



Report from Asia-Pacific Legal Metrology Forum (APLMF) for OIML RLMO RT (Regional Legal Metrology Organizations Round Table) 26 September 2023

**Dr. Tsuyoshi Matsumoto (APLMF Training Coordinator)
on behalf of Dr. Osman Zakaria (APLMF President)**



1. Introduction

- ✓ APLMF is a group of legal metrology authorities on the **Pacific Rim** with **23 member economies** (21 full+2 correspondence).
- ✓ Aims to reduce TBT (technical barriers to trade), exchange information, provide training programs, and cooperate with other organizations (OIML, RLMOs, etc.).
- ✓ Established in **1994 in Australia**. The presidency and secretariat were then transferred to Japan (2002), PR China (2007), New Zealand (2015), and Malaysia (2021).
- ✓ In 2020-2022, Forum Meetings were held online.
- ✓ In Nov. 2023, the 30th Forum Meeting will be **held physically** in the Philippines.

Structure of APLMF

Forum Meeting (every year)

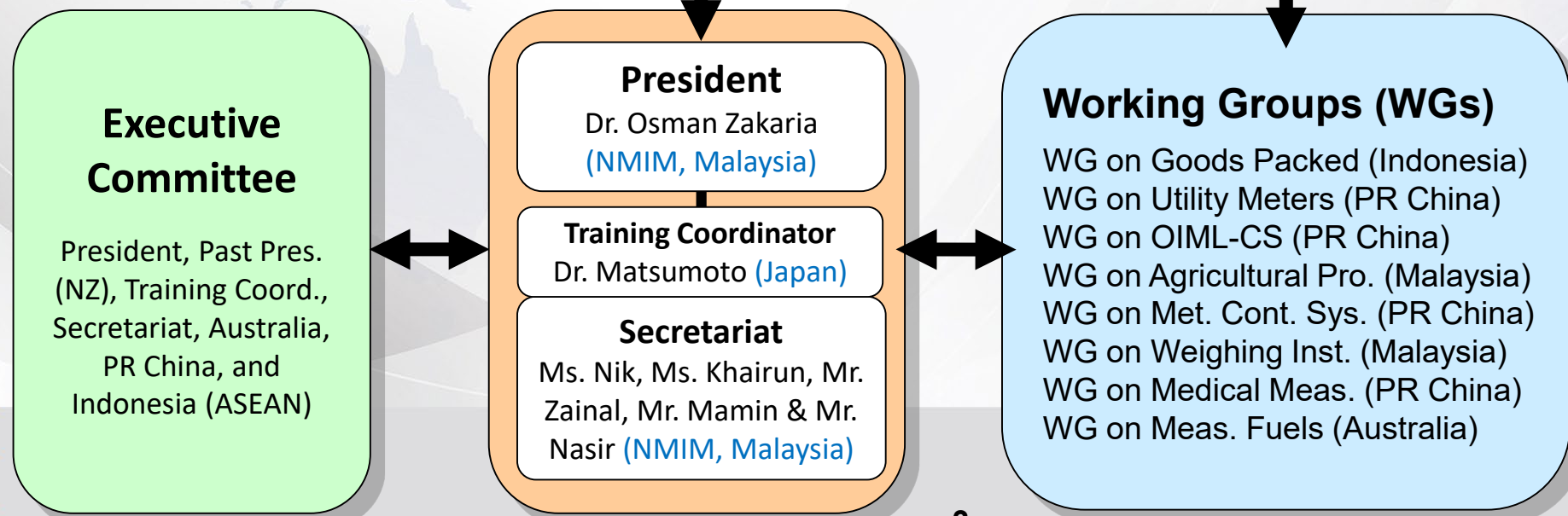
50-80 participants attend from:

Full Members (21):

Australia, Brunei, Cambodia, Canada, PR China, Hong Kong China, Indonesia, Japan, Kiribati, Rep. Korea, Malaysia, Mongolia, New Zealand, Papua New Guinea, Peru, Philippines, Singapore, Chinese Taipei, Thailand, USA, and Viet Nam

Corresponding Members (2):

Lao PDR and Russia





2. Forum Meetings in 2023



The 30th APLMF Meetings are scheduled from 8th to 10th November 2023 in Bohol Island hosted by ITDI, Philippines

Draft agenda:

- ✓ Reports from BIML, OIML-CS, and DTG of OIML (online)
- ✓ Report from PTB regarding the MEDEA project
- ✓ Reports from APMP (online) and ASEAN/WG3
- ✓ Reports from the President, Training Coordinator and Secretariat
- ✓ Reports from the eight WGs.
- ✓ Introduction of the legal metrology system in the Philippines
- ✓ Special topics from Canada, PR China, Indonesia, and Kiribati
- ✓ Topic regarding the article of OIML Bulletin on prepackages from Indonesia
- ✓ Topic regarding OIML G 22 on EVSE from PR China
- ✓ Topic regarding digitalization in type approval from Malaysia
- ✓ Poster sessions for reports from the participating economies
- ✓ Full member session on financial issues, strategy, WG's structure, and next meeting

3. APLMF Working Groups (WGs)

1. WG on Goods Packed by Measure (WG-GPM / Dr. Ardianto, Indonesia)

WG has conducted many training courses on prepackages (PPGs) and plans another course in 2023. WG develops e-Learning module. WG supports OIML TC 6 and promotes awareness programs on PPGs.



2. WG on Utility Meters (WG-UM / Mr. Wang, PR China)

WG has conducted many training courses on utility meters and plans a training course on EVSE (Electric Vehicle Supply Equipment) in 2023. WG develops an e-Learning module on electricity metering. WG also plans a training program on water meters.

3. WG on OIML Certificate Systems (WG-CS / Ms. Zheng, PR China)

WG liaises with OIML-CS by participating in its MC meetings. WG has provided an animated video for the CS and is developing additional videos. WG also plans a seminar on the CS in 2024 to promote the CS for the stakeholders.



3. APLMF Working Groups (WGs)

4. WG on Metrological Control Systems (WG-MCS / Mr. Guo, PR China)

WG is responsible for metrology systems in the region and liaises with CEEMS AG, RLMO RT and DTG of OIML. WG provides a scholarship to invite trainees. A SWG on Digitalization in Metrology has recently been set up.



5. WG on Quality Measurement of Agricultural Products (WG-QMAP / Ms. Haslina, Malaysia)

WG covers measurements of agricultural products and has delivered training courses. WG has provided a guide document on rice moisture measurement and is developing an e-Learning module.



6. WG on Weighing Instruments (WG-WI / Ms. Suliana, Malaysia)

WG covers NAWIs, AWIs, and multi-dimensional measuring instruments. WG provided an e-Learning module on NAWIs. WG plans training courses and develops e-Learning modules on AWIs (R 51, R 61, R 134, etc.).

3. APLMF Working Groups (WGs)

7. WG on Measurement of Fuels (WG-MF / Dr. Harrington, Australia)

WG covers all kinds of fuels and has delivered many training courses. WG has developed an e-Learning module for fuel dispensers. WG plans additional training courses for petroleum/LPG dispensers and bulk flow meters.

8. WG on Medical Measurements (WG-MM / Dr. Ding, PR China)

WG was taken chair by Chinese Taipei, and it has been re-established in 2022. WG plans a joint webinar with APMP in 2023. WG plans training courses for clinical thermometers and sphygmomanometers. WG liaises with OIML TC 18 and APMP in this field.

9. Sub-Working Group on Digitalization in Metrology (SWG-DM)

This is a new SWG under the WG-MCS, and the chairperson and members are being sought. This SWG is expected to liaise with OIML DTG and cover the software used for legal metrology.

4. Training Activities

Overview:

- ✓ This is a **core activity** to strengthen the social infrastructures in legal metrology.
- ✓ It was started in 1997 and over 1,500 trainees participated in 75 events.
- ✓ It is planned based on the surveys among the members. Trainers and materials are provided by a WG and the experts in member economies.
- ✓ In 2014, APLMF, as well as APMP, participated in the MEDEA project of PTB (Germany) to continue training.

Current situation:

- ✓ After the pandemic, training is shifting to an online scheme. Practical components are also provided online. This movement will continue after the pandemic.
- ✓ To respond to DX in metrology, a new SWG-DM has been set up. Software for measuring instruments is an important issue in legal metrology.
- ✓ There is a difficulty in maintaining skilled experts/trainers and it will be a big challenge to continue training.



APLMF training courses in 2019-2023

Topics	Date (d/m/y)	Place	Organizers and trainers
Training Course on Water Meters – OIML R 49	15-18/10/2019	Malaysia	Malaysia (NMIM)
Training Course on Calibration and Testing of Non-Invasive Sphygmomanometers	11-15/11/2019	Malaysia	Germany (PTB), Malaysia and Chinese Taipei
Training Course on electricity meters and EVSE (Electric Vehicle Supply Equipment)	18-21/1/2021	(Online)	PR China and Rep. Korea
Training Course on Bulk Flow-metering Systems	22-25/2/2021	(Online)	Australia and Malaysia
Foundation Course on Pre-packaged Goods	4 days/3/2021	(Online)	Indonesia and New Zealand
APEC Workshop on Requirements for Software-Controlled Measuring Instruments*	10-12/5/2022	(Online)	Malaysia, Australia, Canada, PR China, Germany, Indonesia, Japan and USA
ASEAN-PTB Training Course on LPG Dispensers*	16-18/8/2022	(Online)	Thailand, Australia and PTB
Webinar on Metrology for Health (a joint event with APMP)	16/11/2023	(Online)	PR China, R. Korea, Brazil and Japan
Training Course on EVSE	11 or 12/2023	(Online)	PR China
Training Course on Pre-packaged Goods	5-7/12/2023	(Online)	Indonesia, Singapore and Japan

** Conducted by other organizations in cooperation with APLMF.*

E-Learning materials/modules under development

Year of delivery	Main topic	Responsible WG
2021	Fuel dispensers (based on OIML R 117) on NMIA's website (utilized)	WG-MF
2021	NAWI (OIML R 76) on PTB's website (utilized)	WG-WI
2023	AQS for pre-packages (OIML R 87)	WG-GPM
2023	OIML-CS (animated videos)	WG-CS
2023	Rice moisture meters (OIML R 59 and APLMF Guide 6)	WG-QMAP
2024	Electricity meters and EVSE (OIML R 46 and G 22)	WG-UM
2024	Bulk-fuel metering system (OIML R 117)	WG-MF
2024	NAWI for spring scales and weighbridges (OIML R 76)	WG-WI
2024-25	LPG dispensers (OIML R 117)	WG-MF
2024-25	CNG dispensers (OIML R 139)	WG-MF
2024-25	Automatic catch-weighing instruments (OIML R 51)	WG-WI
2024-25	Automatic gravimetric filling Instruments (OIML R 61)	WG-WI
2024-25	Instruments for weigh in motion (OIML R 134)	WG-WI
2024-25	Multi-dimensional measuring instruments (OIML R 129)	WG-WI
2025-26	Belt weighers (OIML R 50)	WG-WI

5. MEDEA Project (PTB)



- ✓ The MEDEA (Metrology Enabling Developing Economies in Asia) project of PTB targets the **developing economies in South-West Asia**.
- ✓ Since 2014, this project has **significantly contributed** to our training activities. In 2021, the third-phase project (**MEDEA 3**) started, and it continues for 3 years.
- ✓ MEDEA 3 focuses on the **Sustainable Development Goals**, particularly SDGs No. 3 (health), 6 (water), 8 (economy) and 9 (industry).
- ✓ **Rapid Diagnostic Toolkit** of World Bank is used for monitoring the economies.
- ✓ **Policy Briefs** are being developed for pre-packages and water quantity.
- ✓ Online training is provided to develop **e-Learning modules**.
- ✓ A Joint APMP-APLMF **metrology web portal** has been developed to share information among the NMIs, LMAs and stakeholders in metrology (<https://metrologyasiapacific.com/>)
- ✓ **CC** (Coordination Committee) is organized by the PTB's secretary (see photo).

6. Liaisons and Future Perspectives

Liaisons:

- ✓ **OIML** including RLMO RT, CEEMS AG and DTG: Some members take important roles in OIML. Australia and New Zealand proposed a **pilot market surveillance** for Conformity to Type (CTT) to support OIML TC 3/SC 6.
- ✓ **APEC** (Asia-Pacific Economic Co-operation): Cooperation with the SRB (Specialist Regional Bodies) Forum.
- ✓ **APMP** (Asia Pacific Metrology Programme): Cooperation through MEDEA.
- ✓ **ASEAN** (Association of South-East Asian Nations): Cooperation with the WG3 on legal metrology.

Future Perspectives:

- ✓ **Online scheme** will continue after the pandemic. This is a chance for a **change in paradigm** as people can meet online at any time.
- ✓ **APLMF Strategic Plan** is updated. The latest five-year strategy (2021-2025) is provided here: <https://www.aplmf.org/strategic-plan.html>.

Thank you for your attention

Tsuyoshi Matsumoto (Yoshi)
Training@aplmf.org