



# Asia-Pacific Legal Metrology Forum

## APLMF Eighteenth Meeting Minutes

Sept. 5 – 8, 2011

The Westin Chosun Busan, Republic of Korea

### 18<sup>th</sup> Asia-Pacific Legal Metrology Forum Meeting

Sept. 5 – 8, 2011

Hosted by the Korea Agency for Technology and Standards (KATS), the 18<sup>th</sup> APLMF working group meeting and forum meeting were held from Sept. 5 through Sept. 8, 2011 at the Westin Chosun Busan, Republic of Korea. The Meetings were attended by delegates from full member economies and representatives of the international and regional organizations.



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## 1. List of Participants

### 1.1. Table 1-1 Hosts

<b>Republic of Korea</b>	Mr. Kyung Huh	Korea Agency for Technology and Standards
	Mr. Dongho Kim	Korea Agency for Technology and Standards
	Mr. Namhyuk Lim	Korea Agency for Technology and Standards
	Ms. Ellie J Hur	Korea Agency for Technology and Standards
	Ms. Esthel Lee	Korea Association of Standards and Testing Organizations
	Mr. Sanghun Jwa	Korea Association of Standards and Testing Organizations
	Mr. Kwang Min Park	Korea Testing Certification
	Ms. Soo Jin Hwang	Korea Testing Certification
	Ms. Tae Jin Hwang	Korea Testing Certification
	Ms. Oh Yong Kwon	Korea Testing Certification

### 1.2. Table 1-2 President and Secretariat

<b>President</b>	Mr. PU Changcheng	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
<b>Honorary President</b>	Mr. Dongho Kim	Korea Agency for Technology and Standards



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<b>Secretary</b>	Ms. ZHENG Huaxin	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
<b>Secretary</b>	Dr. ZHANG Chao	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
<b>Secretary</b>	Mr. GUO Su	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)

### 1.3. Table 1-3 Full Member Economies

<b>Australia</b>	Dr. Graham Harvey	National Measurement Institute Australia (NMIA)
<b>Australia</b>	Mrs. Marian Haire	National Measurement Institute Australia (NMIA)
<b>Canada</b>	Mr. Alan Johnston	Measurement Canada / Organization Internationale de Metrologie Legale (OIML)
<b>People's Republic of China</b>	Mrs. KONG Xiaokang	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
<b>People's Republic of China</b>	Mr. LIU Xinmin	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
<b>People's Republic of China</b>	Mr. HAN Jianping	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
<b>People's Republic of China</b>	Mr. DU Yuejun	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
<b>Indonesia</b>	Mr. Rifan Ardianto	Directorate of Metrology



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<b>Indonesia</b>	Mr. Sugiyarto	Directorate of Consumer Affairs
<b>Indonesia</b>	Mr. Achmad Hadian	Directorate of Metrology
<b>Indonesia</b>	Mr. Deden Muhammad FS	Metrology Training Center
<b>Indonesia</b>	Mr. Permadi	Metrology Training Center
<b>Japan</b>	Mr. Yuichi Nagami	Ministry of Economy, Trade and Industry (METI)
<b>Japan</b>	Dr. Yukinobu Miki	National Metrology Institute of Japan (NMIJ), AIST
<b>Japan</b>	Mr. Kazuo Neda	National Metrology Institute of Japan (NMIJ), AIST
<b>Japan</b>	Dr. Akira Ooiwa	National Metrology Institute of Japan (NMIJ), AIST
<b>Japan</b>	Dr. Tsuyoshi Matsumoto	National Metrology Institute of Japan (NMIJ), AIST
<b>Republic of Korea</b>	Mr. Singkil Kim	Korea Association of Standards and Testing Organizations
<b>Republic of Korea</b>	Mr. Myoung Soo Kim	Korea Research Institute of Standards and Science
<b>Republic of Korea</b>	Dr. Yoon Soo Sim	Korea Testing Certification
<b>Republic of Korea</b>	Mr. Namhyuk Lim	Korea Agency for Technology and Standards
<b>Malaysia</b>	Mr. KHALID TIK	Ministry Of Domestic Trade, Co-Operatives And Consumerism Malaysia



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<b>Malaysia</b>	Mr. AZMAN ADAM	Ministry Of Domestic Trade, Co-Operatives And Consumerism Malaysia
<b>Malaysia</b>	Dr. Wan Abd Malik Wan Mohamed	Technical Services and Metrology Advisory Section, National Measurement Standard laboratory (SIRIM Berhad)
<b>New Zealand</b>	Mr. Brian Waltham	Measurement and Product Safety Service, Ministry of Consumer Affairs
<b>Papua New Guinea</b>	Mr. Victor Gabi	National Institute of Standards and Industrial Technology
<b>Philippines</b>	Mr. Rodrigo B. Dacuyan	ITDI-DOST
<b>Singapore</b>	Ms. Lena Soh	SPRING Singapore
<b>Singapore</b>	Mr. Lim Yong Seng	SPRING Singapore
<b>Chinese Taipei</b>	Mr. Brian C.S. Shu	Bureau of Standards, Metrology and Inspection (BSMI)
<b>Chinese Taipei</b>	Mr. Jin-Hai Yang	Bureau of Standards, Metrology and Inspection (BSMI)
<b>Thailand</b>	Mr. Koranee Thanomkul	Central Bureau of Weights and Measures
<b>Thailand</b>	Mr. Jarin Suttharak	Central Bureau of Weights and Measures
<b>Thailand</b>	Ms. Pattaraporn Surasit	Central Bureau of Weights and Measures
<b>Thailand</b>	Ms. Sakchai Hasamin	Central Bureau of Weights and Measures



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<b>Thailand</b>	Ms. Wichai Ko-Udomvit	Central Bureau of Weights and Measures
<b>United States of America</b>	Dr. Charles Ehrlich	National Institute of Standards and Technology (NIST)
<b>United States of America</b>	Mr. Ralph Richterl	National Institute of Standards and Technology (NIST)
<b>Viet Nam</b>	Mr. Tran Van Vinh	Directorate for Standards and Quality (STAMEQ)
<b>Viet Nam</b>	Mr. Nguyen Hung Diep	Directorate for Standards and Quality (STAMEQ)

### 1.4. Table 1- 4 International / Regional Organizations

<b>BIML</b>	Mr. Stephen PATORAY (USA)
<b>APMP</b>	Dr. Yukinobu Miki (Japan)
<b>ASEAN Consultative Committee for Standards and Quality (ACCSQ)</b>	Dr. Wan Abd Malik Wan Mohamed (Mozambique)

### 1.5. Table 1- 5 Observers

<b>Korea Association of Standards and Testing Organizations</b>	Mr. Byung-Soo Youn
<b>Korea Research Institute of Standards and Science</b>	Dr. Kee Hoon Kang
<b>Korea Research Institute of Standards and Science</b>	Dr. Jong Oh Choi
<b>Korea Testing Certification</b>	Mr. Sung Wook Kim
<b>Korea Testing Certification</b>	Mr. Young-Mun Kweon





### **2. Working Group meeting (9 am – 5 pm, Sept. 6, 2011)**

The WG meeting was held on Sept. 6. 2011. Two APLMF WG Chairs, Dr. Charles Ehrlich (WG on Mutual Recognition Arrangements) and Mr. Brian C.S. Shu (WG on Medical Measurement) were in charge of this meeting. The agenda of this meeting included reports from 7 WGs of APLMF and the discussion on APLMF Training/ Seminar proposals.

#### **2.1. WG on Training Coordination**

Mrs. Marian Haire, the Chair person of this WG, reviewed training activities since the 17<sup>th</sup> APLMF forum meeting.

She firstly introduced two scheduled training course/workshop to be delivered in 2012.

- i) A case study and workshop that examines significant recent improvements in the measurement and custody transfer of bunker fuel in Singapore in March 2012.
- ii) A “train-the-trainer” course on verification of in-line (pipe line) turbine or positive displacement metering systems used for hydrocarbon products in the bulk fuel supply chain in Thailand in June or July in 2012.

The second part of her report was to summarize the feedbacks of the survey sent by the Secretariat to determine what training would be required for the forthcoming APEC funding application. Only a few economies responded to the request for their training needs.

Also in the report of WG on Training Coordination, Marian gave the detail explanation on procedures and key points to apply the APEC-funded project.



### **2.2. WG on Goods Packed by Measure**

Mr. Waltham summarized the progress made on the work program of the WG in 2011.

#### 1. Register of Contacts for Goods Packed by Measure within APLMF

A contact list has been maintained of the 23 APLMF economies listed from within the Asia-Pacific region and also 3 regional metrology organizations.

#### 2. Survey of APLMF Member Economies on their current legislation for Goods Packed by Measure.

The survey questionnaire that was sent out to all APLMF full member and corresponding member economies in April 2008, the returned information has now been collated and was forwarded to the secretariat in July 2011, so it would be uploaded onto the APLMF website soon.

#### 3. Collaboration and report on the work of OIML Technical Committee 6 (TC6) – Pre-packaged Products.

The meeting of OIML TC 6 Pre-packaged products was to be held 26 – 30 September 2011, at National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, USA.

### **2.3. WG on Utility Meters**

Mr. Alan Johnston, on behalf of the chair of this WG, Mr. Gilles Vinet, gave the summary report of activities since last forum meeting in 2010. He reported there was no APLMF training delivered for utility meters in 2011. In terms of OIML activities, he updated the OIML TC 12 meeting held in June 2011 and other OIML Technical Committee work including OIML TC 12 on R46 (electricity meters) , TC 8/SC5 on R49 (water meters) and TC8/SC7 on natural gas meters and TC3/SC4



on Sampling Plan/Statistical Methods.

The action plan of this WG for the year 2012 was proposed to APLMF members as follows:

1. Develop/organize training as per APLMF agreed-to training plan
2. Update Utility Meters Survey information
3. Follow OIML work related to utility meters and inform APLMF members

### **2.4. WG on Mutual Recognition Arrangements**

Dr. Charles Ehrlich, the chair, presented four work items in 2010-2011.

1. To continue supporting the OIML work on implementation of Mutual Acceptance Arrangement (MAA) and not to develop a regional MAA.
2. To contribute an OIML MAA implementation update report to the APLMF Circular.
3. Issue a Preliminary Questionnaire to the Members about Type Evaluation in their Economies, with a view towards another Questionnaire about their participation in the OIML MAA.

Working Group on Mutual Recognition Arrangements would continue to carry out the activities mentioned above in 2012.

### **2.5. WG on Medical Measurement**

Mr. Brian Shu, the Chair, gave a comprehensive presentation on Medical Devices Control. It included:

1. Medical Regulatory Control
2. Comparison with legal metrology control
3. Complementary control



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The 2012 action plan of this WG is as follows:

- update surveys;
- Based on surveys, further study on complementary control of medical device;
- Discuss with Working Group on Metrological Control System to explore any possibility to draft a guideline of complementary control on Medical Device;
- Explore any possibility to hold a training course in future for Infrared Ear Thermometer based on previous survey.

### **2.6. WG on Quality Measurement of Agricultural Products**

Dr. Tsuyoshi Matsumoto, the chair, reported the activities since last forum meeting.

To know member economies' needs, the secretariat sent a "Survey on a Training Program for Grain Moisture Measurement" to the member economies on 9 June 2011. Two economies however showed a strong concern of continuing the training programs in this field. In addition, one economy mentioned information about the expression of uncertainty and OIML activities as a need.

He also updated activities of OIML TC17/SC1 and TC17/SC8 on (1) TC17/SC1 R92 "Wood-Moisture Meters - Verification Methods and Equipment: General Provisions (1989)"; (2) TC17/SC1 R59 "Moisture Meters for Cereal Grains and Oilseeds (1984)": and (3) TC17/SC8 New Recommendation on "Protein Measuring Instruments for Cereal Grains and Oilseeds".

2012 WG activity plan:

1. Planning of the future training programs



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In 2012, the WG will continue to carry out a training program on grain moisture attended by Japanese trainers. The host will be Indonesia.

### 2. Contribution to the OIML TC17

The WG as well as Japan aims to contribute OIML TC17/SC1 and SC8 by dispatching delegates to their meetings. The WG also aims to contribute to harmonize between the activities of the OIML TC/SCs and APLMF in agricultural measurements.

### 3. Discussion on the development of protocol of international comparison

The international comparison of rice moisture meters is still requested by the member economies. It is necessary to develop a protocol for international comparison since metrological control on grain moisture meters is different among member economies. The WG will continue a discussion to find out a possibility to develop the protocol for a future intercomparison in the member economies in contact with the experts in this field.

### **2.7. WG on Metrological control systems**

Mr. Han Jianping, on behalf of Mr. Yang Youtao, the chair, reported the progress of WG in 2011. His report included following three aspects:

1. Completion of three APLMF guidelines
2. Questionnaire about the Comments for Working Group on Metrological Control System
3. Seeking possibility of cooperation with the APLMF secretariat for organizing the workshop on metrological control systems.

The proposed action plan in 2012 included proposing to organize a workshop on the metrological control system and workshop on software controlled measuring



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instruments, particularly in some special measuring instrument (i.e. software verification of fuel dispensers) at the appropriate timing.

### 2.8. APLMF Training/ Seminar proposals discussion

After discussion, APLMF proposed training program for 2012 – 2013 will be to organize and finalize the following training programs

Topic	Host	Trainers provided by	Proposed delivery	Funding Source
Rice Moisture	Indonesia	Japan	2012	Self-funded
Software examination in evaluation to type	Singapore	Japan	2013	APEC
Type approval of water meters	Thailand	Australia	2013	APEC
CNG dispensers	Vietnam	China/Korea	2013	Self-funded
Infrared ear thermometers	Chinese Taipei	Chinese Taipei	2013	Self-funded

As part of the preparation to develop an APEC concept note a survey will be conducted of all economies who attended the previous software and water meter training to determine:

- the outcomes from the previous training; and
- the future needs of these economies

In addition a Guide document looking at verification intervals will be developed. This document will make suggest verification intervals and provide reasons for the suggested intervals. Economies can then choose the intervals that best suit their circumstances.



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A working group consisting of Ralph Richter, Brian Walton, Brian Chen, Marian Haire and Secretariat will examine how APLMF can use technology to deliver training.

### **3. Forum meeting (Sept . 5 - Sept . 6, 2011)**

#### **3.1. Welcome Address by Dong-ho Kim, the Director of the Metrology and Measurement Division of KATS**

Mr. Pu Changcheng, distinguished President of the Asia-Pacific Legal Metrology Forum,

Distinguished representatives of all the countries in the Asia-Pacific region,

Ladies and gentlemen,

It's my pleasure, a great pleasure indeed, to have this chance to extend a warm welcome to everyone who has traveled from overseas to join us here in Busan.

My name is Dong-ho Kim, and I'm the Director of the Metrology and Measurement Division within the Korean Agency for Technology and Standards.

It is an honor to have been chosen as honorary Chair of the 18th meeting of the Asia-Pacific Legal Metrology Forum, and it is an honor for Korea to have been chosen as the venue.

You may remember that this is the second APLMF meeting in Korea. Korea also hosted the fifth meeting in 1995.

This event presents a wonderful opportunity to discuss issues facing the legal metrology field in the Asia-Pacific region, and I know it will be most informative and productive.

I would like to thank all the staff members who have worked hard to prepare for this meeting.



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I hope our guests will have an enjoyable and productive stay in Korea's most beautiful harbor city.

Thank you.

### **3.2. Opening Address by Mr. PU Changcheng, the APLMF President**

Distinguished Mr. Huh Kyung,

Distinguished Mr. Kim Myung-soo, Mr. Sim yoon-soo, Mr. Kim sung-sil,

Distinguished Mr. Stephen Patoray,

Ladies and Gentlemen,

Good Morning!

It gives us great pleasure to come to this beautiful city, Busan, Korea to attend the 18th APLMF forum meeting. Let me begin by thanking Mr. Huh (浩) and his colleagues of KATS for their excellent preparation and arrangement for hosting this meeting. I also wish to take this opportunity to express my warm welcome and my thanks to all of you for your participation and contribution to the forum meeting.

Since last forum meeting held in Victoria Canada, member economies, working groups, together with APLMF Secretariat have made great efforts to carry out the approved work program. Progress has been made in the terms of harmonizing technical regulation requirements among member economies, promoting member economies' capacity and strengthening the collaborations with APEC Specialists Regional Bodies and other relevant organizations. Our activities have contributed to the further development of legal metrology and enhancing the APLMF influence in the legal metrology area.

In the following one and a half days, the honorary President Mr. Kim and I will





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co-chair the forum meeting. I believe member economies will take this occasion to have the deep discussions on all topics listed in the agenda and achieve the fruitful results. I look forward to your support. Let's do a better job for the future of APLMF.

Finally, I wish the forum meeting a full success.

Thank you.

### **3.3. Roll Call**

Mr. Guo Su took a roll call of the participants. 61 delegates from 15 member economies and relevant organizations attended the meeting. They were Australia, Canada, P.R. China, Indonesia, Japan, Republic of Korea, Malaysia, New Zealand, Papua New Guinea, the Philippines, Singapore, Chinese Taipei, Thailand, USA and Viet Nam. In addition, the representatives from BIML, APMP and ASEAN ACCSQ also participated the meeting.

### **3.4. Confirmation of the report of the 16th APLMF Meetings**

The report of the 16<sup>th</sup> APLMF Meeting was approved without modification.

### **3.5. Report of the APLMF President**

Mr. Pu Changcheng, the APLMF President, gave the President's report. In his presentation, he emphasized the following challenges APLMF faces and called for solutions to them:

1. APLMF needs to solve the funding problem for APLMF training.
  - Facing the increasingly competition, APLMF have successfully secured the APEC fund to continue to carried out APLMF training programs.



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2. APLMF should respond to new challenges rising from the emerging legal metrology areas such as climate change, energy conservation, food safety and so on.

- APLMF and APMP, as two Specialist Regional Bodies on Metrology in the Asia Pacific region, will be jointly hosting an international Symposium on Metrology for Economic and Social Sustainability **on December 13-15, 2011** in Beijing (at Changping Campus of NIM, China) , which is sponsored by the General Administration of Quality supervision, Inspection and Quarantine (AQSIQ) of the Peoples' Republic of China and National Institute of Metrology, China.

3. APLMF encourages developed economies to help developing economies in improving and strengthening the legal metrology infrastructure by various flexible measures.

- Explore the various technical assistance means to help developing economies to improve the capacity building of metrology infrastructures.

4. APLMF will continue to explore the possibilities of future concrete cooperation with other international/regional bodies.

- APLMF actively keeps contact with relevant international and region organizations. For example, APLMF annually attended the APEC SRB and APEC SCSC meeting and the OIML Regional Legal Metrology Organization Round Table to report the major activities in APLMF and sharing the information.

In 2012, the key activities will be as follows:



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1. Rank the APLMF training needs in 2012 and seek funds from APEC and other resources;
2. Carry out APEC approved training project and self-funded project as well;
3. Update the APLMF Directory;
4. Continue to exchange information and share knowledge with relevant international and regional organizations.

Finally, Mr. Pu expressed his sincere appreciation to all member economies, WG Chairs and the APEC Secretariat for their long term supports and contributions to APLMF activities.

### 3.6. Report of the APLMF Secretariat

#### 3.6.1 Activity of the APLMF Secretariat

APLMF Secretary, Mr. Guo Su reported the APLMF activities conducted since the 18<sup>th</sup> APLMF Meetings.

##### 3.6.1.1 APEC Project

- ❖ Title:  
Technical Regulation Harmonization on bulk fuel trade transaction in APEC Region (CTI 17/11T )
- ❖ Total amount being sought from APEC:  
USD 69,040
- ❖ Planned Activities
  - March 6-8, 2012 , Singapore  
Workshop on Improving the Custody Transfer of Liquid Fuel in the Asia-Pacific Region
  - June, 2012 (tentatively), Thailand  
A 4-day Train-the-Trainer course on flow measurement system
  - July 2010- December 2012  
Analyze feedbacks

##### 3.6.1.2 APLMF Action Plan

<b>Training mode</b>	APEC	APLMF	IT
<b>Funding resources</b>	APEC	APLMF + Host + Other	APLMF



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<b>Training topics</b> (Priorities identified by )		APEC and APLMF	APLMF	APLMF
<b>Number of Items/year</b>		2 - 3	1	M
<b>Trainers/Speakers</b> ( preferable)		APEC	APLMF	--
<b>Participants</b>		APEC and APLMF	APLMF	APLMF
<b>Funds Sought from</b>	APEC	100%	--	--
	APLMF	--	3000 USD/ per training Subsidy to host	Network
	Host	--	Meeting package	--
	Training provider	--	Self fund	Training Material
	Participants	--	Airfare, Accommodation	Network

### 3.6.1.3 Survey

- ❖ Survey on Benchmarking
- ❖ Survey on Grain Moisture
- ❖ Survey on Training Needs
- ❖ Survey Results of Current Legislation for Goods Packed by Measure

### 3.6.1. 4 18<sup>th</sup> APLMF Meeting

- ❖ Cooperation with Host, KATS
- ❖ Program and Agenda
- ❖ Financial Issue
- ❖ APLMF 18<sup>th</sup> Website
- ❖ Invitations
- ❖ EC Topics
- ❖ Registration and Report Collected

### 3.6.1.5 Publication

- ❖ Handbook on NAWI Weighbridge Training Courses
- ❖ Handbook on Mass Flow Meter Training Course
- ❖ Handbook on Software Controlled Measurement Instruments Workshop
- ❖ APLMF Guide 1,2,3

### 3.6.1.6 Liaison

- ❖ APEC SCSC/SRBs Meeting
  - February, Washington DC, USA
  - September, San Francisco, USA
- ❖ MoU
  - APMP



- ❖ Internationals:
  - OIML
  - RLMO

### 3.6.1.7 Working Plan

- ❖ APEC Project Survey
  - Survey of workshop and training
  - Feedback analyze
  - APLMF Survey
  - Training Needs (Unified Format)
  - Directory
  - Law & Regulation
  - Website Improvement

### 3.6.1.8 APLMF-APMP Joint Symposium

- ❖ Title
  - Metrology for Economic and Social Sustainability
- ❖ Topic
  - Energy saving / Food safety / International trade / Environmental protection / Health care / Climate change / Consumer protection / Emergency response / Dialogues between governments, metrology community and industries
- ❖ Date
  - December 13-15, 2011
- ❖ Venue
  - Changping Campus, National Institute of Metrology (NIM), Beijing, China

### 3.6.2 Contact points update on APLMF member economies

- ◆ Mr. Azman Adam, Ministry Of Domestic Trade, Cooperative and Consumerism  
..... Malaysia
- ◆ Dr. Laim Kimleng , General Director of NMC / Mr. Ngil Polineavith , DoM Development and Cooperation Department  
..... Cambodia

### 3.6.3 Membership Fee

Most of member economies make the contributions in the timely manner.

### 3.7. Presentation nominated by the host economy

The host nominated presentation was given by Mr. Lim, Nam Hyuk from Korean



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Agency for Technology & Standards. The title of his presentation was **Legal Metrology Activities in Korea.**

In this presentation, the contents covered the following aspects:

1. Overview of KATS
  - i. Organization of Government
  - ii. Organization of KATS
  - iii. Mission of KATS
  - iv. Mission in Legal Metrology
2. Activities in Korea
  - i. Technical Requirement Review
    - ◆ Meter With Electronic Devices
    - ◆ Seal on Fuel Dispenser
  - ii. Measurement Instrument in Service
  - iii. Management of Prepackaged Goods
3. Future Tasks
  - ◆ Strategy Plan in Measurement
  - ◆ Information Management System

### **3.8. Working Groups Reports**

7 WG chairs reported the outcomes and 2011 work plans from the WG meeting the day before. (Please refer to the part 3. WG meetings mentioned above)

### **3.9. Report of Specialist Regional Bodies (SRBs) - Asia Pacific Metrology Programme**

On behalf of the APMP, Mr. Miki from Japan highlighted recent development in APMP.



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1. Introduction of APMP organization and structures
2. APMP activities
  - ◆ Implementation of the CIPM Mutual Recognition Arrangement (MRA) in the region
  - ◆ Supporting member economies in establishing or improving metrological capabilities
  - ◆ Promoting the technical (R&D) cooperation among the member economies and laboratories
  - ◆ Establishing and maintaining effective links with other Stakeholder Organizations (RMOs, SRBs, APEC SCSC)
3. The key new developments of APMP in 2010&2011
  - ◆ Launching of “TC Initiatives” Programs
  - ◆ Launching of APMP NMI Directors’ Workshop
  - ◆ Enhancing the ties with international & regional stakeholder organizations

### **3.10. Report of the Bureau International de Metrologie Legale (BIML)**

Mr. Patoray, the Director of BIML gave updates on OIML activities in following aspects:

1. OIML membership
2. OIML Liaisons
3. OIML Activities
  - i. Technical work
    - ◆ 108 current work projects:



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- 76 projects revising, or adding test procedures or test reports to existing publications;
- 32 projects developing completely new publications.

### ii. Outcome

- ◆ 160 current OIML publications:
  - 101 Recommendations;
  - 27 Documents;
  - 12 Basic publications;
  - 2 Vocabularies;
  - 18 Guides.

### 4. OIML Certificate System and MAA

### 5. Current activities in BIML

- OIML Directives for Technical Work (B 6)
- OIML Elements for a Law on Metrology (D 1)
- OIML MAA
- Prepackages
- OIML Conformity to Type (CTT) Seminar
- BIML Infrastructure
- OIML Financial Audit

### **3.11. Report of the ASEAN Consultative Committee for Standards and Quality on Legal Metrology (ACCSQ – WG 3)**

Dr. Wan Abd Malik Wan Mohamed (Malaysia), the Chair of ACCSQ-WG3, updated activities.

In the year of 2010 and 2011, 14th and 15th meetings were held in Ho Chi Minh city, Viet Nam and Nay Pyi Taw, Myanmar, respectively. The main topics included:

- ASEAN common requirements for pre-packaged products





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- ASEAN Quality Marking Scheme for the pre-packaged products
- Harmonization of verification procedure for Non-Automatic Weighing Instruments
- Inter-laboratory comparison of mass standards among legal metrology authorities

The 2011 meeting would be held in Oct. /Nov., 2011 in Brunei Darussalam.

### **Full Member Session**

#### **3.12. Secretariat Report**

The report of full member session was available only to the APLMF full members.

Please visit the APLMF website for this information.

#### **3.13. Economies' Reports**

##### **Australia**

Australia highlighted some major points in the economy report.

##### **1 National Trade Measurement**

- The new national trade measurement system is bedding down well.
- A regulatory Impact Statement is being prepared for new amendments to the National Trade Measurement Regulations
- Recent legal advice has confirmed that fuel dispensers used for fuel tax rebates in the mining industry are in use for trade.



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- The NMI is investigating the introduction of controls for trade waste meters.
- With the introduction of a national system of trade measurement there is greater opportunity for cooperation with Customs to intercept substandard goods at the entry point to Australia.
- The NMI is in the process of liaising with State and Territory tax meter regulators about the introduction of national metrological controls for tax meters.

### 2 Utility Metering

- A very successful TC 12 meeting was held in London in June 2011. A new draft of R46, incorporating the changes, is nearing completion.
- A Regulatory Impact Statement is being prepared for lifting the exemption for domestic electricity meters.
- Australia is in the process of adopting of R137 and publishing an Australian national standard for domestic gas meters.
- The NMI is taking part in the 3rd party (NATA) accreditation of testing facilities for large capacity irrigation meter

### 3 NMI Type Approval Facilities

- The EMC testing capability has recently been upgraded to 2.7GHz at 10V/m.

### 4 Conformity to Type



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- A CTT Seminar was held in Utrecht in June this year. The outcome was a recommendation to CIML to establish a TC initially to prepare a guidance document.

### 5 Quality Measurements

- A combined meeting of TC17/SC1 (grain moisture) and TC17/SC8 (quality measurements of agricultural products – grain protein) was held in Orlando in the week after the 2010 CIML meeting.
- The NMI has committed to adopting the R59 draft and issuing a national standard by the end of 2011.

### 6 Regulatory measurements

- The NMI made presentations at a recent police conference at which the police agreed to consider the introduction of conformity-to-type testing of evidential breath analysers (EBAs).
- In conjunction with traffic regulators, the NMI has developed a national approval standard for traffic speed cameras.

### 7 Medical measurements

- With the circulation of the working draft for the revision of R16-2 on non-invasive automated sphygmomanometers, the NMI is in the process of establishing a “mirror” committee for consulting with medical practitioners.

### 8 Training



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- NMIA have developed a process whereby they complete a recognition kit which is then assessed by trade measurement inspectors who have undergone training as assessors. Industry is responding well to this process. To date around 500 of a possible 4000 verifiers have undergone the process.
- NMI will start the process of training 30 new inspectors before 1 July 2012.

### **Cambodia**

No participant attended this meeting.

### **Canada**

Canada updated major issues in the economy report.

#### 1. Trade Sector Reviews - Defining the Desired Level of Metrological Controls and Government Intervention Required by Canadians

Measurement Canada has completed the review of the following 21 sectors and sub-sectors. In April 2011, Measurement Canada decided to discontinue trade sector reviews after 2012. With Bill C-14, An Act to Amend the Electricity and Gas Inspection Act and the Weights and Measures Act, having received Royal Assent, Measurement Canada's efforts must be focused on the Bill's implementation.

#### 2. Legislative Changes

Bill C14 provides, under the Weights and Measures Act, the authority to create regulations establishing mandatory inspection requirements and a legal obligation for device owners to comply with the requirements, and the authority for the Minister of Industry to designate nongovernment inspectors to perform these inspections and to suspend or revoke an inspector's designation.



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The legislative changes will also increase penalties for offences under both the Weights and Measures Act and the Electricity and Gas Inspection Act to provide increased levels of deterrence against non-compliance.

### 3. Participation in Type Approval MAA and MRA

Measurement Canada accepts the pattern approval evaluation test results from Issuing Authorities under the OIML MAA Program for non-automatic weighing instruments and related modules and will eventually do the same for load cells and water meters.

Measurement Canada continues to be both an issuing and utilizing participant in the Canada-US Mutual Recognition Agreement (MRA) of Type Evaluation Program for non-automatic weighing instruments, electronic indicators, and fuel dispensers. In July 2011, the MRA was renewed for a period of 5 years.

### 4. Use of Authorized Service Providers for device inspections

As of June 30, 2011, there were 166 organizations authorized to perform inspections of mass, volume, electricity and natural gas measuring devices on behalf of Measurement Canada. All authorized organizations were closely monitored and subject to audits and follow up inspections.

### 5. Load Cell Requirements

In early 2011, MC began requiring approved load cells in most new installations of vehicle scales. This initial implementation was intended as a pilot to ensure that there were no unforeseen issues with our new requirements.

### 6. Software Security Requirements for Electricity and Gas Meters

MC has established a joint work group with representatives from industry and has developed requirements based on OIML document D31 - General requirements for



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software controlled measuring instruments. These new requirements, published in August 2011 on MC's internet site for public consultation

### **People's Republic of China**

The Chinese economy report covered the following aspects:

1. Reinforce energy metrology, focusing on energy conservation
  - Approve three new energy measurement centers in province level
  - Inspection on implementation of technical regulation for product energy label (e.g. energy-consuming products, air conditioners in room and magnetic stoves for household use etc.)
2. Improvement of the metrology regulation and technical infrastructure
  - Initiate the draft of the catalogue of the measuring instruments subject to compulsory verification
  - Participated international comparison and organize comparison among local standards
3. Focus on metrology supervision and inspections in priority areas
  - Inspection in trade measuring instrument
  - Inspection on instruments for weighing road vehicles;
  - Inspection of prepackages goods
  - Inspection on the 73 national metrology station and substation
4. Capacity building
  - Develop 3 national laboratories for type approval
  - Approve to establish 1 national petroleum substation and 4 national natural gas substation for high flow measurement, respectively
5. International cooperation



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- Actively participate in relevant OIML TCs' activities (such as OIML TC9/SC2, OIML TC12) and CTT seminar
- Carry out 31 international comparison

### **Hong Kong China**

There is no representative attending the Forum meeting.

### **Indonesia**

Indonesia's economy report covered following aspects in the economy report.

#### 1. Legislation

In aiming to in line with international requirement in particular ASEAN community and in considering the national condition, some of technical regulations are being revised e.g. technical requirement for checking net quantity of prepackaged products as ASEAN Common Requirements for Pre-packaged Products and type evaluation of water meter.

#### 2. National Flagship "Promoting Public Awareness of Legal Metrology"

Directorate of Metrology tried a new approach in promoting legal metrology which is must also come from bottom (bottom – up approach) so the awareness of public on legal metrology is expected built. This Flagship called "Promoting Public Awareness of Legal Metrology" is aimed to build make a culture of fair on measurement as an added value of life which will support economic strengthened, boost social image, and also increase national performance of legal metrology.

Three output of this flagship are "Fair Traditional Market", "Fair City/Urban", and "Metrological Prime Award". "Fair Traditional Market" is given for a traditional market in each province which is all measuring instruments used in trade had been verified regularly. "Fair City/Urban" is given for a city/urban which is all measuring instruments



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had been verified in particular for NAWI, water meter, kWh meter, and Fuel Dispenser as a major measuring instruments. “Metrological prime award” is given for verification officers who have a contribution in giving a metrological service and also given for regional verification offices which give a good service to customer.

As a pilot project, currently there were 56 traditional markets awarded “Fair Traditional Market” and a city as “Fair City/Urban”.

### Japan

Japan’s economy report focused on the following five aspects:

#### 1. The Current State of Japan after the Great East Japan Earthquake

Japan would like to express our sincere gratitude as the Japanese delegate to the APLMF economies and international organizations for giving us many encouraging messages, offering relief supplies and sending us rescue teams.

#### 2. The Influence of the Great Earthquake on Legal Metrology in Japan

The validity periods for specified measuring instruments were extended until the end of August. Limiting in the disaster area, the expiration dates of 142 approvals, licenses and permissions were extended.

#### 3. Incorporating Technical Requirements of Measuring Instruments into JIS

Ministry of Economy, Trade and Industry (METI) is currently reviewing and revising all technical requirements on the specified measuring instruments presently described in the cabinet orders supplementing the Measurement Law.

So far, technical requirements of the eight specified measuring instruments have been amended by incorporating the requirements into JIS and it has been in effect since March 2011 for Heat meters (R75) and Alcohol hydrometers (R-22) based on the OIML Recommendations. METI is currently revising liquefied petroleum gas meters (R117) and road tankers with volume scale level gauging (R80-1) in order to





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conform with the OIML Recommendations and METI plans to complete this project in regard to all other technical requirements of the specified measuring instrument.

### 4. Participation in the OIML Activities

In 2006, National Metrology Institute of Japan (NMIJ) signed DoMC (Declaration of Mutual Confidence) in the framework of the MAA (Mutual Acceptance Arrangement) as the Issuing Participant for OIML R60 (Load Cell) and R76 (Nonautomatic Weighing Instruments). NMIJ is engaged in the implementation of the MAA on R60 and R76 with respect to perspectives of the domestic manufacturers in this field.

### 5. Other News in NMIJ in 2011

JICA Training Course in Legal Metrology has been suspended for 2011. We are therefore making an effort by proposing JICA the next program in 2012. In regard to the training program for grain moisture measurements, we are prepared for providing trainers in this field if it is requested by APLMF or a member economy.

### **Democratic People's Republic of Korea**

No representative from DPRK attended forum meeting.

### **Republic of Korea**

Republic of Korea reported the legal metrology activities since the last meeting in the following aspects.

#### 1. Measures Act

Under the Measures Act, the Korean Agency for Technology and Standards (KATS) was authorized to promote and enforce Korea's legal metrology system.

The Act was revised in 2011, making it unnecessary for businesses to renew type approval for measuring instruments and thus lifting an unnecessary cost burden.

#### 2. Use of SI Unit

KATS is cooperating with consumer groups to research the degree of SI compliance



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in various commercial fields this year.

### 3. Prepackaged Products

KATS continually works to raise awareness of SI units among stakeholders and industries, and regularly conducts inspections to verify the accuracy of the measurements stated on packaging.

### 4. Measurement Standards and Reference Materials

KATS had initiated a Measurement Standards Project in cooperation with the Korea Research Institute of Standards and Science (KRISS) to develop measurement standards and traceability systems for new growth engine industries.

To ensure the reliability of reference materials, KATS had accredited eight reference material producers (RMPs) since 2006 in accordance with international standards (ISO Guides 34, 35 and others).

### 5. Workshop on the National Standards System and Precision Measurement Technology

The Workshop on the National Standards System and Precision Measurement Technology took place at the Korea Research Institute of Standards and Science (KRISS) from March 17 to April 2, 2011.

### 6. Training

To ensure the efficient and professional operation of Korea's official metrology systems, KATS regularly organizes internal training programs to improve the capabilities of local government officials and personnel responsible for verifications and inspections. Training courses cover the Measures Act, type approval, the SI and verification procedures.

KATS also offers training courses for the staff of verification laboratories every year to enhance the overall precision and accuracy of measurements.



### **Malaysia**

Malaysia Updated on the Current Development/Activities in Legal Metrology.

#### 1. National Measurement System Act 2007

The National Measurement System Act (NMSA) 2007 came into operation on 15 February, 2008. Under the Act the National Metrology Laboratory of SIRIM Berhad (NML-SIRIM) has been appointed as the National Measurement Standards Laboratory. A National Measurement Council (NMC) is established under the Act to advise the Minister on all matters concerning the national policy objectives for measurement system activities.

#### 2. Regulations for the Control of Quantity of Product in Prepackages

The draft regulation for the control of pre-packaged products is still being finalized by the Ministry of Domestic Trade, Cooperative and Consumerism (formerly known as the Ministry of Domestic Trade and Consumer Affairs) where consultations with the main players in industry and the respective government agencies had been carried out to seek their views prior to the implementation of the regulation.

#### 3. Review of Pattern & Specifications Order for Weighing and Measuring Instruments

A Weights and Measures Technical Committee consisting of members from the Ministry of Domestic Trade, Cooperative and Consumerism; National Measurement Standards Laboratory; and Metrology Corporation Sdn. Bhd. has recently finalized.

The 1st Draft has been submitted to the Legal Advisory Office of the Ministry of Domestic Trade, Cooperative and Consumerism last month for their comments.

The draft has taken into consideration relevant OIML recommendations and



publications in updating the pattern and specifications requirements.

### **Mongolia**

No representative from DPRK attended forum meeting.

### **New Zealand**

New Zealand highlighted main issues in the economy report.

#### 1. Restaurants Selling Live Seafood

MAPSS have been working on an investigation involving restaurants that sell live seafood and crayfish by weight to dining customers. MAPSS decided to deal with the non-compliances by means of education and issuing letters of warning explaining the requirements under the Weights and Measures Act for conducting trade in New Zealand.

#### 2. Meeting with Importers of Seafood Products

In May 2010 MAPSS representatives met with the two of the main importers of seafood products into New Zealand. The meeting was organised in response to short weight imported seafood products being found in supermarket outlets.

#### 3. Meeting with New Zealand Retailers Association

In June 2010 MAPSS representatives met with the NZ Retailers Association (NZRA) to discuss several issues concerning the monitoring and controlling of both in-house branded and third party supplied packaged goods

#### 4. Trade Measurement Co-operative Arrangement with the Australian National Measurement Institute (NMI)

Over the past year MAPSS has been actively working with NMI to finalise an agreement that will provide a framework for ongoing co-operation between the two agencies. This arrangement is one of the Government's agreed Single Economic



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Market outcomes and is scheduled to be signed in September 2011.

### 5. New Measurement and Product Safety Service Auckland Premise

The new Auckland office is planned to be officially opened in mid October 2011 and will be an opportunity to highlight MAPSS's operational activities with consumers, traders, industry and stakeholders.

### Papua New Guinea

Mr. Victor Gabi from Papua New Guinea (PNG) highlighted legal metrology issues since last meeting.

#### 1. Currently OIML Recommendations in use in PNG

- OIML R117, Verification of Measurement Systems liquids other than water
- OIML R118 pattern evaluation of fuel Dispenser for Motor Vehicles
- OIML R76, Verification of Non Automatic Weighing Instruments
- OIML R76-1, NAWI Testing
- OIML R111-1, Classes of masses
- OIML R60, load cells
- OIML R65, Force measuring systems of uniaxial material testing machines
- OIML R35-1 Material Measures of Length for general use

#### 2. OIML Recommendation not been used due to infrastructural reasons, but the need to use is there.

- OIML R44, Alcoholometers and alcohol hydrometers
- OIML R49-2, Water meters intended for the metering of cold portable water
- OIML R114, Clinical Electrical Thermometers for continuous
- OIML R76-2, NAWI Pattern Evaluation
- OIML R 21, Taximeters
- OIML R71, Fixed Storage tanks. General
- OIML R111-2, Test Report Format, for classes of masses
- OIML R137-1 Gas Meters
- OIML R31 diaphragm Gas Meters



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- OIML R32 Turbine Gas Meters
3. Other events budgeted for and are yet to be implemented
    - Seminar for Provincial Governments on the “Importance of Metrology”
    - A NAWI Training end of 2011 or early 2012.
    - A Verification of Fuel Dispensers early 2012

### **Philippines**

#### 1. The Economy Metrology Act

The legislative measure was approved by the Philippine President on February 3, 2004.

#### 2. The National Metrology Board

Currently, the National Metrology Laboratory of the Philippines (NMLPHIL) which is under the Industrial Technology Development Institute-Department of Science and Technology (ITDI-DOST) is the organization responsible for establishing and maintaining national physical standards. The NMLPHIL also performs the dissemination of standard values to users at the best uncertainty levels attainable, through the calibration and measurement services offered by the Laboratory.

#### 3. Use of SI Units

The 2003 National Metrology Act also prescribed the system of unit based on the International System of Units (SI) as the mandatory system of measurement throughout the country in regulated areas of application.

#### 4. Measurement Standards and Reference Materials

The measurement standards have covered the field including the length, temperature, pressure, mass, force and so on.

#### 5. Metrology-Related Programs

The NML Philippines, ITDI conducts/provides:

- Inter-laboratory comparisons among local testing and/or calibration



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laboratories;

- Trainings (upon request) on verification/calibration/testing covering different areas like mass, length, volume, temperature, pressure, etc., to government as well as private testing/verification/calibration laboratories;
- Consultancy services to different sectors including the different DOST Regional Metrology Laboratories re: standards/equipment requirements appropriate to services required in their respective Philippine regions.

### **Russian Federation**

Delegates from Russia Federation were absent.

### **Singapore**

The key activities in Singapore include:

1. Singapore Weights and Measures Programme
  - Authorised Verifier Scheme
  - Average Quantity System
  - Improving the Design of the Volume Measure
2. User Education and Outreach

SPRING Singapore organized the Quality & Standards (QS2011) on 29 June 2011 for the local enterprises, industry experts, industry associations, consumers, academia and government bodies to enhance awareness of the latest trends in standards, accreditation, consumer safety, weights and measures and technical regulations. Attended by some 400 participants, this year's conference focused on "Building Trust in Products and Services".

### **Chinese Taipei**

Chinese Taipei summarized activities and development in legal metrology field since last forum meeting.



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### 1. Weights and Measures Legislation

Several metrology-related regulations, technical specifications and standards were amended and enacted since last forum meeting. The key points of legislation included:

- Business Operation Licensing and Administration Regulation of Measuring Instrument Enterprises
- Regulation Governing Self-verification Conducted by Measuring Instrument Enterprises
- Regulation Governing Commissioned Metrological Activities.
- Prepackaged Goods

### 2. Legal metrology Affairs

- Examinations for metrological technical personnel were held in June and September 2011.
- The e-learning website (<http://metrology.bsmi.gov.tw/>), set up by BSMI and providing relating metrology knowledge, was updated in October 2011.
- Three sessions of training are scheduled to take place in 2011.

### 3. Other Activity

To celebrate the World Metrology Day, Chinese Taipei organized a series of activities on the impact of metrology to the society and industry during the week of May 16-20.

### 4. Future Plan

- a) The scope of prepackages subject to legal control will be announced before the end of 2011





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- b) Due to the developments of advanced electricity meters, the specification of verification and inspection for electricity meters is to be amended to meet the requirement from the users and manufacturers.
- c) With the developments of electric car in domestic, fair trade for the battery-recharge service shall be ensure by developing a new technical specification of verification and inspection for conductive charging system meters.

### **Thailand**

Thailand highlighted the newly established high flow meter system.

CBWM High Flow Metering System was set at The Eastern Verification Center, Chonburi.

1. The High Flow Metering System has the following components
  - 3 Prover Tanks (500 Ltr, 3,000 Ltr and 6,000 Ltr.)
  - 4 Positive Displacement Meters (PD Meters). (2 Meters with 4" dimension and 2 Meters with 8" dimension)
  - 3 Sets of load cell with 10 g readability .
2. Product used for testing
  - Diesel or Kerosene around 15,000 Ltr.
3. Control System
  - Software Controlled (SCADA Software)
4. Used for verifying Meters with flow rate from 300 to 5,000 Ltr/Min.

### **United States of America**

USA highlighted seven items of the economy report.



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### 1. Development of a new ANSI standard for Gas Meters /Harmonization with OIML Recommendations

The American National Standards Institute (ANSI) technical committee B109, responsible for gas metering standards is developing a new performance-based standard for gas meters that will cover all metering technologies. This new standard is based on the final draft of OIML R137 “Gas Meters”. The organization responsible for this technical committee is the American Gas Association (AGA), and a NIST engineer is leading this effort.

### 2. Development of Hydrogen Fuel Measurement Standards

NIST established a U.S. National Work Group (USNWG) for the Development of Commercial Hydrogen Measurement Standards in 2007 to develop a comprehensive set of legal metrology standards for commercial measurement of hydrogen for vehicle and other refueling applications.

The National Conference on Weights and Measures approved a tentative code of legal metrology requirements for commercial hydrogen gas refueling devices. NIST published this tentative code in its 2011 edition of NIST Handbook 44 “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.”

### 3. Labeling Requirements for Printer Ink and Toner Cartridges

A new Method of Sale and Labeling Requirements is proposed. The NIST Weights and Measures Division believes that according to guidelines from the US Weights and Measures Law, “information required on packages,” these products are required to have the net contents of the ink (and toner) labeled. These are expensive items



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and the need exists to clarify the labeling requirements for industry, consumers, and weights and measures officials.

### 4. Net Weight of Seafood

NIST had been working hard with many entities in the US government to ensure the accurate measurement of seafood. NIST also had held two public forums on this issue, in May 2009 and in July 2010, to discuss the problem and solutions to short net weight fraud occurring in the Seafood industry.

### 5. Sale of “Pelletized” Ice Cream and “Pelletized” Frozen Desserts

The U.S. Food and Drug Administration (FDA) made an announcement in April 2009 that the appropriate net quantity of contents declaration for pelletized ice cream would be net weight only. Manufacturers were given until April 2010 to revise their labels. In July 2010, the NCWM approved new language in HB 130 that fully defines pelletized ice cream and states that it shall only be kept, offered, or exposed for sale on the basis of net weight

In August 2010, the FDA made a decision that the net quantity of content statement on pelletized frozen desserts (different from pelletized ice cream because they do not contain any dairy products) shall also only be declared in terms of net weight. FDA is expecting manufacturers of pelletized frozen desserts to have their labels reflect a net weight declaration in 2011.

### 6. Seed Count for Agricultural Seeds

NIST and the NCWM are in the process of amending HB 133 to provide for a uniform, practical, and accurate method for conducting inspections of specified agricultural seed varieties when labeled and/or sold by “count.” There is consensus among the



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seed industry, state seed control officials, and academics in support of the AOSA standard for seed counting.

### 7. Moisture Allowance – Pasta & Noodle Products

There is support from manufacturers on this item, but most regulators believe there is no need to offer the extra allowance.

### 8. Legal Metrology Issues concerning Electrical Vehicle Charging

One rapidly developing and significant legal metrology issue in the U.S. concerns the sale of electricity to charge electric vehicles. The legal metrology issues arise on how the public site is attempting to “sell” the electricity to consumers. The key for the weights and measures officials is that the transaction involves a measurable finite quantity of energy so that nationally-standardized requirements for the method of sale can be developed.

### **Viet Nam**

Viet Nam updated current status, development of legal metrology and action plan in 2011.

#### 1. Current status and development of legal metrology

##### a) Law and regulations

- Law on Metrology will be submit to National Assembly for approval on October this year.
- Issued 20 binding technical specifications on metrology, based on OIML recommendations.

##### b) Organized the International Metrology Day (20/5/2011).

#### 2. In the year of 2012

- Submit the Government, the Minister of MOST to issue Degree, Cirlulars



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for implementing Law on Metrology;

- Submit the Minister of MOST to issue Circular on metrological management for trade of gold.
- Issue ~20 binding technical specifications on metrology, based on OIML recommendations.

### **3.14. Other issues**

#### **1. Review MoU between APLMF and APMP**

APLMF Secretariat has circulated the final draft APLMF- APMP MoU to all members for comments before the meeting. During the meeting, no member was against the contents of this MoU and all agreed the APLMF- APMP MoU be signed at appropriate timing in Dec. 2011.

#### **2. Membership request from Bhutan**

The Secretariat informed the meeting that a formal official letter was received from Bhutan stated that Bhutan would like to become a member of APLMF. After discussion, APLMF members suggested to seek clarifications from Bhutan on their functions and operation of metrology body before further consideration. The meeting also suggested the principles and criteria for accepting new APLMF members also be reviewed among members.

#### **3. APLMF Presidency**

Mr. Pu Changcheng was re-elected as the APLMF President in this meeting.

### **3.15. Future Meetings**

Mr. Rodrigo B. Dacuyan from the Philippines confirmed that the 18th APLMF Meeting would be held in Nov. 2012 and gave a brief introduction. The exact date and venue



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of the next forum meeting will be confirmed later. All Participants accepted this invitation by giving a round of applause.

### **3.16. Closing Address**

Mr. Kim Dongho gave the following close remarks:

Mr. Pu Changcheng, distinguished President of the Asia-Pacific Legal Metrology Forum,

Distinguished representatives of all the countries in the Asia-Pacific region,

Ladies and gentlemen,

This forum is now drawing to a close.

I would like to take this opportunity to express my sincere gratitude and appreciation to all the speakers and participants/ for your invaluable contributions.

You have made this event a great success.

I hope you too have found the past three days fruitful, and that you have gained much from the sessions you attended.

At the same time, we are very grateful to the KATS staff members for their hard work to make this event such a success.

If time permits, I hope you will take time to enjoy the special culture and beautiful scenery of Korea and that you will leave with fond memories, not only of the city of Busan but also of the friendly and welcoming spirit of the Korean people.

We look forward to seeing you in Prague in November for the next meeting of the International Organization of Legal Metrology.

Thank you and have a safe journey to home.



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Mr Pu, the APLMF President, gave a conclusion address. He noted that in the past few days, all issues listed in the agenda had been discussed. Expected results had been achieved. He thanked all attendees for their active participation, contribution and support. As the APLMF President, he would like to continue to work with colleagues from member economies to fulfill and implement the work plan agreed at this meeting.

Finally, he expressed his deeply gratitude to the honorary chair, Mr. Kim Dongho, colleagues in KATS, Secretariat of APLMF and all people involved in preparation the meeting for their efforts and hard work to bring the successful meeting. He also thanked all participants for their active participation and wished them a pleasant and safe trip back.