures) in Thailand, a training course was conducted in Chiang Mai (Thailand) on 25-29 November, 2013 (see separate report). NMIJ (National Metrology Institute of Japan) and Kett Electric Laboratory Co. Ltd. provided five trainers for this program, and 32 trainees from seven economies (CN, ID, KH, MY, TH, TW and VN) attended.

#### 3. Drafting of a new APLMF Guide Document on Grain Moisture Measurement

The WG has provided an outline of a new “*APLMF Guide Document on Grain Moisture Measurement*” at the 20<sup>th</sup> Forum Meeting in 2013. The working draft (WD) document is

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under development in order to provide practical procedures to calibrate, verify and test grain moisture meters, which are not covered by the OIML recommendations or ISO documents. Materials used in the previous training courses on rice moisture measurement will be used as the base material of this guide document.

### 4. Contributing to OIML TC 17

The WG continuously monitored the activities of OIML TC 17/SC 1 (Humidity) and TC 17/SC 8 (Instruments for quality analysis of agricultural products) in regard to the two documents (OIML recommendations) shown below.

**(1) TC 17/SC 1 R 59 "Moisture Meters for Cereal Grains and Oilseeds (1984)":**

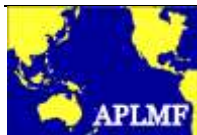
Discussion to revise the present recommendation is under progress by the joint secretariat in USA and PR China. CD6 (6th committee draft) of R59 was sent to the P members of SC1 in March, 2013. Discussion on the CD6 took place at the SC1 meeting in USA in July, 2013. Next CD has not been proposed after this meeting.

**(2) TC 17/SC 8 on "Protein Measuring Instruments for Cereal Grains and Oilseeds (New)":**

Discussion to draft a new recommendation is under progress by the secretariat in Australia. Discussion on CD4 took place at the SC 8 meeting in USA in July, 2013. After this meeting, CD5 was sent to the P members of SC8 in August, 2014 (deadline of reply: 15 November). The chairperson is preparing comments on CD5.

### 5. Monitoring activity on BIPM and APMP on rice moisture measurement, and others

In cooperation with BIPM and APMP, the WG informed NMIJ delegates attending their meetings the activities of the WG including training courses. The WG continuously exchanged information between the researchers in NMIJ about a new measurement method for grain moisture content using electromagnetic wave. In Japan, the WG chair attended a domestic mirror committee to OIML TC17 and exchanged information between the manufacturers of moisture meters and protein measuring instruments.



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## 2015 Work Plan

### Working Group on Quality Measurements of Agricultural Products

To be reported at the WG meetings on 10 November, 2014

#### 1. Planning next training program on grain moisture measurement and calling for another host economy

The WG will continue to calling for host economy of a training program on grain moisture measurement under the new scheme (MEDEA). The host economy for 2015 should ideally be different from the economy which hosted the 2013 program in order to give an even chance of participation to the other member economies. A survey for next training program is attached to this document with a deadline on 27 February, 2015.

#### 2. Drafting of a new APLMF Guide Document on Grain Moisture Measurement

The WG continue to drafting the new “APLMF Guide Document on Grain Moisture Measurement” in cooperation with WG on Training Coordination and WG on Metrological Control System. A working draft (WD) should be proposed and circulated in early 2015.

#### 3. Contributing to the OIML TC 17

The WG continue to contribute to OIML TC 17/SC 1 and TC 17/SC 8 by sending delegates to their meetings. The WG also aims to contribute to harmonize between the activities of the two Subcommittees of OIML and APLMF in agricultural measurements.

#### 5. Monitoring activities of BIPM and APMP on grain moisture measurement

The WG continues to monitor activities in scientific metrology including BIPM and APMP, in regard to the traceability and uncertainty in grain moisture measurements. These organizations recognize the importance of grain moisture measurement as an important application of scientific metrology.

#### 6. Supporting of training course on flow measurement

Although this is not included in the scope of the WG, the chairperson will support a new APLMF training course “**Verification of Bulk Flow Meters for Petrol and Diesel.**” It is proposed by Japan to be conducted under the MEDEA Project in 2015 or later. The city of Yokohama near Tokyo is selected for the venue. The WG supports this project because the chairperson is also responsible for the secretariat of OIML TC 8 (measurement of quantities of fluids).