

Asia Pacific Metrology Programme

APMP

APMP Report
The 17th EURAMET General Assembly
31st May 2023

APMP Secretariat



About APMP

Asia Pacific Metrology Programme (APMP) is

- An **association of National Metrology Institutes (NMIs)** from the Asia-Pacific region for improving regional metrology capability;
- One of the six **Regional Metrology Organizations (RMOs)** to implement the CIPM MRA for the worldwide mutual recognition of measurement standards and of calibration and measurement certificates;
- One of the **Specialist Regional Bodies (SRBs)** working with APEC to facilitate the development and implantation of standards and conformance infrastructures that addresses APEC goals.



Regional Metrology Organizations (RMOs)



(SRB in metrology)



(SRB in standardization)



(SRB in conformity assessment)

Members

Current members:

- 47 Full Member Institutes (28 economies) from the Asia Pacific Region
 - *[Two \(2\) NEW members](#) were approved at the 2022 APMP GA
 - [BQSF DMSc \(Thailand\)](#)
 - [NIMM \(Myanmar\)](#)
- 14 Associate Member Institutes (13 economies) from other regions
 - Africa (South Africa, Egypt, Kenya)
 - America (U.S.)
 - Europe (U.K.)
 - Central Asia (Kazakhstan, Uzbekistan)
 - Middle East (Iran, Iraq, Saudi Arabia, UAE)



- Full Member
- Associate Member

Responsibilities evolving over time

Worldwide Mutual Recognition Arrangement

To carry out regional comparisons of national measurement standards and measurement capabilities of NMIs

➔ Technical Committees (TCs)

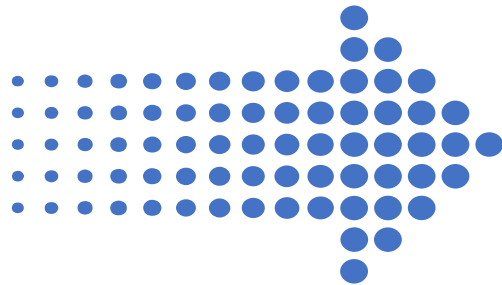
1999~

Impacts for stakeholders

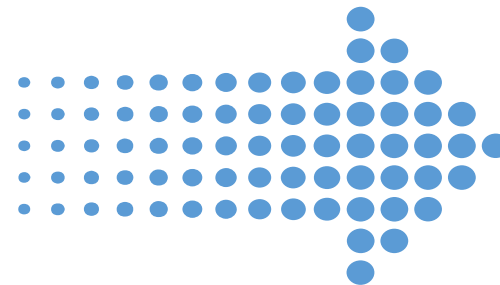
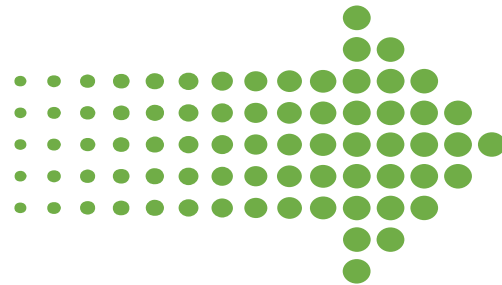
Develop capabilities and increase the impact of measurement in addressing regional challenges across priority sectors, such as environment and energy

➔ Focus Groups (FGs)

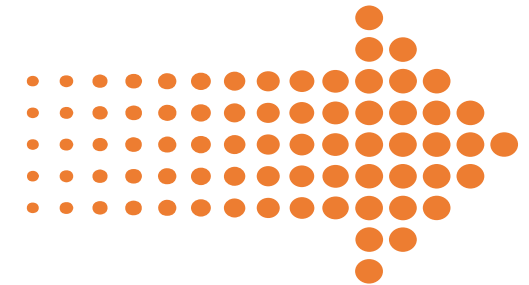
2014~



1980~



2000~



Capacity building of members

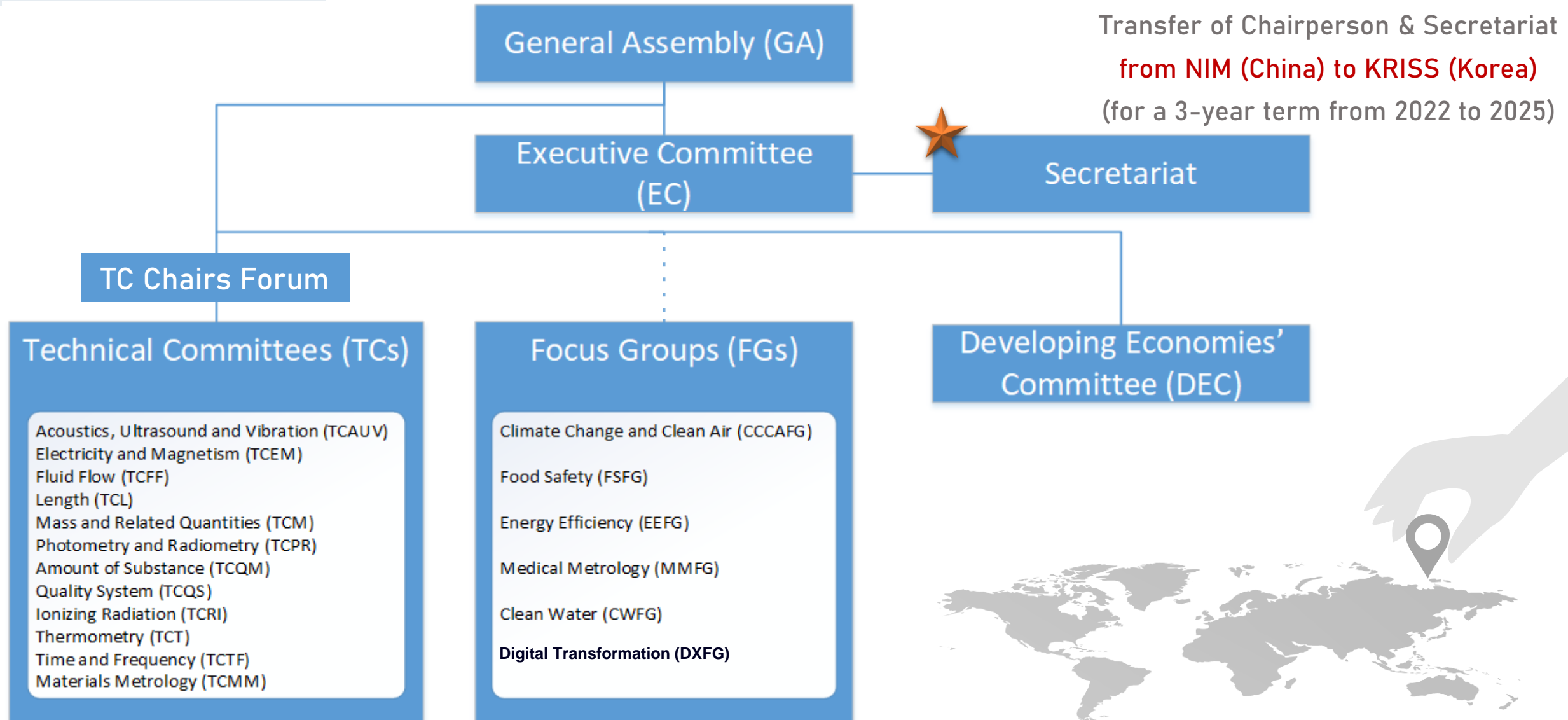
Training and calibration assistance to improve the capabilities of NMIs within the region

Assistance to Developing Economies

Help address the needs of APMP's developing member institutes and to coordinate associated programmes

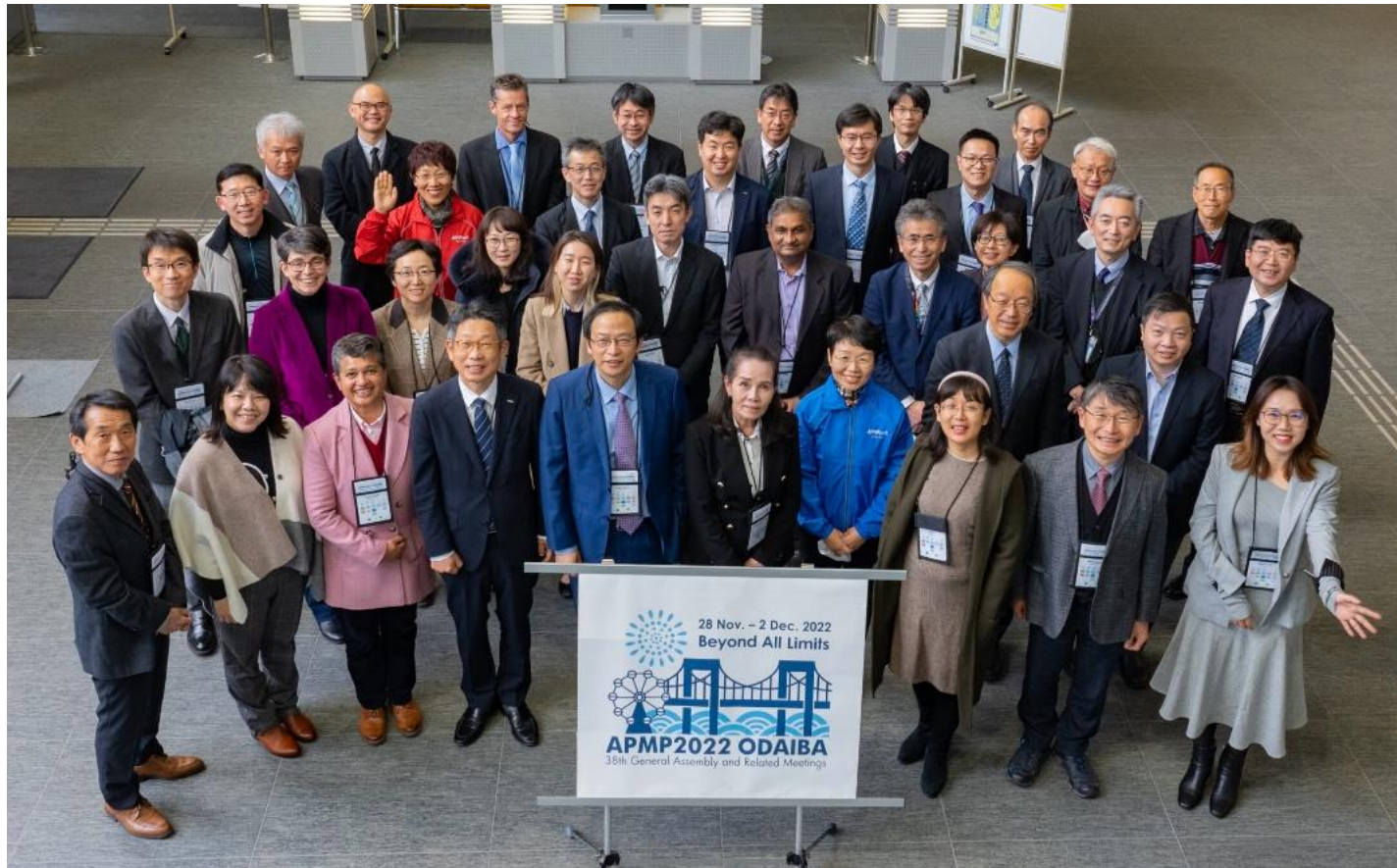
➔ Developing Economies' Committee (DEC)

Organizational Structure

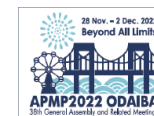


The 38th APMP General Assembly and related activities

The 38th APMP GA and related activities were successfully held from 28 November to 02 December 2022 at AIST Tokyo Waterfront, Odaiba Tokyo, Japan



7~25 Nov.	Monday 28 Nov.	Tuesday 29 Nov.	Wednesday 30 Nov.	Thursday 1 Dec.	Friday 2 Dec.
TC/TCWS FGWS DEC PT-WG		TCC EC	EC-CC	Handover meeting (Chairperson & Secretariat)	Lab tour
	TCC	NMI Directors' Workshop	APMP Symposium	GA	GA EC



Executive Committee Members



Chairperson
Hyunmin, Park
KRISS, KOREA
2022 GA – 2025 GA



Xiang, Fang
NIM, China
2019 GA-2023 GA



Tang Lin, Teo
HSA, Singapore
2018 GA-2023 GA



Takehiro, Morioka
NMIJ, Japan
2020 GA-2023 GA



Wei-En, Fu
CMS-ITRI, Chinese Taipei
2020 GA-2023 GA



Angela, Samuel
NMIA, Australia
2022 GA-2025 GA



Venu Gopal, Achanta
NPLI, India
2022 GA-2025 GA

Committee Chairs

3 new TC Chairs, the new DEC Chair, and a new PTWG Co-convenor started their terms during the 38th APMP GA in 2022.

Technical Committees (12)

Lead TC Chair
Victoria Coleman

TCAUV
Yong Tae Kim

TCEM
Yusong Meng

TCFF
Chunhui Li

TCL
Zi Xue

TCM
S.S.K. Titus

TCMM
Fang-Hsin Lin

TCPR
Annette Koo

TCQM
Byungjoo Kim

TCQS
Rugkanawan
Wongpithayadisai

TCRI
Chien Hau Chu

TCT
Hisashi Abe

TCTF
Dai-Hyuk Yu

Focus Groups (6)

CCCAFG
Fuu Ming Kai

FSFG
Hongmei Li

EEFG
Ilya Budovsky

MMFG
Xiang Ding

CWFG
Lindi Ma

DXFG
Blair Hall

Others

Developing Economies Committee
SDI Dias

APMP-APAC PT Working Group
Teo Tang Lin

Technical Committees: supporting the CIPM MRA Activities

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



All data listed in the KCDB have been reviewed and approved within the CIPM Mutual Recognition Arrangement

APMP participation in the CIPM MRA

42/251

CIPM MRA participants

151/1143

Key comparisons

6,759/25,807

CMCs published from APMP

123/671

Supplementary comparisons

(As of 1st March 2023)
Source: <https://www.bipm.org/kcdb/>

Focus Groups: Impacts for stakeholders

A “bridge” between Technical Committees and Stakeholders

cross-cutting, inter-disciplinary forums to meet sector needs and engage 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 officially joined the BIPM e-learning initiative

A Practical Agreement (PA) was signed between APMP and BIPM on November 7, 2022.

A preliminary work plan of the APMP E-learning Working Group was drafted to outline its programmes in APMP.

Preliminary Work Plan of the APMP e-Learning WG

1. Background information

- The BIPM launched an e-Learning Platform in April 2021 as part of the Capacity Building and Knowledge Transfer program (CBKT).
- As of today, 3 RMOs (COOMET, EURAMET, GULFMET) have signed practical arrangements with BIPM to participate in this initiative.
- The BIPM proposed that APMP should also participate in this initiative (Jan. 2022), and so the APMP e-Learning Working Group¹⁾ was formed to implement and facilitate this idea according to the 37th EC-CC Meeting Resolution²⁾. The APMP will sign a Practical Arrangement with the BIPM before the 38th GA in 2022 to formally participate in this initiative.

1) Working Group Members

Dr. Hyun-Min Park	Chair-elect & EC Liaison of the E-Learning WG
Dr. Victoria Coleman	Lead TC Chair
Dr. Angela Samuel	DEC Chair
Dr. Yong Tae Kim	TCAUV Chair
Dr. Blair Hall	DXFG Chair
Dr. Jinyuan Li	NIM Secretariat
Ms. Tae-Yi Hong	KRISS Secretariat



This Practical Arrangement shall enter into force upon its signature by the duly authorized representatives of both Parties, and its provisions will remain applicable until this Practical Arrangement is terminated in accordance with its terms.

IN WITNESS WHEREOF, the undersigned, being duly authorized thereto, have signed this Practical Arrangement in duplicates in English.

A blue ink signature of Dr. Martin Milton over a circular seal of the Bureau International des Poids et Mesures (BIPM). The seal features the text "Bureau International des Poids et Mesures" around a central emblem.

For the BIPM
Dr Martin Milton
Director

Date: 7/11/22
Place: Sèvres, France.



A blue ink signature of Mr. FANG Xiang.

For APMP
Mr. FANG Xiang
Chairperson

Date: 07.11.2022
Place: NIM, China

Engagement with Stakeholders

MOU signed between APMP and IMEKO on November 22, 2022

- To strengthen communication and collaboration between the two organizations.
- Jointly organize or co-sponsor activities such as conferences, symposia, workshops etc. where appropriate.
- Foster closer international cooperation among scientists and experts from both communities.
- Set up joint working groups to address common topics when necessary.



IN WITNESS THEREOF, the parties have caused this Memorandum of Understanding to be executed in duplicate in English, with each of the copies being equally authenticated by their duly authorized representatives.

FOR THE ASIA PACIFIC
METROLOGY PROGRAMME
(APMP)

FOR THE INTERNATIONAL
MEASUREMENT
CONFEDERATION (IMEKO)

Mr FANG Xiang
APMP Chairperson

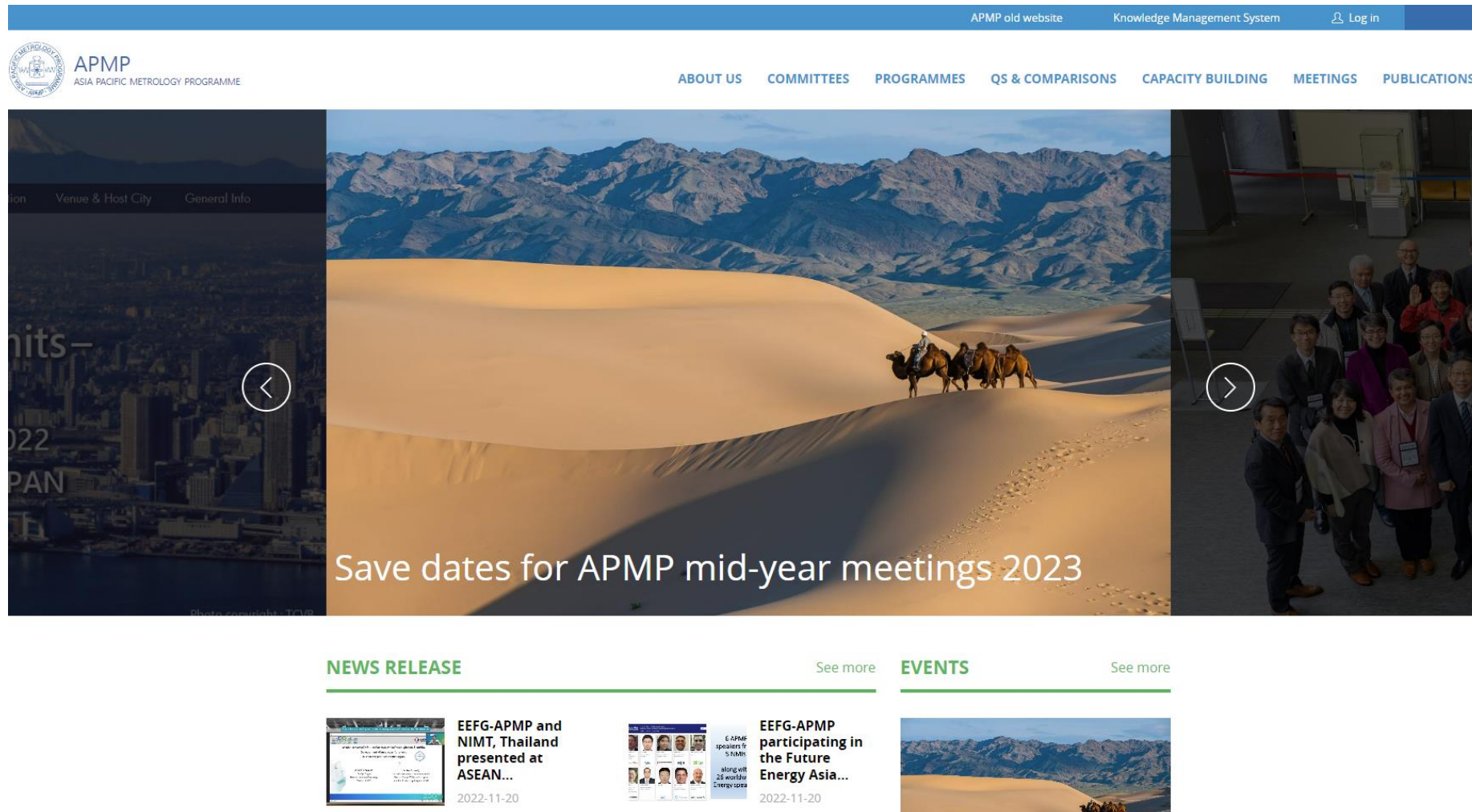
Date: 22 November 2022

Professor Frank Härtig
President of IMEKO

Date: 21 November 2022

APMP website renovation

The renovated APMP website is now ready for the official launch in June 2023.



Thank you



APMP Secretariat / APMP_Secretariat@kriss.re.kr