



Asia-Pacific Legal Metrology Forum

APLMF Seventeenth Meeting Minutes

Sept. 13 – 16, 2010

Delta Victoria Ocean Pointe Resort and Spa, Victoria BC, Canada

17th Asia-Pacific Legal Metrology Forum Meeting

Sept. 13 – 16, 2010

Hosted by the Measurement Canada, the 17th APLMF working group meeting and forum meeting were held from Sept. 13 through Sept.16 , 2010 at the Delta Victoria Ocean Pointe Resort and Spa, Victoria, BC, Canada. 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

Canada	Ms. Anne Lamoureux	Measurement Canada
	Mr. Bill Cochrane	Measurement Canada
	Mr. Ian MacKinder	Measurement Canada

1.2. Table 1-2 President and Secretariat

President	Mr. PU Changcheng	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
Honorary President	Mr. Glenn Armstrong	Measurement Canada
Secretary	Ms. ZHENG Huaxin	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
Secretary	Dr. ZHANG Chao	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)
Secretary	Mr. GUO Su	General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ)



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1.3. Table 1-3 Full Member Economies

Australia	Dr. Graham Harvey	National Measurement Institute Australia (NMIA)
Australia	Mrs. Marian Haire	National Measurement Institute Australia (NMIA)
Canada	Mr. Alan Johnston	Measurement Canada / Organization Internationale de Metrologie Legale (OIML)
Canada	Mr. Gilles Vinet	Measurement Canada
People's Republic of China	Mr. HAN Yi	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
People's Republic of China	Mrs. KONG Xiaokang	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
People's Republic of China	Mr. LIU Xinmin	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
People's Republic of China	Mr. HAN Jianping	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
People's Republic of China	Mr. DU Yuejun	General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ)
People's Republic of China	Mr. ZHOU Zhongcheng	Administration of Quality and Technology Supervision of Qinghai Province, China
People's Republic of China	Mr. JING Wufeng	Administration of Quality and Technology Supervision of Xinjiang Uyghur Autonomous Region
People's Republic of China	Mr. DUAN Yizhong	Administration of Quality and Technology Supervision of Guangxi Zhuang Autonomous Region
People's Republic of China	Mr. YANG Youtao	Beijing Institute of Metrology



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Indonesia	Mr. Sunarto Kiflie	Directorate of Metrology
Indonesia	Mr. Rifan Ardianto	Directorate of Metrology
Indonesia	Mr. Charles Sagala	Directorate of Metrology
Indonesia	Mr. Deden Muhammad FS	Metrology Training Center
Indonesia	Mr. Permadi	Metrology Training Center
Japan	Mr. Yuichi Nagami	Ministry of Economy, Trade and Industry (METI)
Japan	Dr. Yukinobu Miki	National Metrology Institute of Japan (NMIJ), AIST
Japan	Mr. Kazuo Neda	National Metrology Institute of Japan (NMIJ), AIST
Japan	Dr. Akira Ooiwa	National Metrology Institute of Japan (NMIJ), AIST
Japan	Dr. Tsuyoshi Matsumoto	National Metrology Institute of Japan (NMIJ), AIST
Republic of Korea	Dr. Nam Hauk	Korean Agency for Technology and Standards (KATS)
Republic of Korea	Ms. Hur Jeong Uck	Korean Agency for Technology and Standards (KATS)
Republic of Korea	Dr. Im Wan Bin	Korea Association of Standards and Testing Organizations
Republic of Korea	Mr. Song Jaebin	Korea Association of Standards and Testing Organizations



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Republic of Korea	Mr. Kim Sung Wook	Korea Testing Certification
Republic of Korea	Ms. Sim Jae Hoon	Korea Testing Certification
Republic of Korea	Ms. Hyeyoung Lee	Korea Association of Standards and Testing Organizations
Mongolia	Mr. Enkhtaivan Gurjav	Mongolian Agency for Standardization and Metrology (MASM)
New Zealand	Mr. Brian Waltham	Measurement and Product Safety Service, Ministry of Consumer Affairs
Papua New Guinea	Mr. Victor Gabi	National Institute of Standards and Industrial Technology
Singapore	Mr. Michael Ong	SPRING Singapore
Singapore	Ms. Lena Soh	SPRING Singapore
Chinese Taipei	Mr. Brian C.S. Shu	Bureau of Standards, Metrology and Inspection (BSMI)
Chinese Taipei	Mr. Chun-Der Hsia	Bureau of Standards, Metrology and Inspection (BSMI)
Thailand	Mr. Sakchai Hasamin	Department of Internal Trade, Ministry of Commerce
United States of America	Dr. Charles Ehrlich	National Institute of Standards and Technology (NIST)
United States of America	Mr. Ralph Richterl	National Institute of Standards and Technology (NIST)
Viet Nam	Mr. Tran Van Vinh	Directorate for Standards and Quality (STAMEQ)



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Viet Nam	Mr. Nguyen Hung Diep	Directorate for Standards and Quality (STAMEQ)
Viet Nam	Mr. Ngo Tat Thang	Directorate for Standards and Quality (STAMEQ)
Viet Nam	Mr. Nguyen Ngoc Tuan	Directorate for Standards and Quality (STAMEQ)

1.4. Table 1-4 Honorary Member

Australia	Mr. John Birch AM	-
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1.5. Table 1-5 International / Regional Organizations

BIML	Mr. Willem Kool (the Netherlands)
APLAC	Mr. Trace McInturff (USA)
APMP	Dr. Harvey Grahame (Australia)
ARFIMET	Mr. Geraldo Luisa Albasini (Mozambique)



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2. Working Group (WG) Chair Meeting (9 am – 12:30 pm, Sept. 13, 2010)

The WG chairs' meeting was chaired by Mrs. Marian Haire, the Chair of the WG on Training Coordination. Seven WG chairs of APLMF and the APLMF Secretariat attended the meeting. The Agenda was as following:

- Review APLMF training programs since 2008
- APEC policy and procedures on project proposals submission
- Evaluation of training proposals
- Coordination mechanism in terms of development of the training programs proposal
- Other issues
- Conclusion

This was the first time a trial WG chair meeting was held. The aim of this meeting was enable the WG Chair to review and discuss proposals or suggestions submitted by member economies for the 2011 APEC project application. The meeting took note of the difficulties of applying for funds from APEC for APLMF 2011 training program and encouraged the APLMF Secretariat, active members and WGs to work together for the successful application to the APEC-funded training program.

3. Work Group meeting (9 am – 5 pm, Sept. 14, 2010)

The WG meeting was held on Sept. 14. 2010. Two APLMF WG Chairs, Dr. Tsuyoshi Matsumoto (WG on Quality Measurement of Agricultural Products) and Mrs. Marian Haire (WG on Training Coordination) were responsible for the morning session and the afternoon session, respectively. The agenda of this



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meeting included reports from 7 WGs of APLMF and the discussion on APLMF Training/ Seminar proposals.

Morning Session: Chaired by Dr. Tsuyoshi Matsumoto (WG on Quality Measurement of Agricultural Products)

3.1. WG on Training Coordination

Mrs. Marian Haire, , the Chair person of this WG, reviewed training activities since the 16th APLMF Forum meeting, lessons learned, follow-up surveys on the training course conducted since 2008. She also expressed thanks to China, Indonesia, Singapore and Thailand for hosting 2009-2010 training courses and Canada, China, Australia, Germany and the Netherland for providing trainers, which led to the success delivery of these training programs. These training activities were:

- Gas Meter Training Course (Chongqing , China, April 2010)
- Verification of NAWI Weighbridges (Bandung, Indonesia, June 2010)
- Strengthening Legal Metrology Infrastructure for Trade Facilitation: Mass Flow Meter (Singapore, July 2010)
- Workshop on software of controlled measuring instruments (Bangkok, Thailand, August 2010)

The second part of her report was to introduce 2011 APEC funding proposals submitted by member economies. Dr. ZHANG Chao, the APLMF Secretary provided the detailed procedures and timetable for application of 2011 APEC-funded project and then, Marian introduced the member economies' proposals received.

- Harmonized verification of Mass Flow Meter at system level (Singapore)



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This proposal would be a follow-up workshop of the mass flow meter training course held in July 2010.

This project was to create a case study of verification of Mass Flow Meter at the port and to demonstrate the successful implementation of best practices to the verification of mass flow meter at the system level.

- APLMF Uniform Test Procedures (UTPs) for verification of measuring instruments (Australia)

Dr. Harvey explained the reason why the uniform test procedures for verification of measuring instruments be developed. He pointed out the idea of this proposal was to underpin each economies training to maintain uniformity and thus harmonize the testing of measuring instruments in the region.

- Verification of bulk flow metering systems (New Zealand)

Mr. Waltham introduced this proposal. The proposed training would focus on verification, certification and in-service inspection of in-line (pipe line) turbine or positive displacement metering systems used for hydrocarbon products traditionally found in the bulk fuel supply chain, involving the unloading and loading of ships, tankers (road and rail) and for aircraft refueling. The methods and equipment used to test these types of bulk flow systems would focus on using volumetric in-line master meters and in-line pipe provers as these are traditionally the most commonly used methods for the verification, certification and in-service inspection. The basis for the training would be based on OIML R 117.

- On site mentoring of key personnel by developed economies (Canada)



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Mr. Vinet highlighted this new training approach, which allowed one or two individual in one economy to go to another economy for several weeks for the training on the specific area with APEC funding to cover the travel and accommodation.

- Infrared ear thermometer (Chinese Taipei)

Mr. Shu explained the objects of organizing such a training course on infrared ear thermometer training after the completion of the survey conducted in this area. He emphasized that this training course would be important for the purpose of screening of high fever patient in case of the outbreak of the emerging diseases.

- Benchmarking of each member economies legal metrology system (Singapore)

This proposal was introduced in the afternoon session.

- Software examination in evaluation to type (China)

Mr. Yang explained this proposal was to organize a follow-up training course to look at the software on the specific measurement instrument after the completion of the software workshop that aimed at the general introduction software examination held in Aug. 2010.

- Water meter type evaluation course (Indonesia)
- Verification of smart electric meters (Indonesia)
- Verification of rice moisture meters (Indonesia)
- Checking net contents of aerosol products such as oxygen or LPG (Indonesia)
- Implementation of OIML D9 and D16 (Indonesia)



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Mr. Ardianto explained the training needs in Indonesia and expected that training courses on type evaluation and verification of measurement instruments would be organized at the appropriate timing.

Dr. Matsumoto also updated the training needs for rice moisture meter from several economies and understood the difficulty for obtaining funds from APEC. He, therefore, proposed a new approach of using self-fund to organize specific training program. He would give detail introduction during the report on the WG on Quality Measurement of Agricultural Products in the afternoon session.

Marian emphasized the requirement to include different ideas in one proposal was important as only one proposal would be put forward to APEC for consideration and to make sure the proposal was relevant, efficient and highly important for the APEC region. She asked participants to consider all proposals presented and identify the prioritized proposals for endorsement at the end of the forum meeting.

Dr. Ehrlich from USA sought clarification concerning current situation on training. Since there was no training program from now to at least July 2011, he would like to know whether it was due to the tougher requirements from APEC or some other reasons. Marian replied no proposals for 2011 had been put forward at the moment. Meanwhile, APEC also set up the tougher requirements for proposes.

Mr. Birch from Australia sought further information on the status of workshop/seminars of APEC Sub-Committee on Standards and Conformance (SCSC) and pointed out that SRBs should educate the SCSC committee concerning standards and conformance using a workshop/seminar during the period of SCSC meeting.



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Marian responded she did not have much information on the meeting, although she had attended an SCSC meeting in Australia, 2008.

Mr. Birch added APLMF was basically the technical organization and SCSC was the policy organization. Bridging the gap between policy and technical was always a continuing problem. He pointed out at some stage APLMF needed to expand investigation to look at how technical expertise would fit into the public policy and economic benefit criteria, which was what the SCSC committee looked for rather than for technical details.

Marian agreed with Mr. Birch's comments and pointed out the APLMF had not used technical language in the proposal.

The delegate from AFRIMET asked two questions: first one was whether the training courses were only for APEC region or also open for other economies outside APEC region. The second one was whether it would be possible to share the surveys of those training courses.

Marian replied that training courses were only for APEC region members at the moment. In terms of the survey results, it was possible to obtain this information via the website using a password. More details could be discussed with APLMF Secretariat.

Mr. Birch proposed that, due to a couple of issues (e.g. number of participants and funding) regarding the current situation on the training courses, consideration should be given now to introduce the registration fee for participants to attend the training courses/workshops.



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3.2. WG on Goods Packed by Measure

Mr. Waltham summarized the progress made on the work program of the WG in 2009. He highlighted current status on the Goods Packaged by Measure Survey. Sixteen economies responded to this survey and the draft results in hard copy were available. The electronic one would be placed on the APLMF's website. He invited Mr. Willem Kool, the BIML assistant director to update activities on OIML Technical Committee 6 (TC 6) - Prepackages.

Mr. Kool made a presentation of updates on the TC-6 of Prepackaged goods.

1. OIML Certificate system for prepackages
2. Revision of OIML R 79
3. Revision of OIML R 87
4. Methods to determine actual quantity

He also mentioned that the next meeting of TC 6 would be held in 11-15 April 2011 in Tokyo, Japan. More information on OIML TC 6 could be found by visiting <http://workgroups.oiml.org/tcsc/tc-6>.

In terms of an action plan for 2011, Mr. Waltham proposed four items for consideration by APLMF members.

1. Continue to maintain/update and distribute register of contacts for Working Group
2. With the assistance from the APLMF Secretariat, release final document - Goods Packaged by Measure Survey of APLMF member economies;
3. Continue discussions (as the need arises) with WELMAC and SADC MEL on strategic issues relating to goods packed by measure. The Working Group contact list would be used to regularly circulate updates and information;



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received from WELMAC, SADC MEL and OIML TC6 when they were received by the Work Group Chair;

4. Continue collaboration and report on the work of OIML Technical Committee.

Mr. Vinet asked whether reference temperature at 20 °C for products was a new item or was it already included in R79.

Mr. Kool said it was already in R79. The discussion at the TC meeting was whether it should be changed for some frozen products and he concluded 20 °C should be kept as the reference temperature.

3.3. WG on Utility Meters

Mr. Gilles Vinet, the chair, gave the summary report of activities since last forum meeting in 2009. He reported the implementation of training course on gas meter held in Chongqing, China in April 2010 followed by updates on the 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.

The action plan for the year 2010 was proposed to APLMF members as follows:

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

Mr. Birch mentioned the potential impact of climate change electricity metering. He mentioned that the electricity had been now feed into many grids from domestic solar system, He asked the effect on the harmonics in the grids and on the accuracy of electricity measuring.

Mr. Vinet mentioned that Measurement Canada was very much involved with the provincial authorities because of the many important initiatives where



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micro-generation uses solar and wind energy sources. Although there were several discussions on this issue, MC was not involved in any discussions on harmonics.

Mr. Richter from USA gave the updates on the TC8/SC7 activities. He mentioned that the 2CD for R137-Gas Meters was issued and comments would be due in Dec.2010.

3.4. WG on Mutual Recognition Arrangements

Dr. Charles Ehrlich, the chair, presented four work items for 2010.

1. To continue supporting the OIML work on implementation of Mutual Acceptance Arrangement (MAA) and not to develop a regional MAA.
2. To monitor ways in which the APLMF member economies can participate in the OIML MAA.
3. To contribute an OIML MAA implementation update report to the APLMF Circular.
4. To revise a questionnaire to the members whether they are willing to accept OIML certificates which are issued on the basis of using test data provided by manufacturers.

Mr. Johnston from Canada commended it was the good idea to provide the MAA update as it was useful for APLMF. From the OIML's prospective, it was also good to share the information.

Dr. Harvey from Australia mentioned some of APLMF members that were not very active in the OIML might benefit from this information.

Mr. Vinet sought clarification on whether the manufacturers test data could be used in the MAA Certificate.



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Dr. Ehrlich responded that MAA did not use the manufacturer's testing data. What would have to be a change was the language of B10 document-MAA Documents that would state the manufacturer's tests could be allowed. This language change had been drafted and would be discussed in the TC3/SC5 meeting. TC3/SC5 and CIML members would vote on the revision of B10-MAA Document before the manufacturer's testing data could be the part of MAA.

Afternoon Session: Chaired by Mrs. Marian Haire (WG on Training Coordination)

The first item in the afternoon session was the introduction of Singapore's proposal by Ms. Soh. She explained Singapore had taken the lead to introduce a scientific approach to using mass flow meter in the bunkering industry in Singapore. A work group and technical committee had been formed to develop a Singapore Standard which would be applied in the proposed workshop. She also mentioned that the section in the Singapore Standard covering verification procedures would be shared with other APLMF members.

Mr. Birch from Australia mentioned that APLMF had submitted a proposal on high capacity oil/gas flow measurement several year ago but was rejected by APEC because they suggested the project be supported by the oil and gas industries themselves as they were very wealthy, which was a complete misunderstanding of the nature of the project. He emphasized the need for APEC to understand that the objective of this proposal would be the regulation of the measurement.

Mr. Waltham from New Zealand added that, in addition to the new technology of mass flow meter used in the bunker industry, the volumetric method was also



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extensively used.

Mr. Richter from USA asked whether the test procedure was compatible with OIML R117. Ms. Soh said the test procedure would be compatible with OIML R117.

3.5. WG on Medical Measurement

Mr. Brian Shu from Bureau of Standards, Metrology and Inspection (BSMI), Chinese Taipei gave a comprehensive presentation on the blood glucose meter.

It covered following six aspects.

1. Introduction of Diabetes
2. Blood glucose monitoring instrument
3. Medical Regulatory Control
4. ISO 15197 - In vitro diagnostic test systems - Requirements for blood-glucose monitoring systems for self-testing in managing diabetes mellitus.
5. Accuracy
6. What could metrology do more?

In terms of the 2011 work plan, WG proposed to develop/organize training on Infrared Ear thermometer as per APLMF agreed-to training plan and funding availability or to prepare a report on Control of IVD Medical Devices from Metrological Perspectives.

3.6. WG on Quality Measurement of Agricultural Products

Dr. Tsuyoshi Matsumoto, the chair, reported the activities since last forum meeting. He highlighted the newly developed approach for further trainings and updated activities of OIML TC17/SC1 and TC17/SC8 on (1) TC17/SC1 R92 "Wood-Moisture



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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".

In terms of training program for the year 2011, he proposed a new training approach. The key points were:

1. **Trainers:** Two or three trainers would attend from Japan using their own funds.
2. **Trainees:** Most of the trainees were expected to attend from the host economy. Overseas trainees would be also accepted.
3. **Funding support:** The meeting packages of the local trainees were expected to be provided by the host economy. Trainees from other member economies would attend with own funds.

The WG would be responsible for the planning and organization of the program in cooperation with the WG on Training Coordination, Secretariat and the host economy.

In addition to the new schemes of training program, the WG would continue the contribution to the activities of OIML TC17/SC1 and TC17/SC8.

Mrs. Haire commented this new scheme without using APEC funds was good to continue the training course.

Dr. Matsumoto indicated if some economies would support and host such training program, Japan was happy to support the trainers.

3.7. WG on Metrological control systems

Mr. Yang Youtao, the chair, reported the progress of WG since 2009. His report



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included three aspects:

1. Current status of three APLMF guidelines
2. Questionnaire about the Comments for Working Group on Metrological Control System
3. Cooperation with the APLMF secretariat for organizing the workshop on software controlled Measuring instruments in 2010.

The proposed action plan in 2011 included proposing to organize a workshop on the metrological control system and workshop on software controlled measuring instruments, particularly in some special measuring instrument (i.e. software verification of fuel dispensers) at the appropriate timing. The working group might consider developing more guidelines for APLMF in the metrological control system.

Mr. Shu thought Guideline 3 - *the selection and use of Certified Reference Materials for legal Metrology control* was a successful one and he wondered if it was possible to extend the area to the medical field and include it in the WG's further Guidelines.

Mr. Yang responded it could be possible.

Mr. Rifan Ardianto asked if it was possible to organize a seminar /workshop on OIML International Documents such as D9-Principles of metrological supervision, D16-Principles of assurance of metrological control.

Mr. Ehrlich added that D16-Principles of assurance of metrological control was under revision and both D9 and D16 were under TC3/SC2. He also mentioned that D1-Elements for a Law on Metrology were also under revision. He suggested if there was a workshop, D1 should be part of the contents.



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Mr. Haire recalled Mr. Birch's suggestion that APLMF should start to consider providing seminars for managers in the region. She suggested Indonesia cooperate with this WG Chair, Mr. Yang to develop a concept note in the next 12 months.

Mr. Yang said the WG would think about these suggestions.

Mr. Haire encouraged member economies to make use of the three APLMF Guides in their domestic legal metrology activities.

3.8. APLMF Training/ Seminar proposals discussion

Mr. Birch made some comments on APLMF proposals. He emphasized the importance of public policy issues and roles of metrology in providing input to the government decision-making in legal metrology area. He talked about the role of metrology control system in providing trust and confidence in measurement to critical public policy on climate change and road safety. He pointed out climate change was an area which required measurement but metrology hadn't had much involvement in it. He believed metrology could provide an important component to the public policy by increasing the trust confidence in measurements through its standardized metrological control systems.

Since the needs/proposals from member economies covered different legal metrology fields, it was very difficult to put all of them in one proposal to be submitted for APEF fund bid. Mrs. Haire came up with two options regarding those proposals:

No. 1

Tentative title: Facilitation of international trade through accurate metering of bulk petroleum hydrocarbons



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It included:

- Workshop to report on implementation of Coriolis mass flowmeter in Singapore
- Develop verification test procedures for Coriolis mass flowmeters.
- One on one mentoring for 1-2 individuals by Singapore on implementation of Coriolis metering
- Training course on verification of volumetric bulk flow metering systems using in line master meters and pipe provers.

No. 2

It covered:

Part A - Mass flowmetering

- Workshop to report on implementation of Coriolis mass flowmeter in Singapore
- Develop verification test procedures for Coriolis mass flowmeters.
- One on one mentoring for 1-2 individuals by Singapore on implementation of Coriolis metering

Part B - Infrared Ear thermometers

- Workshop on control of infrared ear thermometers

Part C - Software

- Workshop on software control in fuel dispensers or another suitable specific area

After discussion, a compromised plan was proposed as following:

In the first session of 2010 APEC fund application, the following items would be included:



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- Workshop to report on implementation of Coriolis mass flowmeter in Singapore and develop verification test procedures for Coriolis mass flowmeters. (Host: Singapore)
- Training course on verification of volumetric bulk flow metering systems using in line master meters and pipe provers. (Host: Thailand)

Meanwhile, the WG on Training Coordination and APLMF Secretariat strongly encouraged other proposal proponents to further develop their training concept and keep close contact with Secretariat for future application.

4. Forum meeting (Sept .15 - Sept 16., 2010)

4.1. Welcome Address by Mr. Alan Johnston, President of Measurement Canada

Good morning, President Pu, Honorary Chairperson, Glenn Armstrong and ladies and gentlemen.

I have the great honor and pleasure of officially welcoming you to the 17th APLMF meeting Victoria, British Columbia—the capital city of the province of British Columbia and one of Canada’s most beautiful cities. I hope you will have the opportunity to get to know Victoria, and to explore a bit of Vancouver Island, while you’re here—especially those of you visiting for the first time.

I would also like to welcome you on behalf of the more than 300 employees of Measurement Canada.

The last time Measurement Canada hosted the APLMF was in Vancouver in 1996 and our science has undergone considerable change in the intervening 14



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years. Technology's impact has been as profound on legal metrology as it has on every other branch of science.

As a Canadian, I consider myself fortunate to live in a country where the federal government's responsibility to regulate trade measurement is enshrined in the Constitution. The first laws governing weights and measures in Canada were passed more than 125 years ago, in 1872.

In preparing this speech, I did some research into historical examples of Canada's contribution to legal metrology or metrology in general and I came upon an example of metrology which many of us use every day. For many years, British Columbia was the workplace of one of Canada's foremost innovators in the field of measurement: Sir Sandford Fleming. As the inventor of Standard Time in 1879, Sir Sandford brought rigor to our measurement of time and was instrumental at the 1884 Prime Meridian Conference held in Washington in having Standard time adopted worldwide. In doing so, he changed the way people the world over communicate and live. And of course, the adoption of Standard time allows those of you who have travelled long distances to attend this meeting to complain about **'jet lag.'**

In recent years, Measurement Canada's programs and services have continued to evolve for the benefit of all Canadians—bolstering consumer confidence; creating a positive environment for economic growth, innovation and competitiveness; and minimizing the regulatory burden.

One example is our proposed Fairness at the Pumps Act which takes three practical steps: first, it sets out mandatory inspection frequencies for weights and measures devices used by retailers; second, it allows authorized service



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providers to carry out those inspections; and third, it prescribes stiffer fines and a new graduated system of monetary penalties for retailers who violate the law. We are hoping to have this Bill passed by Parliament before Christmas of this year. Then the real work begins!

In closing, I would like to thank the individuals that have been working behind the scenes to ensure a smooth and efficient forum. My thanks to the APLMF Secretariat, and APLMF president, Mr. Pu, as well as the chairpersons of the working groups and the Measurement Canada staff involved in organizing the forum.

Finally, I would like to express my gratitude to all of you who are attending from the member economies of the APLMF or as invited guests. I hope you will find your time here in Victoria well spent.

Thank you.



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4.2. Opening Address by Mr. PU Changcheng, the APLMF President

Distinguished Mr. Alan Johnston,

Distinguished Mr. Glenn Armstrong,

Dear Ladies and Gentlemen,

Good Morning!

It gives us great pleasure to come to this beautiful city, Victoria, Canada to attend the 17th APLMF forum meeting. Let me begin by thanking Mr. Alan Johnston and colleagues of Measurement Canada 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 giving me support for past three years.

Since the 16th meeting was held at Chiang Mai, member economies together with APLMF Secretariat has made a great progress in harmonizing technical regulation requirements, promoting measurement capacity building for member economies through training courses and workshops.

In the following one and a half days, the Honorary President Mr. Armstrong and I will co-chair the forum meeting. 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.

4.3. Roll Call

Mr. Guo Su took a roll call of the participants. 51 delegates from 15 member economies and relevant organizations attended the meeting. They were: Australia, Canada, P.R. China, Indonesia, Japan, Republic of Korea, Mongolia, New Zealand, Papua New Guinea, Singapore, Chinese Taipei, Thailand, USA and Viet Nam. In



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addition, the representatives from BIML, APLAC, APMP and AFRIMET also participated the meeting.

4.4. Confirmation of the report of the 16th APLMF Meetings

The report of the 16th APLMF Meeting was approved without modification.

4.5. Report of the APLMF President

Mr. Pu Changcheng, the APLMF President, gave the President's report. At the beginning of this presentation, Mr. Pu briefly reviewed the current structure of APLMF, the status of membership and financial issue of APLMF. He then highlighted several important activities of APLMF since last meeting in 2009. In his presentation, he also emphasized the following challenges APLMF faces and called for solutions to them:

1. APLMF needs to solve the funding problem for APLMF training.
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.
3. APLMF encourages developed economies to help developing economies in improving and strengthening the legal metrology infrastructure by various flexible measures.
4. APLMF will continue to explore the possibilities of future concrete cooperation with other international/regional bodies.

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



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4.6. Report of the APLMF Secretariat

4.6.1 Activity of the APLMF Secretariat

APLMF Secretary, Mr. Guo Su reported the APLMF activities conducted since the 16th APLMF Meetings.

Year	Mon	Day	Items	Actions Taken
2009	Nov.	9	APEC Project Proposal	APEC Project CTI 46/09T "Strengthening Legal Metrology Infrastructure For Trade Facilitation" Was Ready For Implementation
		10	APLMF 17 th Meeting Preparation	The Secretariat Informed Action And Responsibilities To Contact Person Of Canada
		11	Training Course On Mass Flow Meter	The Secretariat And The Host, Singapore Start To Prepare The Training Course On Mass Flow Meter
		11	Workshop On Software Controlled Measurement Instruments	The Secretariat Were Seeking The Possibility Of Member Economy To Host The Workshop On Software Controlled Measurement Instruments
		11	Training Course On NAWI Weighbridges	The Secretariat And The Host, Indonesia Start To Prepare The Training Course On NAWI Weighbridges.
		12	APLMF 16 th Meeting Budget	The Fee For Hosting 16th Meeting Was Refund To The Host, Thailand
		12	Appreciation Letter To Host	The Secretariat Sent Appreciation Letters To CBWM, Thailand The Host Of APLMF 16th Meeting
2009	Dec.	8	Publication	Handbook On Workshop On Metrology In Food Safety, Agricultural Products Was Finished And Sent To Publication House
		10	APLMF 17th Meeting Preparation	The Secretariat And The Host, Canada Has Confirmed The Meeting Venue And Schedule.
		16	APLMF Website	The APLMF Website Was Put On Records By Ministry Of Information And Industry Of P.R. China
		16	Workshop On Software Controlled Measurement Instruments	APLMF Secretariat Start To Pre-Survey On Program Of Workshop On Software Controlled Measurement Instruments



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		17	Season's Greeting	Greeting Cards Were Sent To The Members And Related Organizations.
		21	Membership Fee For 2010	The Invoice Of The APLMF Membership Fee For 2010 Was Sent To The Full Members.
		23	Workshop On Software Controlled Measurement Instruments	APLMF Secretariat Was Calling For The Host For The Workshop On Software Examination For Metrological Controlled Instruments
2010	Jan.	11	APLMF 2010 Project	Seek Input For The 2011 Project Proposal
		14	Workshop On Software Controlled Measurement Instruments	APLMF Secretariat Was Invite PTB Experts To The Workshop On Software Controlled Measurement Instruments
		15	Survey	Survey On Mass Flow Meter Training Course Was Sent To All Member Economies
		15	APLMF 16th Meetings Documents	The Documents Of 15th Meetings Were Uploaded To Website.
		18	APLMF 16th Meetings Minutes	The First Revision Of 16th Meetings Minutes Was Sent To The Member Economies For Revising
		18	Workshop On Software Controlled Measurement Instruments	The Secretariat And The Host, Thailand Has Confirmed The Meeting Venue And Schedule.
		21	APLMF Website	APLMF Website Was Certificated By D&B Worldwide Network
		27	Training Course On Mass Flow Meter	APLMF Secretariat Was Invite Experts From Netherland To Attend APLMF's Mass Flow Meter Training Course As The Trainer
2010	Feb	1	Training Course On NAWI Weighbridges	The Secretariat And The Host, Indonesia Has Confirmed The Meeting Venue And Schedule.
		3	Training Course On Gas Meter	The Secretariat And The Host, China Has Confirmed The Meeting Venue And Schedule.
		4	Workshop On Software Controlled Measurement Instruments	The Secretariat And The Host, Singapore Start To Prepare The Training Course On Mass Flow Meter



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		8	Training Course On Gas Meter	An Announcement Of Training Course On Gas Meter On April 13-16 In Chongqing, P.R. China Was Informed
2010	Mar	3-8	APEC SCSC & SRB Meeting	Dr. Zhang Chao Represents APLMF Attended The APEC SCSC Meeting And APEC SRBs Held In Hiroshima
		9	APLMF Guidelines	The Secretariat Sent Guidelines To All Member Economies To Seek For Comments
		9	Training Course On Gas Meter	The Reminder Of Registration Deadline For Gas Meter Training Course Was Informed
		15	Training Course On NAWI Weighbridges	The Program Of Training Course On NAWI Weighbridges Was Confirmed By Secretariat, Host And Trainers
		19	Training Course On Gas Meter	The Secretariat Have Pre-Visited Chongqing For Prepare The Training Course On Gas Meter
		22	Publication	Handbook On Workshop On Metrology In Food Safety, Agricultural Products Was Published
		22	APLMF 17 th Meeting Preparation	The Secretariat Have Request Detailed Information Of 17th Meeting 2010 For Share On Website
		26	APEC Education Textbook	The Secretariat Sent APEC Education Textbook For Seek Comments
		29	APLMF 16th Meetings Minutes	The Second Revision Of 16th Meetings Minutes Was Sent To All Member Economies For Revise.
		31	United Nations Survey	The Secretariat Complete United Nations Survey On Assessing UNIDO's Role In Strengthening The Capacities Of Developing Countries In The Area Of Standards, Metrology, Testing And Quality
2010	Apr.	13-16	Training Course On Gas Meter	Training Course On Gas Meter Was Held In Chongqing, P.R. China. Over 58 Participants Including 53 Trainees From 11 Economies Attended The Training Course.
		19	MoU Between APLMF With APLAC	The Secretariat Was Seek Comments On MoU Between APLMF With APLAC From Member Economies
		19	MoU Between APLMF With APMP	The Secretariat Was Seek Comments On MoU Between APLMF With APMP From Member Economies
		19	Brunei Darussalam Request Invitation	The Secretariat Was Seek Comments On Whether Invite Brunei Darussalam To Attend APLMF Meeting
		20	APEC Project	The Accomplish Of APEC Project CTI 12/2008T Was Informed



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		20	Appreciation Letter To Host	The Secretariat Sent Appreciation Letters To AQSIQ, P.R. China The Host Of Training Course On Gas Meter
		21	Training Course On Gas Meter	A Certificate For Claiming Reimbursement For The Training Course On Gas Meter Was Sent To APEC Secretariat.
		23	Training Course On NAWI Weighbridges	An Announcement Of Training Course On NAWI Weighbridges On June 7-10 In Bandung, Indonesia Was Informed
		29	APLMF 17 th Meeting Registration	Registration For The 2010 APLMF Forum Meeting Was Opened, The Invitation To The 17th APLMF Meetings, To Be Held On September 13-16 2010 In Victoria, Canada Was Sent To The Member Economies.
2010	May	6	Training Course On Mass Flow Meter	An Announcement Of Training Course On Mass Flow Meter On July 6-9 In Singapore Was Informed
		7	APLMF 17 th Meeting Website	APLMF 17th Meeting Website Was Accomplished
		8-9	APLMF Meeting With APMP	The APLMF Secretariat And APMP President And Secretariat Have Had A Official Meeting, Focus On Possible MoU Between Two Organizations
		24	Publication	The APLMF Circular 64 Was Published
		24	APLMF 16th Meetings Minutes	The Final Revision Of 16th Meetings Minutes Was Sent To All Member Economies
		26	Training Course On NAWI Weighbridges	The Detailed Agenda Of Training Course On NAWI Weighbridges Was Informed
2010	Jun	7-10	Training Course On NAWI Weighbridges	Training Course On NAWI Weighbridges Was Held In Bandung, Indonesia. Over 66 Participants Including 51 Trainees From 10 Economies Attended The Training Course.
		13	Workshop On Software Controlled Measurement Instruments	The Draft Program Of Workshop On Software Controlled Measurement Instruments Was Confirmed By Secretariat, Host And Main Speakers
		21	Training Course On NAWI Weighbridges	A Certificate For Claiming Reimbursement For The Training Course On NAWI Weighbridges Was Sent To APEC Secretariat.



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		21	Workshop On Software Controlled Measurement Instruments	An Announcement Of Workshop On Software Controlled Measuring Instrument Was Informed
2010	Jul.	2	Appreciation Letter To Host	The Secretariat Sent Appreciation Letters To Dom, Indonesia The Host Of Training Course On NAWI Weighbridges
		6-9	Training Course On Mass Flow Meter	Training Course On Mass Flow Meter Was Held In Singapore. Over 60 Participants Including 50 Trainees From 9 Economies Attended The Training Course.
		9	APEC Project Proposal	A Discussion Of Possible APEC Project Proposal : Workshop On Bunkering Was Made Between SPRING Singapore And APLMF Secretariat
		12	Appreciation Letter To Host	The Secretariat Sent Appreciation Letters To SPRING, Singapore The Host Of Training Course On Mass Flow Meter
		13	APLMF 17 th Meeting	A Reminder Of Registration For The 2010 APLMF 17th Meeting Held On September 13-16 2010 In Victoria, Canada Was Sent To The Member Economies.
		13	APLMF 17 th Meeting	After Discussion With WG Chair, The Secretariat Informed WG Chair Meeting Will Be Held In Morning Of 13 September, And The WG Meeting Will Presided By Two Workgroup Chairpersons With The Assistance Of Secretariat.
		15	Training Course On Mass Flow Meter	A Certificate For Claiming Reimbursement For The Training Course On Mass Flow Meter Was Sent To APEC Secretariat.
		16	APLMF 17 th Meeting Program	The Secretariat Seek Comments From Member Economies About APLMF Meeting Agenda, Training Or Workshop Needs, Meeting Conclusion, Next Presidency And Secretariat And Amending APLMF MoU
		20	APLMF Award	The Secretariat Invite EC Member To Nominate Candidate(S) For APLMF Award
		22	RLMO Meeting	APLMF Secretariat Start To Work On Preparation Of Chairing The RLMO Meeting During 44th CIML Meeting
		23	APLMF 18 th Meeting	The Secretariat Invite Possible Host Of APLMF 18th Meeting, Republic Of Korea To Prepare The Introduction
		26	APLMF 17 th Meeting	The Schedule Workgroup Meeting Was Settled



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		29	Workshop On Software Controlled Measurement Instruments	The Final Program Of Workshop On Software Controlled Measurement Instruments Was Confirmed By Secretariat, Host And Main Speakers
		30	APEC Project	The Secretariat Have Finished The Completion Report(CTI 12/2008T), Monitoring Report(CTI 09/2009T, CTI 46/2009T) And Sent To APEC Secretariat
2010	Aug	3-6	Workshop On Software Controlled Measurement Instruments	Workshop On Software Controlled Measurement Instruments Was Held In Bangkok, Thailand. Over 43 Participants Including 13 Speakers From 13 Economies Attended The Training Course.
		10	Appreciation Letter To Host	The Secretariat Sent Appreciation Letters To CBWM, Thailand The Host Of Workshop On Software Controlled Measurement Instruments
		17	Handbooks	The 4 Handbooks of CTI 09/09T was final confirmed and ready to publish
		11	APLMF 17 th Meeting	A Reminder Of Registration For The 2010 APLMF 17th Meeting Held On September 13-16 2010 In Victoria, Canada Was Sent To The Member Economies.
		11	Workshop On Software Controlled Measurement Instruments	A Certificate For Claiming Reimbursement For The Workshop On Software Controlled Measurement Instruments Was Sent To APEC Secretariat.
		18	APLMF Survey	APLMF Have Sent Survey Of Follow Up To Every Participants And Contact Person Of Member Economies Of Previous Workshops And Training Courses
		23	RLMO Meeting	APLMF Secretariat Have Confirmed The Program Of RLMO Meeting
		27	Training Feedbacks Of NAWI Weighbridges	The APLMF Secretariat Has Collected And Summarize All The Feedback Of Training Course On NAWI Weighbridges
		27	Training Feedbacks Of Mass Flow Meter	The Secretariat Has Collected And Summarize All The Feedback Of Training Course On Mass Flow Meter



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		27	Workshop Feedbacks Of Software Controlled Measurement Instruments	The APLMF Secretariat Has Collected And Summarize All The Feedback Of Workshop On Software Controlled Measurement Instruments
		30	APLMF 17 th Meeting	The Details Of The APLMF Meeting Was Informed For Discussion
		31	APLMF 17 th Meeting	The Final Agenda Of 17th APLMF Meeting Was Informed
2010	Sep.	1	APLMF 17 th Meeting	The Secretariat Has Called Contact Person Of All Economies To Update APLMF Contacts
		2	APLMF 17 th Meeting	The Detailed Agenda Of Working Group Preparation Meeting Was Informed
		3	APLMF 17 th Meeting	The Training Needs From Indonesia Was Sent To Seek Comments From WG Chair
		9	APLMF 17 th Meeting	The Secretariat Has Sent All Collected Documents To All Participants For This Meeting

4.6.2 Contact points update on APLMF member economies

- ◆ Mr. Sakchai Hasamin.....Thailand
- ◆ Mr. Park In Soo.....Republic of Korea
- ◆ Mr. Dennis CW ChanHong Kong, China

4.6.3 Membership Fee

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

4.7. Presentation nominated by the host economy

The host nominated presentation was given by Mr. Gilles Vinet from Measurement Canada. The title of his presentation was ***Marketplace Monitoring or Field Surveillance.***

In this presentation, Mr. Vinet shared with participants from other member economies what Measurement Canada (MC) did with regard to Marketplace Monitoring. The contents covered the following aspects:



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1. Introduction of MC and its mission
2. What is marketplace monitoring and Field Surveillance
3. Marketplace monitoring activities and equipment, objectives
4. Risks and Challenge
5. Example of annual report of MC- Report Card

This presentation triggered the heat discussion.

Mr. Waltham asked how MC obtained the data from Authorized Service Providers (ASPs)?

Mr. Vinet indicated that all inspection work done by ASPs is entered into the MC database. He added that ASPs carry out two types of verifications: one is the initial verification, where the data on what they'd certified were obtained from ASPs and entered in the MC database. The other one was the re-verification. He highlighted the importance of data on the as-found accuracy of devices being re-verified. ASPs are required to provide that information to MC and it is also in the MC database.

Mr. Ehrlich asked whether the ASPs number was stable or variable depending on the needs?

Mr. Vinet responded that there were more than 300 ASPs and more than 100 organizations had carried out the inspection on behalf of MC. The compliance rates can vary slightly from one year to another..

Mr. Harvey thanked Mr. Vinet to give the interesting and informative presentation. Concerning the inspection, he asked if the MC staff took care of the inspection on the field or the work carried out by appointed organizations.

Mr. Vinet responded that MC conducted its own inspections but also conducted annual system audits and follow-up inspections to monitor the inspection work of



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ASPs. He also mentioned the compliance level reported by MC didn't include the follow-up inspection because MC only used unbiased inspections.

Concerning the question on whether MC had considered requiring of 17020 - *inspection body accreditation for the inspectors* raised by Mr. McInturff from APLAC, Mr. Vinet responded that there had not been considered at the moment excepted that some types of devices like electricity meters and gas meters required accreditation based on ISO 9000 or ISO 17025.

Mr. Waltham asked if the mandatory re-verification period depended on the different type of devices.

Mr. Vinet said that was right. For example, the re-verification period for fuel dispensers was two years, and for most the scales was one year.

Mr. Shu from Chinese Taipei raised two questions. One was how MC defines the poor compliance and good compliance. Was there a percentage available for the assessment? The other question was what standard was used for sending the warning letter or giving the administrative penalty directly regarding the enforcement activities.

Mr. Vinet thought these were two good questions but not easy to have exact answer. He said the guideline would be given to enforcement staff to determine what approach should be taken. They were working on this matter. There was no clear percentage to make a judgment on the poor compliance and good compliance and would like to get some information from other economies. MC would set a long-term and short-term target and tried to achieve them.

Mr. Harvey mentioned they also would like to do the test purchases, but it was contradict with the requirements in Australia which inspectors were required to



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identify themselves. He wondered How MC dealt with test purchases.

Mr. Vinet responded that MC asked the inspector to identify themselves, but it was not a legal requirement. Therefore, for anonymous test purchases, inspectors would normally dress like the ordinary person and often went with administrative personnel to do the test purchases.

Mr. Waltham asked a question related to the non-compliance. What the mechanism MC had applied when MC found the non-compliance was due to the non-conformance of the ASPs.

Mr. Vinet responded that before being recognized by MC, ASPs were required to take training and pass the test organized by MC. MC also monitored and audited ASPs every year. Suspension or revocation of the ASP's recognition might be performed depending on the situation of violation.

Mr. Vinet added that the errors associated with the usage of devices was often much bigger than the tolerance applicable to the device.

4.8. Working Groups Reports

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

4.9. Report of Specialist Regional Bodies (SRBs) - Asia Pacific Laboratory Accreditation Cooperation (APLAC)

On behalf of the APLAC, Mr. Trace McInturff from USA highlighted some activities in 2009-2010.

1. APLAC Mutual Recognition Arrangement

There were 32 signatories to the APLAC MRA from 22 economies, including



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13 for inspection, 12 for ISO 15189 and 5 for RMP in 2010.

2. APLAC General Assembly

The 2009 APLAC General Assembly and associated meetings were held in Bali, Indonesia, hosted by KAN, in the week 5-11 December 2009.

The 2010 APLAC General Assembly and associated meetings would be held in Osaka Japan, jointly hosted by IA Japan, JAB, JCLA and VLAC, in the week 4-10 December 2010.

3. APLAC Cooperation with APLMF

The initiate discussion between the two organizations about ways for closer cooperation had been carried out. The particularly area identified by the APLAC Board of Management for closer cooperation were liaison between APLMF and the calibration sub-committee of APLAC's Technical Committee, and ways in which the APLAC Mutual Recognition Arrangement (MRA) for accreditation of calibration laboratories could be used by and support the legal metrology infrastructure in the APEC region.

4.10. Report of the Bureau International de Metrologie Legale (BIML)

Mr. Kool from BIML gave updates on OIML activities in following aspects:

1. 44th CIML Meeting (Mombasa, Kenya, 27-30 October 2009)

Resolutions and minutes (including report of the Round Table on Metrological Control) available at: <http://www.oiml.org/download/>.

2. Liaison Update

- ILAC/IAF:
Renewal of OIML/ILAC/IAF MoU (Oct 2010);
- Codex Alimentarius:
CCPFV developing requirements for drained weight of canned fruits and vegetables;
- UNECE:



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Drafting of an MoU for regulatory cooperation.

3. OIML Seminar on Smart Meters (October 20-24 in Orlando, FL, USA:)
 - Election of CIML President;
 - Election of CIML Vice-President;
 - Appointment of BIML Director;
 - Proposal for project on Conformity to Type (CTT);
 - Revision of the Directives for technical work;
 - RLMO Round Table
4. Further activities:
 - Revision of OIML D 29 (Application of ISO Guide 65 in legal metrology);
 - TCSC Secretariats training (Spring 2011);
 - Seminar on CTT, in conjunction with:
 - 46th CIML meeting, October(?) 2011 in Prague, Czech Republic.

4.11. Report of the APMP

Mr. Harvey, on behalf of APMP, reported updates on activities of APMP Consultative in 2010

1. Based on a shared desire to strengthen cooperative relations for mutual benefit, the Secretariats of APMP and APLMF held an informal preliminary meeting on 7th May 2010 in Beijing, China. Both parties agreed that the basis of future bilateral cooperation could be established through a Memorandum of Understanding (MoU) between APMP and APLMF.
2. The APMP Chairperson reported on the outcomes of this preliminary meeting at the mid-year Executive Committee (EC) meeting of APMP held on 3rd July 2010 in the Philippines. The proposal to establish an MoU was supported by all EC members.
3. In order to further develop the cooperation framework, some initial suggestions from the APMP EC and Developing Economies' Committee



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(DEC) for consideration by APLMF members to support linkages between the NMI and the national legal metrology authority.

4. The 26th General Assembly and related meetings of APMP would be held on 14th - 20th November 2010 in Pattaya, Thailand.

4.12. Report of the Intra-Africa Metrology System (AFRIMET)

Mr. Geraldo Albasini, Second Vice-Chairperson of AFRIMETS reported updates on activities of APMF Consultative in 2010. His talk covered following aspects.

- § Africa, the Continent of Wonders
- § The beginning of AFRIMETS
- § The current structure
- § The membership
- § The Technical Committees and WGs

Full Member Session

4.13. Secretariat Report

The report of full member session was available only to the APLMF full members. Please visit the APLMF website for this information.

4.14. Economies' Reports

Australia

Australia highlighted some major points in the economy report.

The transition for the NMIA to take control of national trade measurement occurred on 1 July 2010. Several coordination committees had been established including the Standing Committee on Legal Metrology. The NMIA was now consulting with stakeholders about further amendments to the national legislation that would require a regulatory impact analysis. Australia also had taken responsibility for the secretariat



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of OIML TC12 on electricity meters and the next committee draft of OIML R46 on electricity meters had been circulated to TC12 members. Regarding conformity to type (CTT), Australia had proposed that OIML begin formal work on conformity to type through a new technical committee and would be discussed in 45th CIML meeting in Orlando.

In terms of training, Australia Trade Measurement inspectors were now to have 2 nationally recognized qualifications, which were Certificate IV in Government Investigation and Certificate IV in Government Trade Measurement. A Diploma of Government Trade Measurement was required for being appointed as a senior inspector. In addition, NMIA had been working with Government Skills Australia to provide Skill Sets for verifiers, which assessed the competence of private-sector verifiers who worked under license for trade measurement.

Cambodia

No participant attended this meeting.

Canada

Canada updated major issues in the economy report.

1. The Trade Sector Reviews had been updated. Measurement Canada has completed the review of the 18 trade sectors. In 1999, Measurement Canada (MC) began the review of its intervention and programs through a major consultative exercise nationwide. Measurement Canada is considering the possibility of regulating thermal energy meters (often called as heat meters) as per the recommendation of stakeholders.
2. With regards to the legislation change, penalties for offences under both the Weights and Measures Act and the Electricity and Gas Inspection Act



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would be increased to provide increased levels of deterrence against non-compliance, and MC would be authorized to issue administrative monetary penalties. More importantly, mandatory re-verification periods would be established weights and measures instruments.

3. Canada continued to be an active participant in this OIML MAA Type approval MAA and program and is in discussion with the US to extend the Canada-US Mutual Recognition Agreement (MRA) of Type Evaluation Program expiring in January 2011. The scope of this MRA would possibly be expanded to include multiple-dimension measuring devices (MDMD), in addition to non-automatic weighing instruments, electronic indicators, and fuel dispensers.
4. As of July 31, 2010, there were 162 organizations authorized to perform inspections of mass, volume, electricity and natural gas measuring devices across Canada on behalf of Measurement Canada.
5. Current progress on new sampling plan for the Compliance Sampling of In-service Electricity and Natural Gas Meters, Minimizing vapor loss during the inspection of retail motor fuel dispensers and Regulations for Water Meters were also updated.
6. To address problems related to the re-verification of Multi Customer Metering Systems (MCMS), MC had developed and published new requirements S-E-09: Specification for the Approval of Type of 80mA and 100mA class Measuring Current Transformers.
7. In early 2010, specific requirements for approved load cells were published on MC's website. And beginning in 2011, these requirements will become



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applicable to selected device types. This program was developed to improve compliance rates and as part of MC's ongoing commitment to harmonization with OIML.

People's Republic of China

The Chinese economy report covered the following aspects:

1. Reinforce energy metrology through establishing the energy measurement centers in provincial level, developing technical regulation for product energy label and drafting administrative regulation for energy measurement.
2. Improvement of the technical infrastructure by participating international comparison and organized comparison among local standards, training verification officers, and reviewed and issued technical regulations.
3. Focus on Inspections in priority areas such as trade measuring instruments, prepackaging etc.
4. Strength capacity building by organizing/participating international and domestic comparisons.
5. Continue to actively participate in CIML meeting, relevant OIML TCs' activities and closely cooperate and support APLMF activities.

Hong Kong China

There is no representative attending the Forum meeting.

Indonesia

Indonesia's economy report covered following three aspects: legislation, capacity building and international cooperation in the economy report.

1. Legislation
 - Implementation of ASEAN Common Requirement for Pre-packaged



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Products

- Expansion legal metrology activities by municipal/city governments
- Verification of kWh Meters and Water Meters by Third Parties.

2. Capacity Building

Indonesia had sent delegates to attend the 4 training course program/seminar held by APLMF and participated JICA training course on Social and Industrial Infrastructure in Legal Metrology.

3. International Cooperation

- Organized a National Seminar on “The Role Metrology in Global Trade” in facing the World Metrology Day on 20 May 2010
- Hosted an APEC/APLMF Seminars and Training Courses in Legal Metrology: Train the Trainer Course on Verification of NAWI Weighbridges.

New Zealand asked the new contact person responsible for the OIML for ASEAN regional body in legal metrology.

Indonesia responded the new contact could be Dr. Wan from Malaysia, the Chair of ASEAN WG 3.

Japan

Japan's economy report focused on the following three aspects:

1. Incorporating Technical Requirements of Measuring Instruments into the JIS

Ministry of Economy, Trade and Industry (METI) was currently reviewing and revising all technical requirements on the specified measuring instruments.

So far, technical requirements of the eight specified measuring instruments



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had been amended by incorporating the requirements into JIS. Those specified measuring instruments included taximeters, nonautomatic weighing instruments, clinical thermometers: mercury in glass, clinical electrical thermometers, meters for cold and hot water, non-invasive automated sphygmomanometers, fuel oil flow meters, and illuminance meters.

2. Participation in the MAA Program

In 2009, NMIJ obtained accreditations by IAJapan (International Accreditation Japan) for entire scope of DoMCs of R60 and R76 based on the ISO/IEC 17025 and Guide 65. At the same time, the scope of the testing capability for load cells (R60) was extended up to 20 t by reflecting a capacity of a new testing facility.

3. Other Activities in Metrology in 2009

NMIJ had conducted a training course on legal metrology in association with the Japan International Cooperation Agency (JICA) in Japan over three months. In August 2010, NMIJ conducted a four-day JICA complementary course in Malaysia hosted by SIRIM Berhad and also supported APEC/APLMF activities by providing a speaker to attend the Workshop on Software Controlled Measuring Instrument held in August 2010 in Thailand.

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.

- **Measures Act**



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

This year KATS was working with local government officials to inspect the full range of legal measuring instruments, including non-automatic weighing instruments and road and rail tankers. Regular inspections of such instruments were carried out every two years.

- **Use of SI Unit**

Korea had prohibited the use of non-SI units in business transactions. However, local units were still used and cause confusion. KATS had put some advertisement on various public media to encourage the public to use SI units.

- **Prepackaged Products**

KATS was authorized under the Measures Act to promote and enforce the use of SI units for 26 prepackaged products (detergents, beverages, etc.) and to verify that all quantities stated on product labels fall within a certain allowable tolerance limit.

In 2009, KATS conducted an inspection involving 425 marketplace samples of the 26 items, which were then sent to accredited testing laboratories for analysis.

- **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.



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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).

- **Standard Reference Data (SRD)**

Standard Reference Data (SRD) was quantitative data that had been verified as reliable and accurate for use in technical problem solving, industrial applications, research and development.

KATS had supported various activities related to the development and distribution of SRD through its 17 data centers: research institutions operating in the fields of metals, materials, energy and healthcare.

- **Workshop on the National Standards System and Precision Measurement Technology**

The Workshop on the National Standards System and Precision Measurement was held from April 15 to May 1, 2010, at the Korea Research Institute of Standards and Science (KRISS).

- **Training**

In 2010, KATS organized four workshops for inspectors and other personnel from local governments and verification laboratories. KATS also planned to strengthen cooperation with other national metrology institutes and to participate in international conferences, workshops and training programs.

Malaysia

No representative from DPRK attended forum meeting.

Mongolia

Representatives from Mongolia attended the forum meeting and no report presented.

New Zealand

New Zealand highlighted main issues in the economy report.



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On the 1st April 2010, several minor changes to the Weights and Measures Regulations 1999 came into force. A number of changes were in relation to the adoption of OIML MPE's or terminology.

In June 2010, the Ministry of Consumer Affairs released a discussion paper seeking submissions on several consumer laws that deal with the purchase of goods and services. One of the specific aims of the review was to look at the feasibility of consolidating the various Acts into one Act.

In 2010, a total of 54 Approval Applications including 24 Overseas Based Approvals, 15 Variant Approvals, 15 In-Situ Approvals were processed and completed. The assessment and approvals work supported New Zealand business and could help resolve weighing and measuring problems and help manufacturers with design issues.

On 24-26 November 2009, a Regional Workshop on Metrology Legislation for the Pacific Islands hosted and largely presented by MAPSS was held in Auckland with the sponsor of PTB. The workshop was developed in response to issues identified in an Asia-Pacific Legal Metrology Forum Pacific Island States workshop held in Australia in October 2008.

On 12 - 14 April 2010, a Senior MAPSS Officer delivered an OIML R79, R87 training in Kuwait and there were 29 participants from National Standards bodies (NSBs), Gulf Standardization Organization (GSO) attending the training.

Australia expressed their strong support for MAPSS in retaining the separate measurement legislation and believed that combination of legislation would make the harmonization with Australia Trade Measurement and measurement legislation very difficult.



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Papua New Guinea

Mr. Victor Gabi from Papua New Guinea (PNG) highlighted legal metrology issues since last meeting. He mentioned that metrology division were small that combines the chemical and physical metrology. PNG actively sent staff to participate in APLMF trainings and seminar. In 2010, two new scientists had joined the metrology division. PNG also had considerable cooperation with NMIA in both physical and chemical metrology. The metrology division reached an understanding with government to obtain the economic support. Mr. Gabi also talked about the national training program, accreditation and calibration and verification service in PNG. Biggest issues PNG had faced were gas meters and gas metering because the large pipeline project was rolling out.

Philippines

Representatives from Philippines attended the forum meeting and no report presented.

Russian Federation

Delegates from Russia Federation were absent.

Singapore

Ms. Lena Soh highlighted the verification of CNG dispensers in the economy report. Singapore conducted a training workshop on verifying CNG dispensers on 18 November 2009 to impart the knowledge learnt in the APLMF training programme. An article on the workshop was published in the APLMF Circular, No 64.

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 in 2010. The key points of legislation included:

- The technical regulation for inductive loop speedometers was promulgated in December 2009 and took effect on April 1, 2010.
- The revising regulations were expected to take effect on Jun. 1 2012. Washing powder with mass from 5 grams to 10 kilograms would be subject to legal metrological control.
- Sampling Verification on Electrical Thermometers
- Advanced Meters and Electricity Meters of Electric Vehicle Charging Station
- Revision on Other Technical Regulations

2. Proficiency Testing on Diaphragm Gas Meters verification Lab

Verification on diaphragm gas meters could be performed either by BSMI or self-verification laboratories. In order to ensure the equivalent of measurement, BSMI conducted proficiency-testing program among those labs and expected to finish by 2011.

3. Metrology Education

Four sessions of training were conducted in 2010 and focus on the verification skills of Inductive loop speedometers for law enforcement, weighting instruments, diaphragm gas meters, and uncertainty of measurement. BSMI also sent participant to attend gas meter training course in Chongqing, China in April, 2010.

4. Metrological Personnel Certificate



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In order to enhance the quality of metrological practice and strengthen the ability of metrological personnel, metrological personnel certificate was introduced to identify the qualification of metrological personnel.

Thailand

Thailand reported legal metrology activities in following five aspects:

1. Revision of Weights and Measures Act

Department of Internal Trade had made a proposal to revise the Weights and Measures Act to develop “ Pattern Approval “ system in Thailand. The revised Act was under the consideration of the Office of the Council of State.

2. Improvement of Infrastructure

Department of Internal Trade was establishing the Southern Weights and Measures Center and would be able to provide calibration, verification and inspection services in southern region of Thailand at the end of the year 2010. A new test rig for large flow meters at the Eastern Weights and Measures Center was set up and expect to be operated by Nov. 2010.

3. Permission of manufacturers to carry out initial verification

Department of Internal Trade had issued licenses to 6 water meter manufacturers, 1 fuel dispenser manufacturer, 2 measuring tape manufacturers and 1 spring scale manufacturer. Next year, DIT was going to issue the license to truck scale manufacturer, LPG dispenser manufacturer and CNG dispenser manufacturer.

4. Improvement of Rice Moisture Meters

Department of Internal Trade in co-operation with manufacturers of rice moisture meters had been studying on the measurement of moisture of



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various kinds of rice. Meanwhile, Department of Internal Trade was upgrading its facilities in order to be able to measure the moisture content of corn (maize) and revising the regulation to expand its scope to cover the moisture measurement of corn.

5. Co-operation with APLMF

Official form weights and measures department had attended various training courses organized by APLMF and DIT in co-operation with APLMF organized the Workshop on Software Controlled Measuring Instruments in Bangkok on 3-6 August, 2010.

United States of America

USA highlighted seven items of the economy report.

1. Development of Hydrogen Measurement Standards

In July 2010, the National Conference on Weights and Measures approved a tentative code of legal metrology requirements for hydrogen equipment and fuel quality. U.S. National Work Group (USNWG) planed to continue its work through 2012 to refine and finalize this codes and related test procedures,

2. Harmonization with OIML Requirements

The United States continued its efforts toward harmonization of its legal metrology requirements with those of the International Organization of Legal Metrology (OIML).

3. Development of a new ANSI standard for Gas Meters

A new performance-based standard for gas meters that would cover all metering technologies was being developed, which would be based on the latest draft of OIML R137 "Gas Meters".



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4. Belt-Conveyor Scales

NIST had revised several parts of handbook of Belt-Conveyor Scale Code. It was import because it was difficult to deal with accurate of zero-load tests.

5. 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.

6. 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. In August 2010, the FDA made a decision that the net quantity of content statement on pelletized frozen desserts shall also only be declared in terms of net weight.

7. Seed Count for Agricultural Seeds

NIST and the NCWM were in the process of amending Handbook 133 regulation to provide for a uniform, practical, and accurate method for conducting inspections of specified agricultural seed varieties when labeled and/or sold by “count.”

Viet Nam

Viet Nam updated current status, development of legal metrology and action plan in 2010.

1. Current status and development of legal metrology

1.1 Law and regulations



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The Draft of Law on metrology had been passed by Standing Committee of National Assembly and would be submit to National Assembly for the first time on October, 2010.

- Issued Circular on metrology and quality management on trade of petrol.
- Issued Circular on metrology and quality management on trade of LPG.

1.2. Participation in APLMF Seminar and Training Courses

Vietnam participated in the seminar and training programs held by APLMF

In the year of 2011

- Submit Draft of Law on metrology to National Assembly for approval.
- Submit Draft of Decree for implementing articles of Law on Metrology to the Government.
- Issue 30 biding technical specifications on metrology, based on OIML recommendations.

4.15. Other issues

Singapore would provide a template regarding the benchmarking exercise and pass it to APLMF Secretariat for circulation to APLMF members.

In terms of the training proposal next year, Mrs. Haire pointed out although the training courses associated with flow meter would be the main contents for the next year's proposal to APEC, there were the risk that the proposal would be turned down by APEC. Therefore, she encouraged the other project proponents continue to fully develop their proposal as the backups.

4.16. Future Meetings

Dr. Nam Hauk confirmed that the 18th APLMF Meeting would be held in Korea in September. The Candidate venue was Seoul. A brief introduction clips of the Seoul



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was played and introduction booklets on Seoul were available for all participants. All Participants accepted this invitation by giving a round of applause.

The honor Chair encouraged members to think about the possibility to host the 2012 APLMF meeting.

4.17.2011 Working plan

Dr. ZHANG Chao from APLMF Secretariat introduced the APLMF 2011 working plan. This plan included three parts: Part 1: Work have been done and to be carried out by Working Groups; Part 2: Work have been done and to be carried out by APLMF Secretariat; Part 3: Comments and Suggestions. All items had been reviewed by participants.

Mr. HAN Jianping from China made the comments on this work plan. He pointed out that the objective of the working plan was to meet the demands from member economies. APLMF had been successful in organizing the training course and other tools to benefit member economies as possible as we could. But each economy had their own interesting although they had a lot of common concerns. Therefore, he proposed to take the current work plan as APLMF collective actions, and added APLMF individual actions for a small group or one-to-one economies. The further explanation on what APLMF could do for individual actions was as follows:

- Platform for exchange information of demands and supports
- Make sure for individual actions by means of APLMF work plan
- Seek funding to support individual action , or encourage the supporting economy contribution
- Advice to individual actions for their carry out
- Monitoring the progress of individual actions and report to APLMF

APLMF Secretariat thanked Mr. Han for his valuable inputs and would continue to



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improve the work plan to serve the member economies.

Mrs. Haire asked if the proposal on introducing the registration fee for the training course would be included in the next year's work plan.

APLMF Secretariat responded that it would be considered and surveyed among member economies.

Mr. Johnston suggested the APLMF secretariat prepare the survey to enquire the comments from member economies as early as they could so all member economies had enough time to consider this issue and APLMF could have clear information on all member's positions at the next year's meeting.

4.18. Closing Address

Mr. Glenn Armstrong, the Honorary Chair, made the closing remarks at the end of the meeting. He expressed his appreciation to all delegate to participant this forum meeting. He also thanked APLMF President Mr. Pu Changcheng and APLMF Secretariat to organize and coordinate this forum meeting.

He pointed out that it was the honor for Measurement Canada to host this meeting. With every passing forum meeting, members moved closer to the worldwide legal standards that helped people to ensure fairness in measurement and trade for all member economies. As the role became increasingly complex and trade increasingly became much more global, APLMF needed to observe legal metrology international standard had become more important than ever before. He asked all participants to build professional networks established and strengthened in Victoria to continue the discussions with colleagues in member economies after going back. Finally, he wished all participants having an enjoyable stay in Victoria and a safe trip back as well.

Mr Pu, the APLMF President, gave a conclusion address. He noted that in the past



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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.

He also suggested that APLMF member should pay more attention to global emerging topics such as climate change, energy conservation, food safety etc. to meet the needs of social and economic development. He encouraged all member economies actively put forward constructive comments and suggestions related to APLMF work and instructed the Secretariat to organize the specific working group to discuss and study for those good proposals.

He added that since the APLMF Presidency and Secretariat was now in the General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ), AQSIQ would continue to support activities of APLMF in terms of both financial and human resource.

Finally, he expressed his deeply gratitude to the honorary Chair, Mr. Glenn Armstrong, colleagues in Measurement Canada, 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.