Report of the Eighth Meeting
& Working Groups Meetings

Auckland, New Zealand
13 – 15 November 2001
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# ASIA–PACIFIC LEGAL METROLOGY FORUM

## PROGRAM

EIGHTH ASIA–PACIFIC LEGAL METROLOGY FORUM & WORKING GROUPS MEETINGS

13 – 15 November 2001

Hyatt Regency Hotel
Auckland, New Zealand

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<td>19:00 – 23:00</td>
<td>Cocktails and farewell reception/dinner hosted by Mr Keith Manch General Manager, Ministry of Consumer Affairs</td>
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**Coffee/tea and lunch breaks**
- Morning coffee/tea break: 10:30 – 10:45
- Lunch break: 13:00 – 14:00
- Afternoon coffee/tea break: 15:30 – 15:45
AGENDA

EIGHTH ASIA–PACIFIC LEGAL METROLOGY FORUM MEETING

14 – 15 November 2001

Hyatt Regency Hotel
Auckland, New Zealand

14 November 2001
09:00 – 10:00 Official opening ceremony by
Hon. Jim Anderton
Deputy Prime Minister of New Zealand

Chairman: Mr Keith Manch
General Manager, Ministry of Consumer Affairs, New Zealand

1. Welcome address by Mr Keith Manch, General Manager, Ministry of Consumer Affairs

2. Opening remarks by Mr John Birch AM President, APLMF.

3. Roll call of members – attendance/apologies of members at Forum meeting.


5. Report of the APLMF by the President, Mr John Birch AM, including report by the APLMF Executive Committee.

6. Update on implementation of the Memorandum of Understanding for members of the Asia–Pacific Legal Metrology Forum.

7. Report of the Working Groups meetings held on 13 November 2001:
   7.1 Mutual Recognition Arrangements
   7.2 Training
   7.3 Goods Packed by Measure
   7.4 Rice Moisture Measurements
   7.5 Intercomparison testing and calibration    7.6 Utility Meters
8. Report on progress of the Forum Work Plan:

**Work Program for 2000/2001**

1) The train-the-trainer courses for the pattern approval and for the verification of non-automatic weighing instruments be promoted and that further workshops be run as requested;

2) To ensure that areas of inconsistency between economies identified through the results in the inter-comparison (e.g. the interpretation of the checklist) be adequately covered in future training courses;

3) An APLMF train-the-trainer course for the verification of fuel dispensers and LPG dispensers be completed, trialed and run in China in March 2001;

4) Run a workshop or seminar on accreditation and quality certification on legal metrology aimed at highlighting possible issues in particular those concerning:
   - Certifiers of private sector verifiers of weighing and measuring equipment; and
   - Certification of packers of goods packed by measure.

5) That training priority should be given to the following areas:
   - High capacity weighing;
   - High capacity flow measurement;
   - Goods packed by measure; and
   - Measurement of uncertainty in legal metrology

6) Consideration be given to organising a seminar/workshop for training providers in legal metrology throughout the region.

7) Consideration also be given to organising in the future, training courses on:
   - Standards laboratories officers training;
   - Compressed natural gas dispenser pattern approval and verification;
   - Vehicle speed measuring devices and evidential analysis devises.

8) The APLMF be actively involved with the OIML TC on electricity meters and keep members informed on developments in this area.

9) Support the OIML development of a Recommendation on Statistical Sampling.

10) The APLMF note the development in OIML and WELMEC on revision of requirements for goods packed by measure and support continued cooperation to develop requirements that facilitates trade in goods packed by measure.

11) That a speaker be invited to address the next Forum meeting on the importance of metrological control of medical measuring instruments particularly sphygmomanometers. It was noted that Austria held the secretariat for this OIML recommendation and could be invited to give the presentation.

12) Conduct a study of the rice measurement control system of Japan in the last week in August 2001.
13) Seek funding from the APEC SCSC to continue the project after the study tour of Japan.
14) That APLMF support the OIML revision of the recommendation on taximeters.
15) That the report on non automatic weighing instruments, which had been finalised and circulated to members be sent for publication in the OIML Bulletin.
16) The report on load cells be finalised and circulated to members.
17) The intercomparison testing of mass standards and master meters commence as soon as possible.
18) Request the OIML to finalise the revision of Document on the Law of Metrology
19) Consider ways to involve consumers in Forum activities.
20) Support the work of TC 3/SC 5 in developing the Mutual Acceptance Arrangements (MAA) on Test Reports.
21) Survey action being taken by member economies to ensure compliance of production instruments with type.
22) Survey member on the establishment of a Working Group on Application of weighing bulk commodity shipping to replace draft survey.
23) Develop a project on economic analysis of legal metrology with the aim of setting priorities based on economic and social impacts.
24) Circulate information to member economies on Measurement Canada’s Market Place Intervention Model (available on the internet).
25) Provide reports to members on WTO review of TBT agreements.
26) Attend OIML and CIMIL meetings and provide reports on Forum meetings to the OIML bulletin.
27) Provide reports to APEC SCSC and attend at least one meeting a year.
28) Exchange information with other specialist regional bodies and attend the annual meetings where appropriate.
29) Exchange information with other regional legal metrology organizations (RLMOs) and attend coordinating meetings with RLMOs.
30) Pursue opportunities for obtaining funding for the development of legal metrology in the region.
31) Strengthen the policy focus of the Forum meetings.
32) Support the organization of the 8th Forum meeting.

9. Discussion on topic nominated by host economy – “Consumer involvement in legal metrology” by Lesley Harwood, Advisor on consumer representation, Ministry of Consumer Affairs, New Zealand. (Paper to be presented on Thursday 15 November 2001 from 10.00 – 11.00 am).

10. Country Report presentation by member economies: “Update on current developments in the legal metrology system”.

11. Development of programs in other areas of legal metrology.
12. Discussion on APEC Standards and Conformance issues and report of meeting between Specialist Regional Bodies (SRBs) (APLAC, APLMF, APMP, PAC, PASC) and APEC Standards and Conformance Sub-Committee and (b) Presentation of reports by SRBs.

13. Discussion on OIML issues.

14. Discussion on liaison with other regional legal metrology organisations.

15. Discussion on bilateral and multilateral assistance for development of legal metrology in the region.

16. Discussion on APLMF finance – including (a) subscriptions, (b) expenditure and (c) fees for 2002.


- Dr Akira OOIWA, Director, Mechanical Metrology Division, National Metrology Institute of Japan (APLMF President designate);

- Kazua NEDA, Chief, Legal Weighing Metrology Section, Mechanical Metrology Division (APLMF Secretariat designate);

- Miss Ayako TANIGUCHI, International Affairs Department, International Metrology Cooperation Office (APLMF Secretariat designate).

19. Address by the President-elect, Dr Akira OOIWA.

20. Date and location of next Forum meeting in 2002.

21. Concluding remarks by the Chairman of the Forum meeting.

22. Any other matters.

23. Conclusion of eighth Forum meeting.
ASIA-PACIFIC LEGAL METROLOGY FORUM

REPORT OF THE EIGHTH FORUM MEETING

Official Opening of the Forum

The Forum was officially declared open by Mr Keith Manch, General Manager, Ministry of Consumer Affairs on behalf of Hon Jim Anderton, Deputy Prime Minister of New Zealand. Mr Keith Manch then delivered his welcome address to participants of the Forum in his capacity of General Manager, Ministry of Consumer Affairs and Chairman of the Forum meeting.

1. Opening Speech to the 8th APLMF Forum by Hon Jim Anderton, Deputy Prime Minister

1.1 He welcomed the member delegations and observers of the APLMF and the Pacific Island Economies to the 8th Forum meeting in Auckland and thanked the officials of the Ministries of Consumer Affairs and Foreign Affairs and Trade for the work that enabled participation at these important meetings in Auckland.

1.2 He spoke on the importance of legal metrology, which can provide some of the standards by which civilized society can provide a fair environment for trade, justice and the social well being of its citizens and the need for a strong infrastructure to support innovation and enterprise.

1.3 He highlighted the work of the APLMF in the areas of training, intercomparison testing, development of mutual recognition arrangements between economies in facilitating trade and legal measurements in the areas of health, safety and the environment.

1.4 The full text of the address is attached in Appendix 1.

2. Address by Mr Keith Manch, General Manager, Ministry of Consumer Affairs and Chairman of the Forum meeting.

2.1 In his address, Mr Manch emphasized the two issues that were central to this meeting that will be addressed were an effective trade measurement system and globalisation.

2.2 He emphasized that measurement is fundamental to a modern economy and that good standard measures underpin much of modern human endeavour. He
spoke of the pace and increase of globalisation and the role of the APLMF in contributing to the sharing of knowledge, skills and techniques and consumer confidence.

2.3 The full text of the address is attached in Appendix 2.

3. Roll call of members – attendance/apologies of members at Forum meeting.

3.1 A total of seventy six delegates and observers from nineteen APLMF economies attended the Forum meeting including international and regional organizations.

3.1.1 Delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, PR China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Papua New Guinea, Russia, Singapore, Chinese Taipei, Thailand, USA and Vietnam.

3.1.2 The international and regional organizations which attended were:

APLAC (Asia-Pacific Laboratory Accreditation Cooperation), ASEAN (Association of South East Asian Nations) secretariat, Bureau Internationale De Metrologie (BIML), COOMET (Cooperation for Metrology) and SADCMEL (Southern African Development Community Cooperation in Legal Metrology).

3.1.3 The PTB (Physikalish-Technishe Bundesanstalt) also attended.

3.1.4 A total of six observers from the Pacific Island Economies, namely Cook Islands, Fiji, Kiribati, Western Samoa, Solomon Islands and Tonga also attended.

3.2 The Forum noted that apologies were received from the following:

3.2.1 Philippines – Mr Rodrigo Dacuyan, ITDI (received during the meeting).

3.2.2 Chairman Asia-Pacific Metrology Program – Dr H Imai.

3.3 The list of delegates and observers is attached in Appendix 3.


4.1 The delegates confirmed and adopted the Report of the Seventh Forum meeting.

5. Report of the APLMF by the President, Mr John Birch AM, including report by the APLMF Executive Committee.
5.1 Mr Birch reported on the progress of programs and activities of the Forum. He stated that the past twelve months have been very productive both in terms of program delivery and organization development.

5.2 On program achievements, he highlighted the following:

5.2.1 The successful presentation of the train-the-trainer course on Verification of Petroleum and LPG Fuel dispensers held in Beijing in May 2001 presented and organised by the National Standards Commission, NSC (Australia) and the China State Bureau of Quality and Technical Supervision.

5.2.2 The NSC has also obtained funding to present in Hanoi in May 2002 the train-the-trainer course on Verification of Non-Automatic Weighing Instruments based on OIML R76.

5.2.3 The completion of the APLMF Study Tour to Japan on metrological control of rice moisture measurements in October 2001 and the approval of funding from APEC TILF for Stage 2 of this project.

5.3 He stated that the APLMF had achieved a number of significant organizational developments with the introduction of a fee structure aimed at making APLMF largely financially self-reliant, the transfer of the Presidency and Secretariat functions from Australia to Japan, the hosting of the 9th by Vietnam and the 10th Forum meeting by Japan and the establishment of sub-regional legal metrology forums in ASEAN and the SW Pacific.

5.4 Mr Birch also listed a number of challenges facing legal metrology which needs to be addressed in order that it can further provide confidence and add value to a wide range of transactions which support efficient markets and government regulation.

5.5 Finally he thanked all members for their support for Forum activities and programs and Mrs Loon Khoo for ensuring the efficiency and effectiveness of Forum meetings.

5.6 The President’s report is attached in Appendix 4.

6. Update on implementation of the Memorandum of Understanding for members of the Asia-Pacific Legal Metrology Forum.

6.1 This was discussed in association with agenda no. 16.


7.1 Working Group on Mutual Recognition Arrangements

Dr Charles Ehrlich (USA) chaired the meeting. The meeting noted:
7.1.1 The report presented by Dr Ehrlich on Mutual Acceptance Arrangement (MAA), highlighting the use of test data and the role of the Issuing Authority to accept test data.

7.1.2 Information on the Declaration of Mutual Confidence (DoMC) and the process for establishing a DoMC and the use of ISO/IEC Guide 17025 and 65.

7.1.3 The key modifications to the 7th draft which included among other things, the substitution of self assessment or declaration with peer assessment.

7.1.4 That the proposed MAA was based on the issuing of test reports by Issuing Authorities that participate in the OIML Certificate System (with the acknowledgement of their participating CIML member).

7.1.5 Noted the bilateral arrangements on Mutual Acceptance of test reports for non automatic weighing instruments, load cells and fuel dispensers signed recently between Dr Judith Bennett, NSC Australia with the UK and the Netherlands and the NSC with the MCA, New Zealand, on mutual acceptance of test reports on non automatic weighing instruments.

7.1.6 The Forum endorsed the following resolutions of the Working Group.

Resolution 1
The Forum requested that consideration be given to the involvement of other members of the OIML in the MAA other than those who participate in the OIML Certificate System.

Resolution 2
The APLMF agreed to continue to support the OIML development of the MAA and not develop a regional MAA.

7.1.7 The text of the report is attached in Appendix 5. The list of delegates and observers to the Working Group meeting is attached in Appendix 3.

7.2 Working Group on Training

Mrs Marian Haire (Australia) the Regional Training Coordinator chaired the meeting.

The meeting noted:

7.2.1 The report on training activities during 2001 which included the APLMF train-the-trainer course on Verification of Petroleum and LPG Fuel dispensers held in Beijing in May 2001, the organization of training courses for weights and measures inspectors in Australia, and
the proposed train-the-trainer course on Verification of Non-Automatic Weighing Instruments based on OIML R76 to be held in Vietnam.

7.2.2 The training activities in member economies:

7.2.2.1 John Barker (New Zealand) informed members that a seminar for private sector verifiers using APLMF materials was conducted.

7.2.2.2 Louis Straub (USA) informed members that the NCWM was working with the NIST on training.

7.2.2.3 Dr Ehrlich (USA) spoke on training with SIM.

7.2.2.4 John Birch (Australia) proposed that training on Prepacked Goods be developed.

7.2.2.5 Michael Ong (Singapore) proposed that training be developed for CNG as this was not covered in the Beijing training course.

7.2.2.6 Dr Judith Bennett (Australia) informed members on the national testing facility for CNG being developed at the NSC which will be ready by March 2002 and that training for APLMF could be provided in Australia, using this facility, if required in the future.

7.2.2.7 John Birch (Australia) informed members that the ASEAN Working Group on Legal Metrology meeting held earlier in the week had also discussed the importance of training in ASEAN economies.

7.2.3 The Forum endorsed the recommendations of the Working Group that:

**Recommendation 1**
The train-the-trainer courses for the verification of non-automatic weighing instruments be presented in Hanoi for five days starting on Monday April 8, 2002.

**Recommendation 2**
Consolidation of training courses based on existing packages either as train-the-trainer courses or as one-day courses be carried out.

**Recommendation 3**
The train-the-trainer module, based on OIML R 117 for the Verification of Fuel Dispensers be completed and distributed.

**Recommendation 4**
Training in utility meters be investigated.
7.2.4 The text of the report is attached in Appendix 6. The list of delegates and observers to the Working Group meeting is attached in Appendix 3.

7.3 **Working Group on Goods Packed by Measure**

Mr John Barker (New Zealand) chaired the working group meeting.

The meeting noted:

7.3.1 The working group activities including the work program for 2001/02, the submission of comments to OIML TC 6 and the survey on participation in the work of the working group.

7.3.2 The results of the survey of economies has resulted in six responses being received.

7.3.3 The redraft of OIML R 87 and issues relating to standard package sizes and unit pricing.

7.3.4 The Forum endorsed the recommendations of the Working Group:

*Recommendation 5*
Follow up the recent survey of APLMF economies seeking to establish within each economy who is the contact for goods packed by measure.

*Recommendation 6*
Prepare and publish a register of officials who are the contact in each economy for goods packed by measure.

*Recommendation 7*
When required by the President, prepare any required submission of comments on the redraft of R 87 or the proposed IQ Mark to TC 6.

*Recommendation 8*
Keep the Secretariat informed of all correspondence with the working group.

*Recommendation 9*
Maintain relationships with other regional legal metrology organisations such as WELMEC WG 6.

*Recommendation 10*
Prepare a report for the ninth APLMF meeting on issues relating to goods packed by measure including regulating prescribed sizes and unit pricing.

7.3.5 The text of the report is attached in Appendix 7. The list of delegates and observers to the Working Group meeting is attached in Appendix 3.
7.4 Working Group on Rice Moisture Measurements

Mr Issei Akamatsu (Japan) chaired the working group meeting.

The meeting noted:

7.4.1 The report of the APEC TILF funded study tour to Japan on the metrological control of rice moisture measurement conducted with nine participants from seven economies namely PR China, Indonesia, Republic of Korea, Malaysia, Philippines, Thailand and Vietnam on

7.4.2 The timeline of the working group activities from October 2000 to March 2002 including the compilation of reports by the participants on the study tour by January 2002 and the final publication of the report in March 2002.

7.4.3 That the Working Group was successful in obtaining funding from the APEC TILF account for Stage 2 of the rice moisture project.

7.4.4 The text of the report is attached in Appendix 8. The list of delegates and observers to the Working Group meeting is attached in Appendix 3.

7.5 Working Group on Intercomparison Testing and Calibration

Mr John Birch AM (Australia) chaired the Working Group meeting.

Mrs Loon Khoo presented the reports of the intercomparison calibration and testing of non-automatic weighing instruments, mass standards, load cells and master meters.

The meeting noted:

7.5.1 That the report on intercomparison and testing on non automatic weighing instruments had been finalised and circulated to members at the last meeting and that a copy had been sent for publication in the OIML Bulletin.

7.5.2 The request from New Zealand to conduct another intercomparison testing on non automatic weighing instruments and that members give consideration to commencing the testing should there be sufficient interest in participation from members.

7.5.3 That the intercomparison of mass standards will commence soon by the National Standards Commission.

7.5.4 That the report on the intercomparison of load cells could not be finalised as not all reports were received and urged those members
who have not sent in their reports to the Coordinator of the intercomparison (Australia) to do so by the end of December 2001.

7.5.5 That participating members in the intercomparison testing of master meters were not ready to undertake the intercomparison and that the funding for the project had been returned to the Australian government.

7.5.6 The text of the report is attached in Appendix 9. The list of delegates and observers to the Working Group meeting is attached in Appendix 3.

7.6 Working Group on Utility Meters

Mr Gilles Vinet (Canada) chaired the Working Group.

The meeting noted:

7.6.1 The presentation by Mr Vinet on the summary of the regulations applicable to utility meters in each of the APLMF economies and an outline of the OIML work related to utility meters.

7.6.2 The results of a survey recently conducted by the APLMF regarding electricity meters which considered the current requirements in APLMF countries.

7.6.3 The requirements of the IEC standard and the IEC philosophy which is different from the traditional legal metrology and OIML philosophy with regard to the applicable tolerances for influence factors. Since it appears that the IEC is unlikely to change its philosophy, it is important that APLMF and OIML members be informed of these very significant differences so that legal metrology regulators select the proper accuracy classes in order to obtain the desired level of accuracy.

7.6.4 That Technical Committee 12 is currently revising IR 46 which had its last meeting in October, chaired by Sweden.

7.6.5 The meeting accepted the recommendations of the Working Group and endorsed the following resolutions.

Resolution 3

That Canada prepare a survey to identify and prioritize the specific needs of APLMF members with regard to utility meters. The survey will also identify for each member state, the level of regulation for specific metrological areas. This survey will allow the Utility Meter Working Group to identify work priorities and provide APLMF members with information that could enable them to seek specific legal metrology program information from other members. Canada will send the draft survey to Australia, Japan, New Zealand, and Russia for
review and input. The finalized survey will then be distributed to all
APLMF members for completion.

Resolution 4
The Forum expresses its concern that the IEC Class 2 Standards for
electricity meters can result in unacceptably high field errors when
influence factors are taken account. The Forum believes that lower
MPEs are more appropriate for the needs of consumers and industry.

7.6.6 The Forum accepted the recommendation of the Working Group.

Recommendation 11
It was agreed that Australia prepares an information sheet on
electricity meter standards that would express the Forum’s concerns at
the IEC’s unacceptably high allowable MPEs. The working group
requests Forum members to communicate these concerns to their
national IEC members. Reference was made to the need to ensure the
desirability of cost-benefit for consumers in the practical application
of lower MPEs.

7.6.7 The text of the report is attached in Appendix 10. The list of delegates
and observers to the Working Group meeting is attached in Appendix
3.


8.1 Mr Michael Ong (Singapore) proposed that a format listing the activities,
details of the activities and the required action be used in the reporting of the
work program in future.

Work Program for 2000/2001

1) The train-the-trainer courses for the pattern approval and for the verification of
non-automatic weighing instruments be promoted and that further workshops be
run as requested;

   Discussed under Working Group on Training.

2) To ensure that areas of inconsistency between economies identified through the
results in the inter-comparison (e.g. the interpretation of the checklist) be
adequately covered in future training courses;

3) An APLMF train-the-trainer course for the verification of fuel dispensers and
LPG dispensers be completed, trialed and run in China in March 2001;
   Training course conducted in May 2001.

4) Run a workshop or seminar on accreditation and quality certification on legal
metrology aimed at highlighting possible issues in particular those concerning:
- Certifiers of private sector verifiers of weighing and measuring equipment; and
- Certification of packers of goods packed by measure.

*Discussed under Working Group on Training.*

5) That training priority should be given to the following areas:
- High capacity weighing;
- High capacity flow measurement;
- Goods packed by measure; and
- Measurement of uncertainty in legal metrology.

*Discussed under Working Group on Training and in the ASEAN Working Group on Legal Metrology.*

6) Consideration be given to organising a seminar/workshop for training providers in legal metrology throughout the region.

*To retain this proposal as an activity under the Working Group.*

7) Consideration also be given to organising in the future, training courses on:
- Standards laboratories officers training;
- Compressed natural gas dispenser pattern approval and verification;
- Vehicle speed measuring devices and evidential analysis devises.

*These proposals will be retained in the Work Program.*

8) The APLMF be actively involved with the OIML TC on electricity meters and keep members informed on developments in this area.

9) Support the OIML development of a Recommendation on Statistical Sampling.

10) The APLMF note the development in OIML and WELMEC on revision of requirements for goods packed by measure and support continued cooperation to develop requirements that facilitates trade in goods packed by measure.

11) That a speaker be invited to address the next Forum meeting on the importance of metrological control of medical measuring instruments particularly sphygmomanometers. It was noted that Austria held the secretariat for this OIML recommendation and could be invited to give the presentation.

12) Conduct a study of the rice measurement control system of Japan in the last week in August 2001.

*Study completed.*
13) Seek funding from the APEC SCSC for Stage 2 of the project after the study tour of Japan.

An application for funding was submitted to APEC SCSC and funding (SUS105,410) has been approved from the APEC TILF fund for a training course on calibration of rice moisture meters to be held in Thailand in 2002.

14) That APLMF support the OIML revision of the recommendation on taximeters.

15) That the report on non automatic weighing instruments, which had been finalised and circulated to members be sent for publication in the OIML Bulletin.

Action taken.

16) The report on load cells be finalised and circulated to members.

Discussed under Working Group on Intercomparison.

17) The intercomparison testing of mass standards and master meters commence as soon as possible.

Discussed under Working Group on Intercomparison.

18) Request the OIML to finalise the revision of Document on the Law of Metrology.

The OIML is working on the document and discussions are continuing at ILAC and the BIPM.

19) Consider ways to involve consumers in Forum activities.

A speaker from the Ministry of Consumer Affairs, New Zealand, Lesley Harwood has been invited to present a paper on consumer involvement in legal metrology.

20) Support the work of TC 3/SC 5 in developing the Mutual Acceptance Arrangements (MAA) on Test Reports.

Discussed under the Working Group on Mutual Recognition Arrangements.

21) Survey action being taken by member economies to ensure compliance of production instruments with type.

Survey on compliance of production instruments with type among APLMF members has been completed by the secretariat.

22) Survey member on the establishment of a Working Group on Application of weighing bulk commodity shipping to replace draft survey.
The survey has been conducted but the only few responses from member economies have been received.

Dr Judith Bennett (Australia) informed the Forum that the Commission had commissioned a study on bulk commodity trade measurement practices for internal and external trade and will share the findings with the APLMF when the study is completed.

23) Develop a project on economic analysis of legal metrology with the aim of setting priorities based on economic and social impacts.

24) Circulate information to member economies on Measurement Canada’s Market Place Intervention Model (available on the internet).

Completed.

25) Provide reports to members on WTO review of TBT agreements.

26) Attend OIML and CIML meetings and provide reports on Forum meetings to the OIML bulletin.

Both Mr John Birch and Dr Akira Ooiwa represented the APLMF at the OIML and CIML meetings in Moscow in October 2001.

27) Provide reports to APEC SCSC and attend at least one meeting a year.

The secretariat provided reports on activities of the APLMF to all the APEC SCSC meetings.

28) Exchange information with other specialist regional bodies and attend the annual meetings where appropriate.

Complied with where appropriate.

29) Exchange information with other regional legal metrology organizations (RLMOs) and attend coordinating meetings with RLMOs.

Complied with where appropriate. The OIML Development Concil (Devco) had requested the APLMF to nominate a representative to its Council.

30) Pursue opportunities for obtaining funding for the development of legal metrology in the region.

31) Strengthen the policy focus of the Forum meetings.

32) Support the organization of the 8th Forum meeting.
9. Discussion on topic nominated by host economy – “Consumer involvement in legal metrology” by Lesley Harwood, Advisor on consumer representation, Ministry of Consumer Affairs, New Zealand. (Paper to be presented on Thursday 15 November 2001 from 10.00 – 11.00 am).

9.1 Ms Harwood spoke on a study she had conducted for the Ministry of Consumer Affairs on involving representatives of consumer organisations on government advisory committees. She emphasised the expertise and experience of these representatives arising from their community involvement and their capacity to network and report back to the community on evolving issues. However travel costs and lost wages were a significant impediment to their involvement. There was also need for induction training. Ms Harwood’s presentation stimulated significant discussion from delegates.

10. Country Report presentation by member economies: “Update on current developments in the legal metrology system”.

10.1 The Forum noted the presentations of delegates from each economy on the developments of legal metrology over the past year. The following delegates made presentations:

Australia          Dr Judith Bennett
Cambodia           Mr Hou Leng
Canada             Mr Alan Johnston
PR China           Mr Zhang Yiqun
Hong Kong China    Mr Cheung Yan-Hong
Indonesia          Mr Hari Prawoko
Japan              Mr Yasuhsia Odani
Republic of Korea  Mr Kou-sul Yeum
Laos PDR           Mr Sisomphet
Malaysia           Mr Chen Soo Fatt
New Zealand        Mr Tony Leverton and Ms Mary Waller
Papua New Guinea   Mr Kialou Angat
Russia             Prof Dr Lev Issaev
Singapore          Mr S Koban
Chinese Taipei     Dr Chen Jay-San
Thailand           Mr Veerasak Visutthatham
USA                Mr Louis Straub
Vietnam            Mr Bui Quy Long

10.2 The Forum thanked the delegates for their presentations. Arising from the country reports, the Forum noted the following developments:

10.2.1 PR China – Mr Zhang reported developments in telephone metering and the C Mark. The Forum requested that information on this new
development be provided to the secretariat who will circulate it to members.

10.2.2 Japan – Mr Odani was requested to circulate information on opportunities for training to members.

10.2.3 Lao PDR – Mr Sisomphet stated that legal metrology is very new in his economy and requested assistance in the drafting of legislation and future work program.

10.2.4 New Zealand – Ms Mary Waller informed members on the introduction of the Average Quantity System for pre-packed goods which came into force on 14 November 2001.

10.2.5 USA – Mr Straub reported on concerns in NCWM on E-commerce trade measurement transactions, particularly cross state border jurisdictional problems.

10.2.6 Cambodia – Mr Hou Leng reported on metrological law development, the need for metrology laboratories and verification centers and he requested for technical assistance for the development of legal metrology in Cambodia.

10.2.7 Indonesia – Mr Hari Prawoko reported on the decentralisation of legal metrology in Indonesia. Mr Birch commented that such decentralised structures have been found to be a significant impediment to developing technical capability and participating in the global measurement system. Indonesia also reported on a survey they had conducted on the use of draft survey for measurement of bulk commodities.

10.2.8 Russia – Prof. Dr. Issaev reported on developments in the Russian legal metrology system. Delegates were particularly interested in Conference on "Young Metrologists for the National Economy of Russia", recent changes in the measurement law and the introduction of metrological control of gaming machines.

11. Development of programs in other areas of legal metrology.

11.1 The Forum decided that arising from the Indonesian country report to maintain the proposal for a Working Group on Measurement of Bulk Commodity Exports in place of draft surveys.

12. Discussion on APEC Standards and Conformance issues and report of meeting between Specialist Regional Bodies (SRBs) (APLAC, APLMF, APMP, PAC, PASC) and APEC Standards and Conformance Sub-Committee and (b) Presentation of reports by SRBs.
12.1 The Forum thanked Dr Llewellyn Richards for the presentation of the report on the activities of APLAC whose principal objectives are to foster the development of competent laboratories and inspection bodies in member economies, harmonise accreditation practices and facilitate recognition of laboratories and test data and inspection reports. He highlighted on the APLAC Multilateral MRA, the APLAC Rules of Procedure, APLAC projects and programs.

12.2 The Forum noted the report of Mr Han Jianping (PR China) who represented the APLMF at the recent APLAC 2001 General Assembly on 26 October 2001 in Beijing.

12.3 Dr Akira Ooiwa (Japan) presented the APMP report to members and Keith Jones (New Zealand) also provided information on the APMP and its activities. The Forum noted the report of the APMP.

12.4 Mr John Birch informed the meeting that three meetings of the APEC SCSC were held this year. However, due to insufficient funding the APLMF was not represented at any of the APEC SCSC meetings this year. The venue and chair for the APEC meetings in 2002 will be Mexico.

13. Discussion on OIML issues

Mr Magana provided a report on the OIML. The Forum noted:

13.1 The progress on the following documents/work:

13.1.1 Document No 1 Law on Metrology which was discussed by the joint Working Group with the Metre Convention and ILAC in February and that the draft has been circulated to TC 3.

13.1.2 D 9 on Conformity Assessment Methods.

13.1.3 Statistical Methods.

13.1.4 D 11 on Electrical devices.

13.1.5 Taximeters and electricity meters.

13.1.6 Test Report Format on Gas analysers.

13.1.7 Software development.

13.1.8 Revision of the Certificate System, Mutual Acceptance Arrangements, Pre packed goods and the IQ Mark.

13.2 Work of the Development Council – Mr Magana informed the Forum that the Devco worked in close cooperation with the BIML and RLMOs (Regional
Legal Metrology Organisations) and that three Working Groups had been established in Devco namely that on Training, Equipment and information.

13.3  Work of the OIML in relation to the WTO/TBT, the World Bank and UNIDO. He informed the Forum that a seminar has been planned with the World Bank to be held next year.

13.4  Liaison with other international and regional organisations namely the ISO, CEN, CENELEC and RLMOs.

13.5  Communication, internet, e-mail. Mr Magana informed the Forum that publications of the OIML will be made available on the internet in February or March 2002 and drafts for discussion will also be available on-line. The recommendations are available for sale on-line but free to members and correspondence members.

13.6  CIML meeting and workshop. He informed the meeting that the 2002 CIML meeting has been scheduled on 30 September – 4 October in South France and the 2003 meeting in Japan.

14.  Discussion on liaison with other regional legal metrology organisations.

The Forum noted the report on the activities of the following regional organizations:

14.1  COOMET presented by Prof Dr Lev Isseav.

14.2  SACDMEL (Southern African Development Community Cooperation in Legal Metrology).

15.  Discussion on bilateral and multilateral assistance for development of legal metrology in the region.

15.1  Dr Seiler (PTB, Germany) informed the Forum on the ongoing support provided by PTB for metrological infrastructure in developing countries.

16.  Discussion on APLMF finance – including (a) subscriptions, (b) expenditure and (c) fees for 2002

16.1  This agenda item was discussed in association with agenda No. 6 on Update on implementation of the Memorandum of Understanding for memebrs of the Asia-Pacific Legal Metrology Forum.

16.2  Mrs Loon Khoo reported on the membership status for the years 2000 and 2001. Two documents were referred to for discussion. The document dated 1 November 2001 on “List of signatories and payment” indicates that a total of sixteen member economies paid membership fees in 2000 and eighteen member economies in 2001.
16.3 The "Operating Statement for the period ended 31 October and projection to 31/12/2001" showed that both the grant revenue provided by the Australian government to the APLMF secretariat and that the APLMF membership fees collected was utilised in the operation of the APLMF secretariat in terms of employee expenses, travelling and Forum meeting expenses and administration expenses.

16.4 The statement indicates an estimated shortfall of AUD$5911 which reflects that there will be no funds to be transferred to the next secretariat.

16.5 Mrs Loon Khoo brought to the attention of Forum members that as the financial year of the Commission is from 1/7/2000 to 30/6/2001 and that APLMF fees are paid according to calendar year, some confusion would inevitably arise in the financial statement.

16.6 The Forum accepted the statement on fees and recommended the following to be taken into account in the preparation of the financial statement in future.

- To make it simple.
- Standardise the payment eg. in US $.
- To invoice the member economy before 31 March 2002.

16.7 Membership fees for 2002
There was a discussion on whether the APLMF would continue the practice of membership fees. The Forum agreed that membership fees continue to be paid by members and that the fee structure for 2002 be similar to that of 2001.


17.1 The members agreed to the following work programs for 2002/03. The work programs of the working groups are listed first followed by other proposals.

APLMF WORK PROGRAM 2002/2003

1. Working Group on Goods Packed by Measure

- Follow up the recent survey of APLMF economies seeking to establish within each economy who is the contact for goods packed by measure.
- Prepare and publish a register of officials who are the contact in each economy for goods packed by measure.
- When required by the President, prepare any required submission of comments on the redraft of R 87 or the proposed IQ Mark to TC 6.
- Keep the Secretariat informed of all correspondence with the working group.
- Maintain relationships with other regional legal metrology organisations such as WELMEC WG 6.
• Prepare a report for the ninth APLMF meeting on issues relating to goods packed by measure including regulating prescribed sizes and unit pricing.

2. **Working Group on Training**
   • The train-the-trainer courses for the verification of non-automatic weighing instruments be presented in Hanoi for five days starting on Monday April 8, 2002.
   • Consolidation of training courses based on existing packages either as Train-the-Trainer courses or as one-day courses.
   • The Train-the-Trainer Module, based on OIML R 117 for the Verification of Fuel Dispensers be completed and distributed.
   • Training in utility meters be investigated.

3. **Working Group on Utility meters**
   • That Canada prepare a survey intended to identify and prioritize the specific needs of APLMF members with regard to utility meters and distribute the finalized survey to all APLMF members.
   • That Australia prepare an information sheet on electricity meter standards and the concerns at the IEC’s unacceptably high allowable accuracies.

4. **Working Group on Rice moisture measurement**
   • That the working group on rice moisture measurements undertake the compilation of reports by the participants and publish the finalised report by March 2002.
   • That the working group implement the 2nd stage of the project funded by APEC TILF, which involves training in certification and calibration of several types of rice moisture meters and the establishment of a suitable inspection system for APEC economies.

5. **Working Group on Intercomparison calibration and testing**
   • That the APLMF consider conducting another intercomparison testing on non automatic weighing instruments provided that there was sufficient interest in participation from members.
   • That Australia commence the intercomparison testing of mass standards.
   • That participating members in the intercomparison testing on load cells submit their reports to the Coordinator of the project, Australia, by December 2001, who will then finalise the report and circulate to members.
• That the report on intercomparison calibration and testing on non-automatic weighing instruments be published in the OIML Bulletin.

6. Working Group on Mutual Recognition Arrangements

• The meeting noted that the proposed MAA was based on the issuing of test reports by Issuing Authorities that participate in the OIML Certificate System (with the acknowledgement of their participating CIML member) and that consideration be given to involvement of other members of the MAA.

• The APLMF continue to support the OIML work and not develop a regional MAA.

7. Other projects

1. Develop a project on economic analysis of legal metrology with the aim of setting priorities based on economic and social impacts.
2. Support the work of TC 3/SC 5 in developing the Mutual Acceptance Arrangements (MAA) on Test Reports.
3. Complete the survey of members on the establishment of a Working Group on Application of weighing bulk commodity shipping to replace draft survey.
4. Prepare a calendar of activities in member economies and circulate this information to members on the activities of the region.
5. The APLMF to prepare the 3rd edition of the Directory of Legal Metrology in the Asia-Pacific Region.
6. Japan to circulate any information on opportunities for training in legal metrology to members.
7. China to provide information on the C mark system to members.
8. The APLMF attend OIML and CIML meetings and provide reports on Forum meetings to the OIML bulletin.
9. Provide reports to APEC SCSC and attend at least one meeting a year.
10. Exchange information with other specialist regional bodies and attend the annual meetings where appropriate.
11. Exchange information with other regional legal metrology organizations (RLMOs) and attend coordinating meetings with RLMOs.
12. Pursue opportunities for obtaining funding for the development of legal metrology in the region particularly with the ADB.
13. Consideration be given to organising a conference on ‘The Future of Legal Metrology’
14. Consideration be given to organising training courses in support of international trade on:
- High capacity weighing;
- High capacity flow measurements;
- Goods packed by measure;
- Measurement uncertainty in legal metrology.

15. Consideration be given to organising a seminar/workshop for training providers in legal metrology throughout the region.

16. APLMF support the development by OIML of:
- Recommendation on Statistical Sampling;
- Taximeters, and
- The revision of D1 on Law of Metrology.

17. Maintain contact with the WTO on TBT issues.

18. Upgrade and update the APLMF web pages

19. Membership of the APLMF – To continue to encourage the participation of DPR Korea in APLMF activities and to invite a representative from East Timor to participate in the next Forum meeting as observer.

20. Working Group on Medical Measurements – The Chair of this Working Group to progress the work on sphygmomanometers.

21. Strengthen the policy focus of the Forum meetings.

22. Support the organization of the 9th Forum meeting.


18.1 The Chairman introduced Dr Akira OOIWA, Director, Mechanical Metrology Division, National Metrology Institute of Japan to the members of the Forum and welcomed him to the position of APLMF President. Mr John Birch also welcomed Dr Ooiwa and his team who will commence the secretariat functions from 1 January 2002.

18.2 The Forum endorsed the members of the Executive Committee from the following economies namely Canada, Japan (APLMF president and secretariat), New Zealand (host economy 2001), Vietnam (host economy in 2002), and Mr John Birch (past President of APLMF).

19. Address by the President-elect, Dr Akira OOIWA.

19.1 Dr Ooiwa thanked the Chair, Mr John Birch and members of the Forum and looked forward to the position as President of the APLMF next year.

20. Date and location of next Forum meeting in 2002.

20.1 Mr Long (Vietnam) invited Forum members to Ho Chi Minh city, Vietnam next year for the 9th APLMF meeting to be held in association with the 18th APMP General Assembly and the ASEAN Working Group on Legal Metrology in November 2002.
20.2 Dr Ooiwa also extended an invitation to Forum members to the 10th APLMF which will be held in association with the CIML meeting in Kyoto in 2003.

21. Concluding remarks by the Chairman of the Forum meeting.

21.1 The Chairman expressed his appreciation to Mr Birch and delegates for their contribution to the Forum proceedings and thanked the organising committee for their assistance in the organisation and smooth functioning of the Forum meeting.

22. Any other matters.

22.1 Mr Birch thanked Forum members for their contribution and support during the past seven meetings and paid tribute to the collective efforts of members.

22.2 Mrs Khoo expressed appreciation to members of the Forum and organising committees of all those economies where Forum meetings have been held namely, Beijing, Vancouver, Tsukuba, Seoul, Bali, Taipei and Auckland, for their cooperation and support which ensured the smooth functioning of the Forum meetings. She paid tribute to Mr Birch for his leadership, dedication and guidance in the work of the Forum and Dr Bennett and the Commission for supporting the Forum until the transfer of the presidency and secretariat. She welcomed the Japanese team to the work of the APLMF presidency and secretariat and would provide any assistance to ensure a smooth transition.

23. Conclusion of eighth Forum meeting.

23.1 Mr Birch expressed his appreciation to the Chair for conducting the proceedings of the meeting and the 8th Forum meeting concluded with a vote of thanks to the Chair, the organising committee from Trade Measurement, Ministry of Consumer Affairs New Zealand and all delegates for their participation and contribution.

23.2 Dr Ooiwa announced that members had unanimously agreed to appoint Mr John Birch AM as a Honorary Member of APLMF, in recognition of his outstanding service as President from 1994 to 2001 in the formation and development of APLMF.
OPENING SPEECH TO THE ASIA PACIFIC LEGAL METROLOGY FORUM

Prepared for Hon Jim Anderton, Deputy Prime Minister

Mister Chair, President Of A P L M F, Director Of B I M L, Delegates And Observers

Haeremai, Welcome.

I understand at yesterday's Working Party meeting you experienced a traditional Maori welcome that hopefully proved a unique and uplifting experience.

I am pleased to welcome you all to Auckland. I am told delegates have travelled from as far afield as Moscow and Washington to be here at this, the eighth A P L M F meeting. I AM PLEASED THAT WITH ALL THE WORRIES ABOUT INTERNATIONAL TRAVEL, WE HAVE A VERY FULL ATTENDANCE.

I am also especially pleased to welcome the Pacific Island Economies and I should put on record my thanks to officials from the Ministries Of Consumer Affairs and Foreign Affairs And Trade for the work that enabled you to attend these important meetings in Auckland this week.

This year I took on the responsibility as Acting Minister of Consumer Affairs and this has brought me into direct contact with the world of legal metrology, with all its practical common-sense, and some of its mystique. I have quickly understood that your business is
about providing some of the standards by which civilised society wishes to use to an provide a fair environment for trade, business justice and the social well-being of our citizens.

New Zealand annually exports about $NZ32 billion worth of products – and imports about the same amount.

Your work relating to international trade seeks to provides confidence in the measurements made when goods are traded between economies. It helps ensure that the kilogram equates to the International Standard and that the rules by which trade is conducted are fair to all parties to that transaction.

This Legal Metrology covers a wide range of products and I was interested to learn, for example, that there has been a problem issues relating to rice moisture measurements. Not a problem that New Zealand experiences, but obviously one that has an immediate impact on many in the region. Getting consistent, acceptable measurements in this area will provide benefits to farmers, traders and consumers and considerably reduce the likelihood for disputes. I understand that you are making good progress on this issue. It shows to me that the benefits of an organisation, such as the A P L M F, can be very meaningful to a wide cross section in our society and across the region.

New Zealand is an economy that wishes to trade fairly and supply our goods widely. As Minister of Economic Development I have been keen to see that all areas of New Zealand maximise their potential to supply goods and services to meet both domestic and international needs. I recognise that to do this New Zealand needs a strong infrastructure to support
The New Zealand Government recognises that it has a part to play by ensuring that the legal metrology infrastructure is current and meets the required needs.

I can see the value that the A P L M F brings to the region to assist all of you to supply goods by fair weight and measure. The harmonisation and removal of technical or administrative barriers to trade in the field of legal metrology, which is the goal that A P L M F has set itself, is one that the New Zealand Government supports. This we hope see as will ensuring a strong common infrastructure frameworks while at the same time not without imposing excessive costs on business and consumers. Indeed, a good well-founded measurement system achieves both these aims.

I also recognise that A P L M F achieves this by working closely with the International Organisation of Legal Metrology and their in support of its aim to harmonise national metrology regulations.

I am keen to maximise innovative any advantage opportunities for New Zealand manufacturers, whether those designing and making petrol pumps and scales or those selling the wide range of fine products we have to offer. I have asked my officials to consider an upgrade of New Zealand's membership of the O I M L to the status of full member, and to report to me on this.

The agenda for this meeting covers a wide range of important issues.
I notice you will be discussing mutual recognition arrangements. I believe at this meeting, officials from New Zealand and Australia will be signing a mutual recognition arrangement recognising type-approval test reports on non-automatic weighing instruments. This will ease access by Australian and New Zealand weighing instrument manufacturers to each economy. I commend the officials on both sides of the Tasman that have worked on this and ask you all to consider developing the confidence in each others measurement systems to enhance the advantages to business and consumers that flow from such mutual recognition arrangements.

A P L M F has developed a well-deserved international reputation for training legal metrology officials. Training in a specialist area such as this is always difficult to develop particularly in a widespread area such as the Asia Pacific region. I support your aim to advance the knowledge in metrology and the work you have done on the testing of non-automatic weighing instruments, high capacity weighing instruments and flowmetering systems. Increasing the experience and learning of legal metrology officials again adds greatly to the desired increase in confidence in each others systems.

The work you are doing on intercomparisons with type approval of weighing instruments, mass standards, master meters and load cells is also key to building confidence and removing those inconsistencies that restrict economic development and add costs to business and consumers.

Similarly we must have confidence in the goods we trade by weight, measure or number. The systems we use must be understood by all and be fair to all. I am particularly pleased to say that New Zealand has adopted the Average Quantity System as provided in the O I M L
Recommendation. In fact it comes in to law this very day. I hope that you will continue the work towards a harmonised system that promotes fair trade.

You will also be discussing measuring practices by Utilities, (water, gas and electricity). This is one area where we in New Zealand have less formalised systems than in some economies. The provisions on metering accuracy and requirements are not included in our Weights and Measures Legislation, although there are some provisions in other legislation. One initiative currently under way is the work my Ministry is carrying out with the water industry on developing a water metering code of practice. There is still much to be done in regards to metering by utility services.

But your work is more than ensuring fairness in trade. It covers legal measurements in the areas of health, safety and the environment.

All these measurements have a major impact on the way our citizens conduct their lives. A visit to the doctor or hospital can often involve some form of measurement, whether a simple test for blood pressure or temperature, or perhaps more complex measurements.

The certification of speed cameras, blood alcohol devices and weighbridges for checking overloading of trucks contributes to our safety on the roads and the costs of providing and maintaining a roading network.

Measuring pollutants contributes to a clean environment and these will undoubtably become more vital over the next few years, particularly as we trade emission levels under the Kyoto
Protocol. The work that A P L M F and O I M L is doing in these areas is going to be vital in providing for the social well-being of all the citizens in the Asia Pacific area.

Inter-Government Organisations such as the A P L M F make important recommendations and ask governments to implement them. Many of these recommendations are proposed by technical people, some who have worked in their particular discipline as a career. However, I have to say that you do not have a monopoly on advancing improvements to measurement practices. It is important that when you develop recommendations that they reflect the views of all those in society that will be affected by them.

I am pleased that the Host Topic is ‘Consumer Involvement In Legal Metrology’. All the issues I have noted from your agenda impact on consumers. Therefore it is vital to involve consumer representation in your deliberations. I hope that our topic will provide food for thought.

The work you do is not readily appreciated in everyday life but it plays a key role in society. I commend you for it. I give you both my and the Government's best wishes for a productive meeting and hope you will be able to stay on a few days and enjoy the many delights that New Zealand has to offer.

I declare the Eighth A P L M F meeting open.
Address by Keith Manch, General Manager, Ministry of Consumer Affairs, and Chair of the 8th APLMF meeting on 14 November 2001

Deputy Prime Minister, Mr John Birch, President of the APLMF, members and guests - welcome to this 8th meeting of the APLMF.

It is truly a pleasure to be here with you today and to have the honour of chairing this important meeting.

I have been the General Manager of the Ministry of Consumer Affairs for 6 years now and over that period of time have become increasingly aware of two things that are central to this meeting and the issues that will be addressed.

The first issue is the critical importance to all of our economies of an effective trade measurement system.

As an example I would like to quote some excerpts from a document prepared for the Ministry about the value of metrology to an economy. It says:

"Measurement is so fundamental to a modern economy it is difficult to quantify its contribution… It is estimated in Australia that total trade measurement transactions, that is commercial transactions which required an explicit measuring, amounted to $A320b.¹ … good standard measures underpin much of modern human endeavour. Where they do not exist (usually because they cannot) the transactions of economic and social life may be more cumbersome. A universal standard measure can simplify those transactions adding to the efficiency of economic activities and the quality of human life."²

The other critical issue is of course globalisation. This phenomenon has been around for centuries although more recent technological changes mean that the pace of globalisation is increasing in a way that makes fora such as the APLMF more relevant every day.

Globalisation presents many challenges. The development of the APLMF has been a significant and worthy response to the challenges posed in making sure that consumers in our region and world wide can have confidence that they will “get what they pay for”.

The APLMF’s focus on the sharing of knowledge, skills and techniques that underpin an effective international system of weight and measure is of very high value. The process of harmonisation of our approaches to underpin consumer confidence in this challenging global environment is another key feature of the work of the APLMF and one that I am delighted to be taking part in over the next few days.

Best wishes to you all for the success of this meeting, I look forward to your contributions and I hope you enjoy your time here in Auckland.

¹ Committee of Inquiry into Australia's Standards and Conformance Infrastructure (1995).
# ASIA-PACIFIC LEGAL METROLOGY FORUM

## 8th ASIA-PACIFIC LEGAL METROLOGY FORUM MEETING

LIST OF DELEGATES & OBSERVERS

AUCKLAND, NEW ZEALAND
13 – 15 NOVEMBER 2001

**CHAIRMAN:** Mr Keith Manch  
General Manager, Ministry of Consumer Affairs.

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### LIST OF DElegates

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<td>Mr John BIRCH AM</td>
<td>-President APLMF, &amp; Adviser, National Standards Commission</td>
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<td>Dr Judith BENNETT</td>
<td>-Executive Director, National Standards Commission</td>
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<td>Dr Grahame HARVEY</td>
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<td>Mrs Marian HAIRE</td>
<td>-Training Coordinator, National Standards Commission</td>
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<td>Mrs Loon KHOO</td>
<td>-APLMF Secretariat, National Standards Commission</td>
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<td>Canada</td>
<td>Mr Alan E JOHNSTON</td>
<td>-President, Measurement Canada, Industry Canada</td>
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<td>Mr Gilles VINET</td>
<td>-Vice-President, Program Development Measurement Canada, Industry Canada</td>
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<td>P R China</td>
<td>Mr XUAN Xiang</td>
<td>-Director General, Department of Metrology China State General Administration of Quality Supervision &amp; Inspection &amp; Quarantine (AQSIQ)</td>
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<td>Mr HAN Jianping</td>
<td>-Director, Department of International Cooperation AQSIQ</td>
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<td>Mr ZHANG Yiqun</td>
<td>-Engineer, Department of Metrology, AQSIQ</td>
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<td>Mr CHEUNG Yan-Hong</td>
<td>-Deputy Head of Consumer Protection &amp; Prosecution Bureau, Customs &amp; Excise Department</td>
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<td>Mr LEE Foo Wing</td>
<td>-Senior Chemist, Government Laboratory</td>
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<td>Indonesia</td>
<td>Mr Gunaryo</td>
<td>- Director, Directorate Metrology</td>
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<td>Mr Hari Prawoko</td>
<td>- Head of Standard of Mass, Electric and Pressure Section, Directorate Metrology</td>
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<td>Japan</td>
<td>Dr Akira OOIWA</td>
<td>- NMIJ/AIST</td>
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<td>Republic of Korea</td>
<td>Sang Woo LEE</td>
<td>- Assistant Director of Metrology Division, Korean Agency for Technology &amp; Standards, KATS</td>
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<td>Mr Kou-sul YEUM</td>
<td>- Team Manager, Korea Machinery-Meter and Petrochemical Testing Research Institute</td>
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<td>Ms Jeong-hee CHOI</td>
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<td>Mr Md Nor Md Chik</td>
<td>- General Manager, National Metrology Centre, SIRIM Berhad</td>
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<td>Mr CHEN Soo Fatt</td>
<td>- Manager of Mechanical Metrology, National Metrology Centre, SIRIM Bhd</td>
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<td>Mr Mohd Ismail bin Md Yunus</td>
<td>- Deputy Director, Enforcement Division, Ministry of Domestic Trade &amp; Consumer Affairs</td>
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<td>New Zealand</td>
<td>Mr Keith MANCH</td>
<td>- General Manager, Ministry of Consumer Affairs</td>
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<td>- Manager, Trade Measurement</td>
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<td>Mr Tony LEVERTON</td>
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<td>Ms Mary WALLER</td>
<td>- Senior Advisor, Trade Measurement</td>
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<td>Papua New Guinea</td>
<td>Mr Kialou ANGAT</td>
<td>Director General, National Institute of Standards &amp; Industrial Technology (NISIT)</td>
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<td>Russia</td>
<td>Prof Dr A ASTASHENKOV</td>
<td>- Director, The Russian Research Institute for Metrological Service, VNIIMS</td>
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<td>Prof Dr Lev ISSAEV</td>
<td>- The Russian Research Institute for Metrological Service, VNIIMS</td>
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<td>Singapore</td>
<td>Mr S KOBAN</td>
<td>- Singapore Productivity and Standards Board</td>
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<td>Mr Michael ONG</td>
<td>- Deputy Director, Singapore Productivity and Standards Board</td>
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<td>Chinese Taipei</td>
<td>Dr CHEN Jay-San</td>
<td>- Bureau of Standards, Metrology &amp; Inspection, BSMI, MOEA</td>
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<td>Dr WU Gwo-Jen</td>
<td>- Bureau of Standards, Metrology &amp; Inspection, BSMI, MOEA</td>
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<td>Thailand</td>
<td>Miss Wisitsee CHINTANA</td>
<td>- Deputy Director General, Dept of Commercial Registration, DCR</td>
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<td>Mr Veerasak VISUTTHATHAM</td>
<td>- Director, Bureau of Weights &amp; Measures</td>
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<tr>
<td>United States of America</td>
<td>Dr Charles EHRLICH</td>
<td>- Chief, Technical Standards Activities Program, NIST</td>
</tr>
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<td>Mr Louis STRAUB</td>
<td>- Chief of Weights &amp; Measures, State of Maryland; Chairman National Type Evaluation Program</td>
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</table>
Vietnam
Dr. Huynh Van QUANG
Mr. Bui Quy LONG
(NTEP); Immediate past Chairman, National Conference of Weights & Measures (NCWM)
- Deputy Director, Assurance Quality Centre for the Region 3, STAMEQ
- Project Manager, Planning and Cooperation Department, STAMEQ

LIST OF OBSERVERS

<table>
<thead>
<tr>
<th>Economy</th>
<th>Observer</th>
<th>Organisation</th>
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<tr>
<td>Brunei Darussalam</td>
<td>Mr Michael S. F. NG</td>
<td>- Head of Construction, Planning &amp; Research Unit, Ministry of Development</td>
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<td></td>
<td>Hj Abidin Hj Saidin</td>
<td>- Special Duties Officer, Construction Planning and Research Unit, Ministry of Development</td>
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<tr>
<td>Cambodia</td>
<td>Mr Hou Leng</td>
<td>Deputy Director of Metrology Department</td>
</tr>
<tr>
<td>Laos PDR</td>
<td>Mr Sisomphet Nhooybouakong</td>
<td>Department of Intellectual Property, Standardization and Metrology, The Science, Technology and Environment Organisation, Prime Minister’s Office</td>
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<tr>
<td>New Zealand</td>
<td>Mr Ron ARNOLD</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr John CARTER</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Terry COLLINS</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Ms Agatha CORDEIRO</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Julian CRANE</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Bob JONES</td>
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<td>Mr Malcolm MILBURN</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Barrie MORGAN</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Owen ROBERTS</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Brian WALTHAM</td>
<td>- Trading Standards Officer, Trade Measurement</td>
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<td>Mr Paul STANNARD</td>
<td>- Technical Advisor, Energy Safety Service</td>
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<td>Keith JONES</td>
<td>- Chief Metrologist, Measurement Standards Laboratory</td>
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<td>Steve EDMONDS</td>
<td>- Precision Transducers</td>
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<td>Geoff MAURICE</td>
<td>- Engineering Manager, Atrax Group NZ Ltd</td>
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<td></td>
<td>Karl GAILER</td>
<td>- Managing Director, EMC Industrial Group Ltd</td>
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<td>Wayne BRADDOCK</td>
<td>- Managing Director, Sensortronic Group of Companies</td>
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<td>Jim NEILL</td>
<td>- Weighing Machine Association</td>
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INTERNATIONAL AND REGIONAL ORGANISATIONS

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<tr>
<th>Organisation</th>
<th>Name</th>
<th>Address</th>
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</table>
| BIML Director/ CIML | Mr J F MAGANA     | Bureau International De Metrologie Legale (BIML)
<p>|                    |                   | 11, Rue Turgot – F-75009, Paris, France     |</p>
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<tr>
<th>Economy</th>
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<tr>
<td>Cook Islands</td>
<td>Mr David GREIG</td>
<td>Director for Labour &amp; Consumer Service</td>
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<td>Fiji</td>
<td>Mr Satish Lal</td>
<td>Ministry of Commerce, Business Development &amp; Investment</td>
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<tr>
<td>Kiribati</td>
<td>Mr Takabea Barantarawa</td>
<td>Ministry of Commerce, Industry and Tourism</td>
</tr>
<tr>
<td>Western Samoa</td>
<td>Ms Iulia PETELO</td>
<td>Assistant Secretary, Department of Trade, Commerce &amp; Industry</td>
</tr>
<tr>
<td>Solomon Islands</td>
<td>Mr Oliver Bikimoro JINO</td>
<td>Principal Consumer Officer, Ministry of Commerce &amp; Primary Industries</td>
</tr>
<tr>
<td>Tonga</td>
<td>Mr Sione Vuna FA'OTUSIA</td>
<td>Legal Officer and Acting Director of Consumer Affairs, Ministry of Labour, Commerce &amp; Industries,</td>
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</table>

**Apologies**

- Philippines – Mr Rodrigo B Dacuyan, Head, Metrology Laboratory, Std & Testing Industrial Technology Development Institute
- Specialist Regional Bodies – Dr Hidetaka Imai, Chairman APMP, National Metrology Institute of Japan (NMIJ)
ASIA–PACIFIC
LEGAL METROLOGY FORUM

REPORT BY MR. JOHN BIRCH AM
APLMF PRESIDENT

TO DELEGATES TO THE
8TH ASIA PACIFIC LEGAL METROLOGY FORUM MEETING

The past twelve months have been very productive both in terms of program delivery and organisational development. Major program achievements have included:

- Presentation in Beijing in May 2001 of a Train-the-Trainer course on Verification of Petroleum and LPG Fuel Dispensers. This course was presented by the National Standards Commission (Australia) and the China State General Administration of Quality Supervision & Inspection & Quarantine (AQSIQ).

- The National Standards Commission has also obtained funding to present in Hanoi in May 2002 the Train-the-Trainer course on Verification of Non-Automatic Weighing Instruments based on OIML R76.

- APLMF Study Tour to Japan on metrological control of rice moisture measurements was held in October 2001. The Tour was organised by Mr Akamatsu, Co-ordinator of the APLMF Rice Moisture Measurement Working Group and was attended by nine participants from seven member countries. This Study Tour was funded by the APEC TILF fund, which has also agreed to fund Stage 2 of this project.

In addition there have been a number of significant organisational developments, these have included:

- The 7th Forum adopted a fee structure aimed at making APLMF largely financially self-reliant. This has been introduced successfully this year, although consideration needs to be given to what are appropriate fees for least developed economy members and more effective ways of involving APEC member economies from South and Central America. With Mexico hosting APEC in 2002 next year may be an opportune time to address this latter issue.

- The Presidency and Secretariat function will be transferred from Australia to Japan from 1 January 2002.
Vietnam has offered to host the 9th Forum meeting in 2002 and Japan the 10th Forum meeting in 2003. It is proposed that this latter meeting will be held in Kyoto in association with the CIML meeting.

The establishment of sub-regional legal metrology forums in ASEAN and the SW Pacific will further strengthen the recognition of legal metrology in the region.

Accordingly we can be satisfied that, six years after its establishment, the APLMF is well established with strong programs, a sound structure, an active and committed membership and high recognition both regionally and internationally.

However as I mentioned in my Report last year much still needs to be done and this arises from the challenges facing legal metrology which include:

- The expanding scope of legal metrology arising from the increasing use by government of physical measurements for the control of the road traffic, the environment, occupational health and safety and medical procedures. Chemical measurements are a major component of these control systems.

- Development of new technologies, particularly the interfacing of measuring devices with computers and the challenges this poses to validate and ensure the integrity of software.

- The need to move from industry sector based measurement systems to a coherent national measurement system.

- Changing role of government under the influence of competition policy leading to the privatisation of many government services.

- Developing the institutions and structures that will provide the same trust and confidence in a global measurement system that is presently provided by national metrology legislation and enforcement systems.

Whilst this is a formidable list of challenges they should seen as opportunities for legal metrology to provide confidence and add value to a wide range of transactions which support efficient markets and government regulation.

These challenges were addressed in the conference co-sponsored by OIML in 1998 on "Role of Metrology in Economic and Social Development" held at the PTB in Germany and will be further addressed in the OIML Conference to be held in France next year on "What Will Legal Metrology be in the Year 2020"

APLMF addressed some of these issues in it's 1997 Workshop on "Modernisation of Legal Metrology Legislative and Administrative Systems" and consideration should be given to
organising a regional conference on these challenges to legal metrology and engaging APEC and bilateral and multilateral funding agencies such as JICA and ADB in the debate.

As this will be my final Forum meeting as President I would like to express my appreciation of the support I have received over the past seven years from all of the Forum members. Our success has been a collective one and further highlights trust and confidence as the underlying philosophy of legal metrology.

Finally I would like to pay tribute to the dedication and commitment of the Forum Secretary Mrs Loon Khoo. She has now prepared the documentation for eight Forum meetings which has ensured the efficiency and effectiveness of our meetings and her detailed reports have provided a reliable foundation for the continuity of our discussions. She has been the silent achiever of this Forum.

John Birch AM
7 November 2001
REPORT OF THE APLMF
WORKING GROUP ON MUTUAL RECOGNITION ARRANGEMENTS
HELD ON 13 NOVEMBER 2001 IN AUCKLAND

The Working Group on Mutual Recognition Arrangements met in Auckland on 13 November 2001 and was chaired by Dr Charles Ehrlich (USA) and delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, People’s Republic of China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Russia, Singapore, Chinese Taipei, Thailand, United States of America and Vietnam.

The meeting thanked Dr Ehrlich for his presentation of the report on Mutual Acceptance Arrangement (MAA), highlighting the use of test data and the role of the Issuing Authority to accept test data. He provided information on the Declaration of Mutual Confidence (DoMC) and the process for establishing a DoMC and the use of ISO/IEC Guide 17025 and 65. The meeting was informed on the key modifications to the 7th draft which included among other things, the substitution of self assessment or declaration with peer assessment.

The meeting noted that the proposed MAA was based on the issuing of test reports by Issuing Authorities that participate in the OIML Certificate System (with the acknowledgement of their participating CIML member). The Forum requested that consideration be given to involvement of other members of the MAA.

The APLMF agreed to continue to support the OIML work and not develop a regional MAA.

Dr Judith Bennett informed members on the bilateral arrangements on Mutual Acceptance of test reports for non automatic weighing instruments, load cells and fuel dispensers, signed recently between the National Standards Commission with the UK and the Netherlands and the NSC with the MCA, New Zealand, on mutual acceptance of test reports on non automatic weighing instruments.

The Working Group proposed the following resolutions to be presented to the Forum meeting:

**Resolutions**

- The Forum requested that consideration be given to the involvement of other members of the OIML in the MAA other than those who participate in the OIML Certificate System.

- The APLMF agreed to continue to support the OIML development of the MAA and not develop a regional MAA.
REPORT OF THE APLMF
WORKING GROUP ON TRAINING
HELD ON 13 NOVEMBER 2001 IN AUCKLAND

The Working Group on Training met in Auckland on 13 November 2001 and was chaired by Mrs Marian Haire (Australia) and delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, People’s Republic of China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Russia, Singapore, Chinese Taipei, Thailand, United States of America and Vietnam.

A report on training activities during 2001 was presented and suggestions for the training program 2002 were discussed:

The working group proposed the following recommendations to be presented to the Forum meeting:

- Recommendation 1
  The train-the-trainer courses for the verification of non-automatic weighing instruments be presented in Hanoi for five days starting on Monday April 8, 2002;

- Recommendation 2
  Consolidation of training courses based on existing packages either as Train-the-Trainer courses or as one-day courses;

- Recommendation 3
  The Train-the-Trainer Module, based on OIML R 117 for the Verification of Fuel Dispensers be completed and distributed; and

- Recommendation 4
  Training in utility meters be investigated.
REPORT OF THE APLMF
WORKING GROUP ON GOODS PACKED BY MEASURE
HELD ON 13 NOVEMBER 2001 IN AUCKLAND

The Working Group on Goods Packed by Measure met in Auckland on 13 November 2001 and was chaired by Mr John Barker (New Zealand) and delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, People’s Republic of China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Russia, Singapore, Chinese Taipei, Thailand, United States of America and Vietnam.

Mr Barker reported on the working group activities including the work program for 2000/01, the submission of comments to OIML TC 6 and the survey on participation in the work of the working group.

The results of the survey of economies has resulted in six responses being received.

The meeting discussed the redraft of OIML R 87 and issues relating to standard package sizes and unit pricing.

The Working Group agreed and recommended the following work program for adoption by the Forum members:

- Recommendation 1
  Follow up the recent survey of APLMF economies seeking to establish within each economy who is the contact for goods packed by measure;

- Recommendation 2
  Prepare and publish a register of officials who are the contact in each economy for goods packed by measure;

- Recommendation 3
  When required by the President, prepare any required submission of comments on the redraft of R 87 or the proposed IQ Mark to TC 6;

- Recommendation 4
  Keep the Secretariat informed of all correspondence with the working group;

- Recommendation 5
  Maintain relationships with other regional legal metrology organisations such as WELMEC WG 6; and

- Recommendation 6
  Prepare a report for the ninth APLMF meeting on issues relating to goods packed by measure including regulating prescribed sizes and unit pricing.
REPORT OF THE APLMF
WORKING GROUP ON RICE MOISTURE MEASUREMENTS
HELD ON 13 NOVEMBER 2001 IN AUCKLAND

The Working Group on Rice Moisture Measurements met in Auckland on 13 November 2001 and was chaired by Mr Issei Akamatsu (Japan) and delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, People’s Republic of China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Russia, Singapore, Chinese Taipei, Thailand, United States of America and Vietnam.

Mr Akamatsu reported on the study tour on the metrological control of rice moisture measurement conducted by nine participants from seven economies namely PR China, Indonesia, Republic of Korea, Malaysia, Philippines, Thailand and Vietnam. He also outlined the continuation of the project for 2002. Funding for the study tour was provided by the APEC TILF account.

The meeting noted:

- The timeline of the working group activities from October 2000 to March 2002;

- That the compilation of reports by the participants will occur from December 2001 – January 2002 and that the publication of the report of the study tour will be in March 2002;

- That the working group was successful in obtaining funding from the APEC TILF account for the continuation of the project which involves training in certification and calibration of several types of rice moisture meters and the establishment of a suitable inspection system for APEC economies. The project will be implemented by AIST, Japan, Japanese Ministry of Agriculture, Forestry and Fisheries with Thailand as host economy.
REPORT OF THE APLMF
WORKING GROUP ON INTERCOMPARISON CALIBRATION AND TESTING
HELD ON 13 NOVEMBER 2001 IN AUCKLAND

The Working Group on Intercomparison Calibration and Testing met in Auckland on 13 November 2001 and was chaired by Mr John Birch AM (Australia) and delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, People’s Republic of China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Russia, Singapore, Chinese Taipei, Thailand, United States of America and Vietnam.

Mrs Loon Khoo presented the reports of the intercomparison calibration and testing of non-automatic weighing instruments, mass standards, load cells and master meters.

The meeting noted:

• That the report on intercomparison and testing on non automatic weighing instruments had been finalised and circulated to members at the last meeting and that a copy had been sent for publication in the OIML Bulletin.

• The request from New Zealand to conduct another intercomparison testing on non automatic weighing instruments and that members give consideration to commencing the testing should there be sufficient interest in participation from members.

• That the intercomparison of mass standards will commence soon by the National Standards Commission.

• That the report on the intercomparison of load cells could not be finalised as not all reports were received and urged those members who have not sent in their reports to the Coordinator of the intercomparison (Australia) to do so by the end of December 2001.

• That participating members in the intercomparison testing of master meters were not ready to undertake the intercomparison and that the funding for the project had been returned to the Australian government.
REPORT OF THE APLMF
WORKING GROUP ON UTILITY METERS
HELD ON 13 NOVEMBER 2001 IN AUCKLAND

The Working Group on Utility Meters met in Auckland on 13 November 2001 and was chaired by Mr Gilles Vinet (Canada) and delegates from the following economies attended:

Australia, Brunei Darussalam, Cambodia, Canada, People’s Republic of China, Hong Kong China, Indonesia, Japan, Republic of Korea, Laos PDR, Malaysia, New Zealand, Russia, Singapore, Chinese Taipei, Thailand, United States of America and Vietnam.

Mr. Gilles Vinet from Canada presented to the APLMF members a summary of the regulation applicable to utility meters in each of the APLMF countries. He outlined the fact that the 1996 survey does not cover the new APLMF members and does not provide details on several important areas of legal metrology. He outlined the potential that such information could provide to identify APLMF needs with regard to utility meters. He then provided an outline of the OIML work related to utility meters.

The Forum considered the results of a survey recently conducted within APLMF regarding electricity meters. This survey outlined the current requirements in APLMF countries. The Forum considered the requirements of the IEC standard and the IEC philosophy, which is different from the traditional legal metrology and OIML philosophy with regard to the applicable tolerances for influence factors. Since it appears that the IEC is unlikely to change its philosophy, it is important that APLMF and OIML members be informed of these very significant differences so that legal metrology regulators select the proper accuracy classes in order to obtain the desired level of accuracy. It was agreed that Australia will prepare an information sheet on electricity meter standards that would express the Forum’s concerns at the IEC’s unacceptably high allowable MPEs. The working group requests Forum members to communicate these concerns to their national IEC members. Reference was made to the need to ensure the desirability of cost-benefit for consumers in the practical application of MPEs.

The Working Group endorsed the following resolutions to be presented to Forum meeting:

**Resolutions**

- It was agreed that Canada will prepare a survey intended to identify and prioritize the specific needs of APLMF members with regard to utility meters. The survey will also identify for each member state, the level of regulation for specific metrological areas. This survey will allow the Utility Meter Working Group to identify work priorities and provide APLMF members with information that could enable them to seek specific legal metrology program information from other members. Canada will send the draft survey to Australia, Japan, New Zealand, and Russia for review and input. The finalized survey will then be distributed to all APLMF members for completion.
• The Forum expresses its concern that the IEC Class 2 Standards for electricity meters can result in unacceptably high field errors when influence factors are taken into account. The Forum believes that lower MPEs are more appropriate for the needs of consumers and industry.

The Working Group also proposed this recommendation to the Forum:

**Recommendation**

• It was agreed that Australia prepares an information sheet on electricity meter standards that would express the Forum’s concerns at the IEC’s unacceptably high allowable MPEs. The working group requests Forum members to communicate these concerns to their national IEC members. Reference was made to the need to ensure the desirability of cost-benefit for consumers in the practical application of lower MPEs.
ASIA–PACIFIC
LEGAL METROLOGY FORUM

AGENDA

WORKING GROUPS MEETING

13 November 2001

Hyatt Regency Hotel
Auckland, New Zealand

REGISTRATION OF DELEGATES

12 November 2001 (Monday) 14:00 – 17:00
13 November 2001 (Tuesday) 08:00 – 08:50

Chairman: Mr John Birch AM President, APLMF.

Introduction and Welcome
Mr John Birch AM, President, APLMF.

Session 1: Working Group on Mutual Recognition Arrangements
Chair: Dr Charles Ehrlich

1. OIML Mutual Recognition Agreement
2. Development of APLMF Mutual Recognition Agreements for test reports.

Session 2: Working Group on Training
Chair: Ms Marian Haire, Training Coordinator

1. Report on training course on verification of fuel dispensers and LPG dispensers.
2. Training course on verification and reverification of weighing instruments.
Session 3:  Working Group on Goods Packed by Measure  
Chair:  Mr John Barker,  Trade Measurement, New Zealand  
1. Report on working group activities for 2000/01.  
2. Discussion on mutual recognition of nett content labelling.  
3. Report on WELMEC WG 6 on “e” marked products  

Session 4:  Working Group on Rice Moisture Measurement  
Chair:  Mr AKAMATSU Issei  
i. Report on study tour on rice moisture measurement  
2. Report on project for 2002 "Training on Calibration of Rice Moisture Meters"  

Session 5:  Working Group on Intercomparison Calibration and Testing  
Chair:  Mr John Birch  AM  
1. Report on non-automatic weighing instruments intercomparison  
2. Report on Load cell intercomparison  
3. Report on master meter intercomparison  
4. Report on mass intercomparison  

Session 6:  Working Group on Utility Meters  
Chair:  Mr Gilles Vinet  
1. Update on the development of the OIML IR on electricity meters.  
2. Requirements for electricity meters in Australia – brief presentation of current situation.  
3. APLMF requirements for OIML recommendation.
E te iwi

Tena Koutou, Tena Koutou, Tena Koutou

Thank you Ngati Whatua for such a fine and enthusiastic welcome.

We, the Asia-Pacific Legal Metrology Forum have journeyed from Pacific Rim economies to meet here in Auckland to discuss many important issues relating to measurement, trade and its legal application. Your welcome is very appropriate as we recognise that local Maori were prolific and expert traders and developed their own concepts of measurement.

We hope in our meetings to develop many ideas that enhance the trading of goods by measure and the services, in health, the environment and law enforcement that enable the peoples of the Pacific Rim to live in a society with social well being as a core value.

Nga mihi kia koutou.

Kia ora