

● APMP. Asia Pacific Metrology Programme

# APMP Report

The 17<sup>th</sup> AFRIMETS General Assembly 2024  
- Sustainability Workshop -

**Dr. Hyun-Min Park**

APMP Chairperson

31 July 2024



## Asia Pacific Metrology Programme

is an **association of National Metrology Institutes (NMIs)** from **the Asia-Pacific region** for improving regional metrology capability

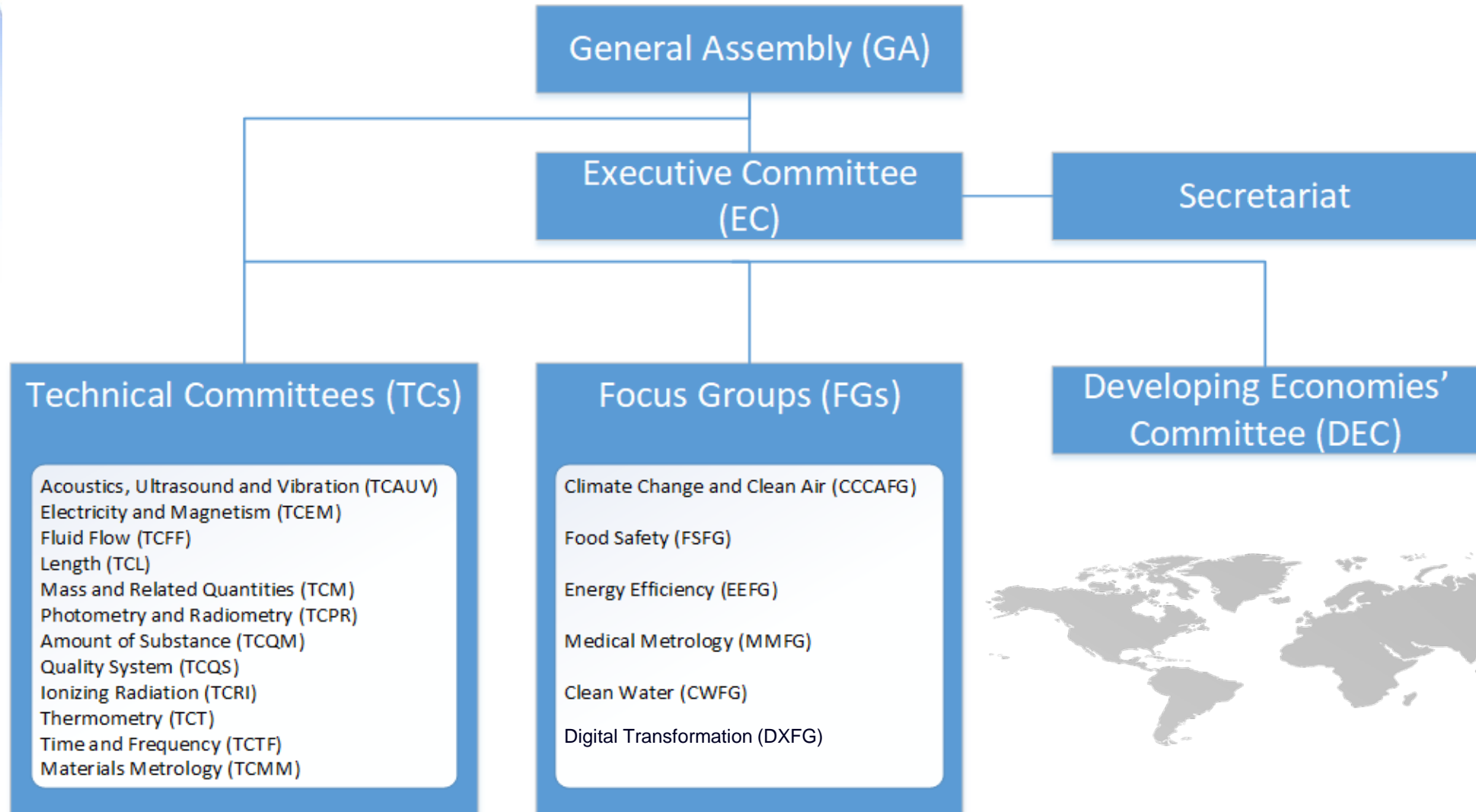
### Current members

- **47 Full Member Institutes** (28 economies) from the Asia Pacific Region
- **12 Associate Member Institutes** (12 economies) from other regions
  - **Africa (South Africa(NMISA), Egypt(NIS), Kenya(KEBS))**
  - America (U.S.)
  - Europe (U.K.)
  - Central Asia (Kazakhstan, Uzbekistan)
  - Middle East (Saudi Arabia, UAE, other economies)



Regional Metrology Organizations (RMOs)

# Organizational Structure

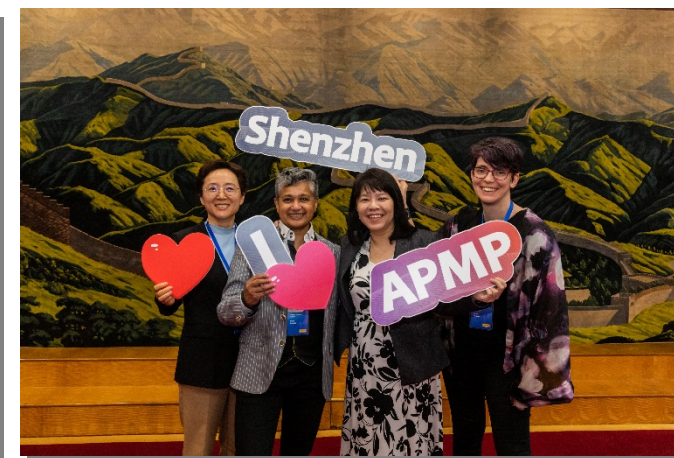




## APMP 2023 General Assembly

- The 39<sup>th</sup> APMP GA and related activities were held with resounding success in **Shenzhen, China** from 27 November to 3 December 2023. The event was sponsored /organized by the National Institute of Metrology (NIM), China.

- General Assembly,
- Executive Committee meeting,
- APMP NMI Directors' Workshop,
- Symposium "Grand Vision for 2030+: Advancing Metrology in Addressing Global Challenges",
- Meetings /Workshops of 12 Technical Committees (TCs),
- 6 Focus Groups (FGs),
- Developing Economies' Committee (DEC),
- APMP-APAC Proficiency Testing Working Group (PTWG)





## 2024 APMP Mid-year Meetings

2024 APMP Mid-year meetings took place from June 24 to 28, 2024 (5 days) in Bohol, Philippines.

The event was sponsored and organized by the National Metrology Laboratory (NML), ITDI of DOST, Philippines.

June 24 (Mon)		June 25 (Tue)	June 26 (Wed)		June 27 (Thu)
FG Chairs Meeting	TC Chairs Meeting	DEC Stakeholder Engagement Workshop		DEC Leadership & Management (L&M) Workshop	International Symposium
EC Meeting	TC & FG Chairs Meeting	DEC Meeting	EC-CC Meeting		



# APMP Strategic Plan for 2024–2026

## Strategic Objectives

Leveraging lessons learned from the COVID-19 pandemic to promote post-pandemic recovery

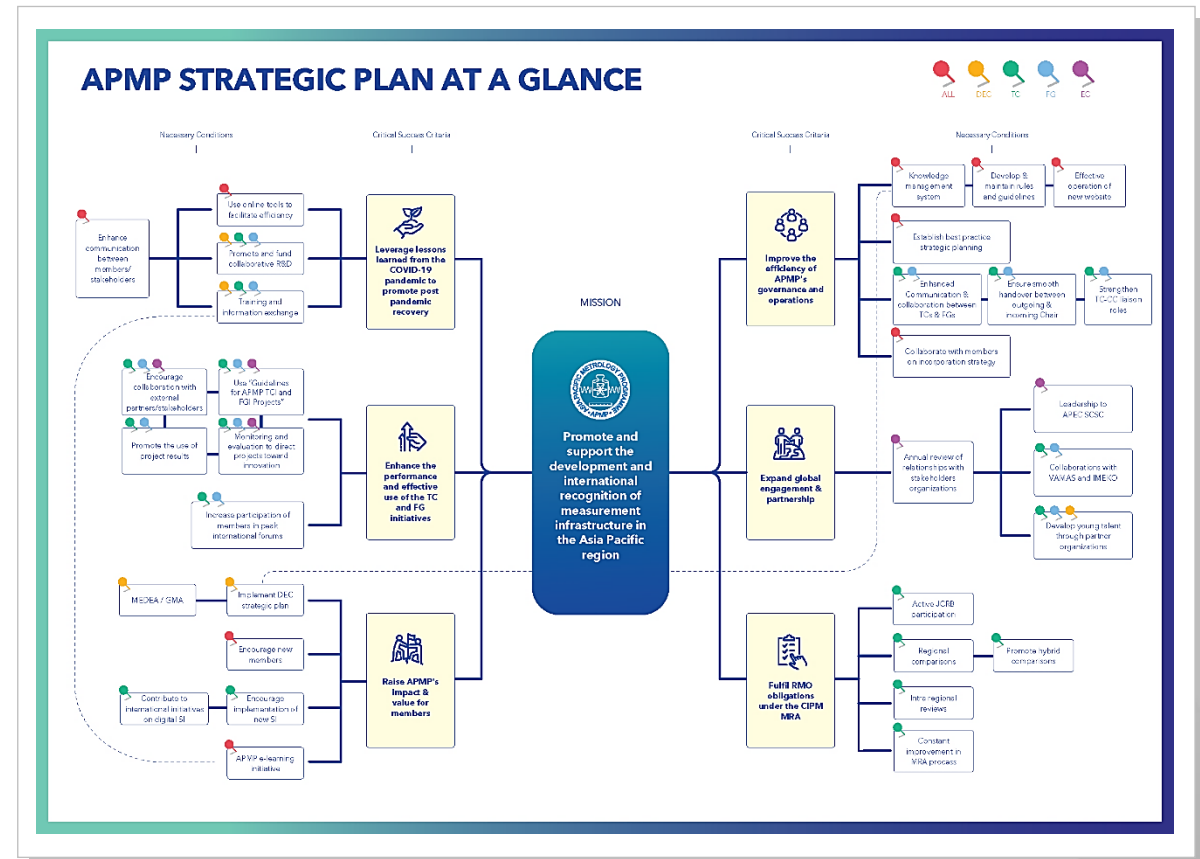
Enhancing the performance and implementation of TC and FG Initiatives

Raising APMP's impact and value for members

Improving the efficiency of APMP's governance and operations

Expanding global engagement and partnership

Fulfilling RMO Obligations under the CIPM MRA



## Executive Committee Members

Chairperson



**Hyun-Min Park**

KRIS, Korea

2022 GA-2025 GA



**Wei-En Fu**

CMS/ITRI, Chinese Taipei

2020 GA-2024 GA



**Takehiro Morioka**

NMIJ, Japan

2020 GA-2024 GA



**Angela Samuel**

NMIA, Australia

2022 GA-2025 GA



**Venu Gopal Achanta**

NPLI, India

2022 GA-2025 GA



**Wei Gao**

NIM, China

2023 GA-2026 GA



**Gregory Goh**

NMC A\*STAR, Singapore

2023 GA-2026 GA





New EC members






# Committee Chairs

## Technical Committees (1+12)

New **Lead TC Chair**, **3 TC Chairs (TCFF, TCM, TCTF)** and **3 FG Chairs (CCCAFG, MMFG, CWFG)** started their first terms at the 39<sup>th</sup> APMP GA in 2023.

 <b>Lead TC Chair</b> Chunhui Li	<b>TCAUV</b> Yong Tae Kim	<b>TCEM</b> Yusong Meng	 <b>TCFF</b> Woong Kang	<b>TCL</b> Zi Xue	 <b>TCM</b> Koji Ogushi	<b>TCMM</b> Fang-Hsin Lin
	<b>TCPR</b> Annette Koo	<b>TCQM</b> Byungjoo Kim	<b>TCQS</b> Rugkanawan Wongpithayadisai	<b>TCRI</b> Chien Hau Chu	<b>TCT</b> Hisashi Abe	 <b>TCTF</b> Kazumoto Hosaka

## Focus Groups (6)

 <b>CCCAFG</b> Hong Lin	<b>FSFG</b> Hongmei Li	<b>EEFG</b> Ilya Budovsky	 <b>MMFG</b> Il Doh	 <b>CWFG</b> Richard Shin	<b>DXFG</b> Blair Hall
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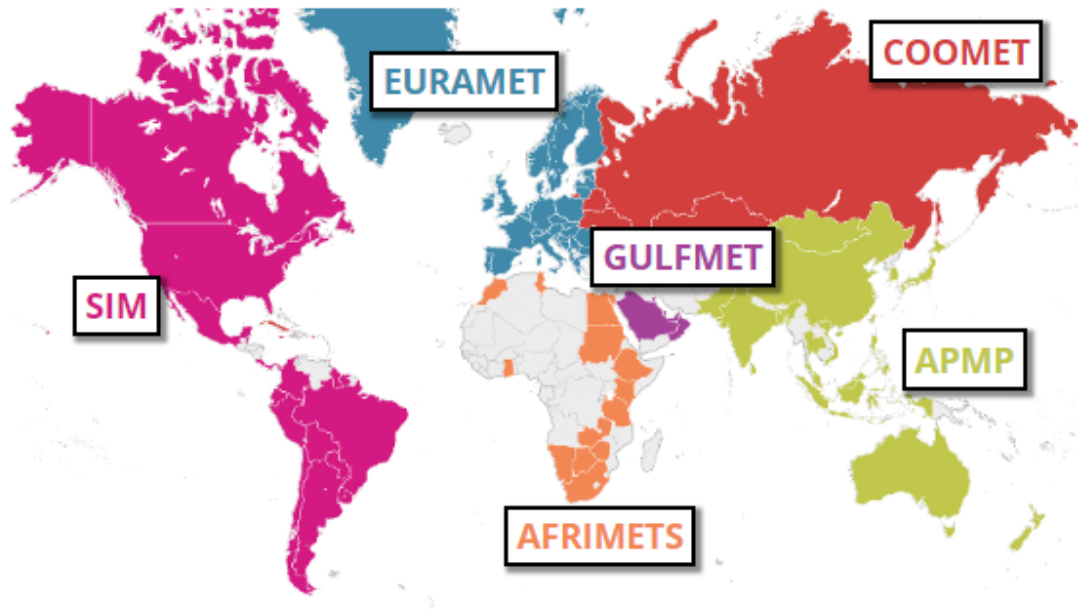
## Others

<b>Developing Economies Committee</b> SD I Dias	<b>APMP-APAC PT Working Group</b> Teo Tang Lin
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## Technical Committee

APMP participates in the operation of the **CIPM MRA**, a framework through which NMI demonstrate the international equivalence of their measurement standards, the calibration and measurement certificates they issue.



## APMP participation in the CIPM MRA

**41 / 251**  
(16%)

CIPM MRA participants

**6,631 / 25,903**  
(26%)

CMCs published from APMP

**152 / 1,175**  
(13%)

Key comparisons

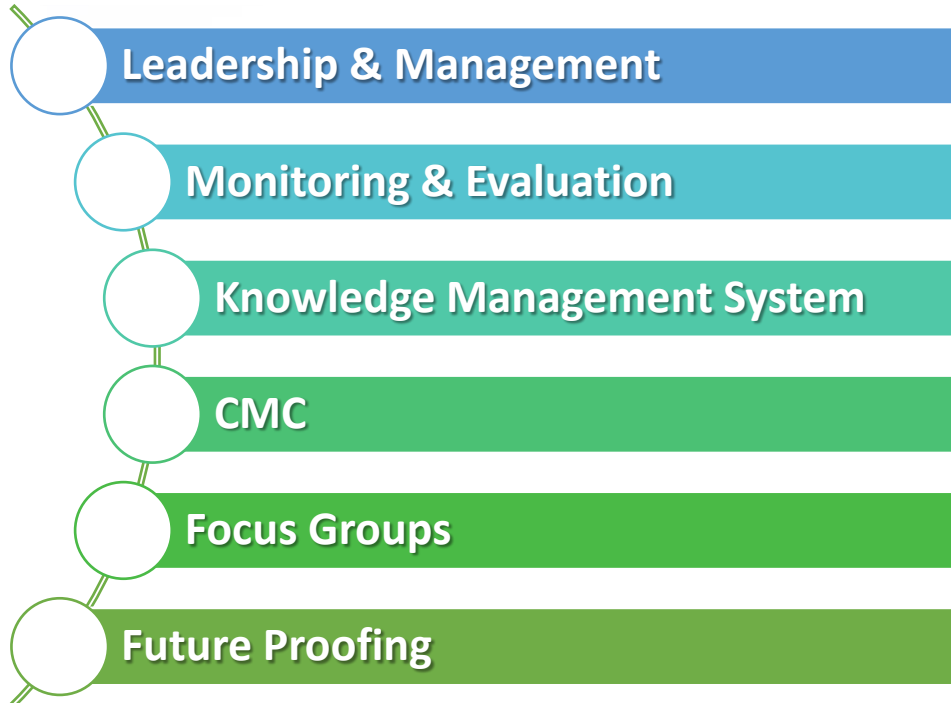
**126 / 691**  
(18%)

Supplementary comparisons

## Developing Economies Committee

The APMP Developing Economies' Committee (DEC) is being responsible for initiating and coordinating work programs **to address the needs of APMP member Developing Economy NMs (DENs)**, working together with other APMP bodies/Committees as appropriate

### DEC Task Force Groups



#### DEC Chair

**Mr S D I Dias**, MUSSD, Sri Lanka



#### DEC Coordination Committee

- Establish next DEC Strategic Plans
- Budget management
- Implementation of the DEC Monitoring & Evaluation (M&E) system
- Review DEC guidelines
- DENs needs assessments

## Focus Group

### A “bridge” between Technical Committees and Stakeholders

cross-cutting, inter-disciplinary forums to meet sector needs and communicate with stakeholders

### Topics selected based on UN SDGs and regional priority needs

**Food Safety  
(FSFG)**



**Medical  
Metrology  
(MMFG)**



**Clean Water  
(CWFG)**



**Energy Efficiency  
(EEFG)**



**Climate Change  
& Clean Air  
(CCCAFG)**



**Digital  
Transformation  
(DXFG)**



(established in Dec 2021)



# APMP's activities

*continued to address  
the measurement needs  
against the global challenges*



## Hybrid Workshop on ISO/IEC 17043:2023 and ISO 13528:2022

- APMP TCQM held a workshop on “ISO/IEC 17043:2023 and ISO 13528:2022” from 19 to 21 March 2024 in HSA, Singapore. It was hosted by the HSA and NMC A\*STAR, Singapore and the SNSU-BSN, Indonesia.
- 32 onsite participants, about 230 participants joined the workshop online. Member institutes from 19 member economies benefited from the workshop.
- Mr. Steve Bruce Sidney was invited as the Trainer for the workshop. He was a Co-Convenor of ISO Working Group 57 (revision of ISO/IEC 17043) and had been deeply involved in the revision of both this standard ISO/IEC 17043:2023, as well as being a Co-Convenor of ISO 17025:2017





## Seminar on Metrology and Quality Control of Medical Imaging Devices

- APMP Medical Metrology Focus Group (MMFG) held a seminar on “**Metrology and Quality Control of Medical Imaging Devices**” in Shenzhen, China on November 28th, 2023.
- 25 participants (7 from online) from 13 institutes participated
- This bridged MMFG and European NMIs and kicked off the research collaboration on medical imaging among APMP members.
- Expect to contribute to technological development and promote the standardization in this field



Seminar on Metrology and Quality Control of Medical Imaging Devices		
Title	Speaker	Institute
Towards traceable qMRI measurements in vivo	Dr. Kathryn Keenan	NIST
NPL Metrology for Medical Physics	Dr. Matthew Hall	NPL
NIM Metrological Achievement for Medical Imaging Devices	Ms. Pu Zhang	NIM
KRISS Standards for Medical Imaging Devices	Dr. Il Doh	KRISS
Experience from Mammography and CT Quality Assurance Program	Dr. Chien-Hau Chu	INER
Quality Control and Practice for Whole Process and Multiple Elements of Medical Imaging	Dr. Hongxia Yin	Hospital
SAR Quality Control Protocols of MRI for Children with Autism Spectrum Disorder	Dr. Shijun Li	Hospital
Quantitative Measurements in Medicine	Prof. Tobias Schäffter	PTB



## International workshop "Measurement for Sustainable Energy"

- The APMP Energy Efficiency Focus Group, in collaboration with the DEC FG Task Force and National Institute of Metrology Thailand, conducted a two-day workshop "**Measurement for Sustainable Energy**" in conjunction with the ASEAN Sustainable Energy Week.
- APMP participants, along with 123 external attendees (87 Online and 36 Onsite) from government, industry and academia took part in the EEFG Seminar.
- The presentation topics covered by the vice president of Gunkul Engineering Public Company Limited and APEC Expert Group on EGNRET including 5 energy topics from NMIs in APMP, EURAMET and a University.
- Workshop Part II took place at National Institute of Metrology Thailand, Pathumthani. It focused on the information exchange and strengthening regional cooperation between NMI and their governments.



## APMP Recent News



The 40<sup>th</sup> APMP General Assembly and Related Meetings (APMP2024) will take place from November 22-29, 2024, at NPLI, New Delhi, India, hosting by CSIR-National Physical Laboratory.

You may visit the APMP website for further details

►► <https://apmpweb.org>

# Thank you.

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