

Asia Pacific Metrology Programme

APMP's Report to COOMET 2010



Myungsoo KIM

Executive Member of APMP

President of KRISS

Korea Research Institute of Standards and Science

Contents

- **Update of APMP General Information**
 - New members of APMP
 - Change of Chairperson and Secretariat
 - New EC members
 - New TC Chairs
- **Highlights of APMP Activities**
 - APMP GA 2009 and related meetings
 - APEC SCSC and related activities
- **International Events of Metrology in 2010**



What is APMP Asia-Pacific Metrology Programme

- Regional collaboration of National Metrology Institutes (NMIs) in the Asia Pacific region since 1977
- Engaged in improving regional capability in metrology
- Through sharing expertise and exchanging technical services among its member laboratories;
- Regional Metrology Organization (RMO) recognized by the CIPM for the purpose of worldwide mutual recognition of measurement standards and of calibration and measurement certificates;
- One of APEC's Specialist Regional Bodies (SRBs): APMP, APLAC, APLMF, PAC, PASC



What is APMP Asia-Pacific Metrology Programme

MISSION:

- To promote and support a measurement infrastructure in the Asia Pacific region;
- To facilitate international trade, improve industrial efficiency and competitiveness;
- To ensure equity in the marketplace, and enhance the quality of life and the environment

MEMBERS:

28 members

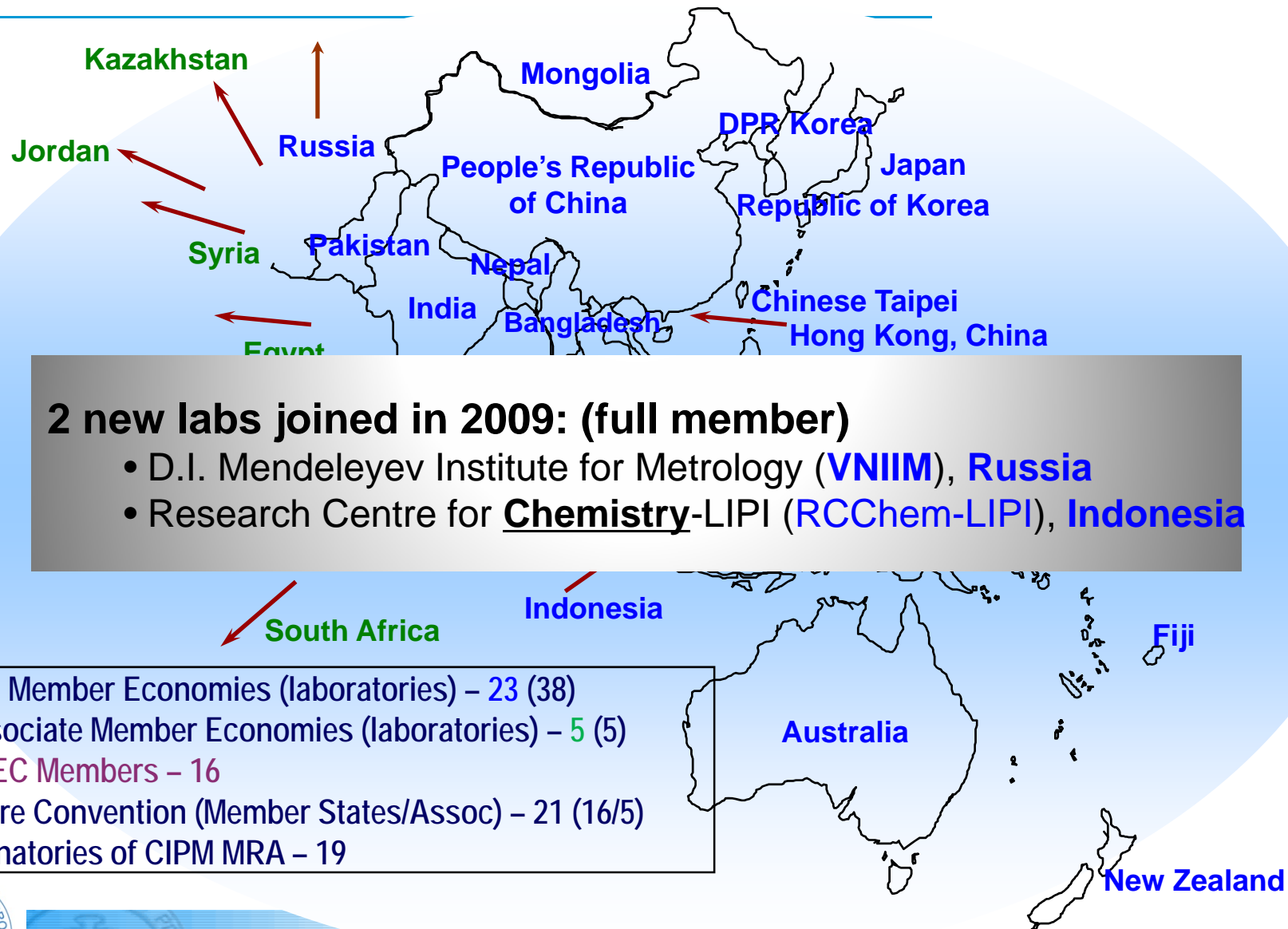
43 labs

- **Full Member** Economies (laboratories) – 23 (38)
- **Associate Member** Economies (laboratories) – 5 (5)
- APEC Members – 16
- Metre Convention (Member States/Assoc) – 21 (16/5)
- Signatories of CIPM MRA – 19

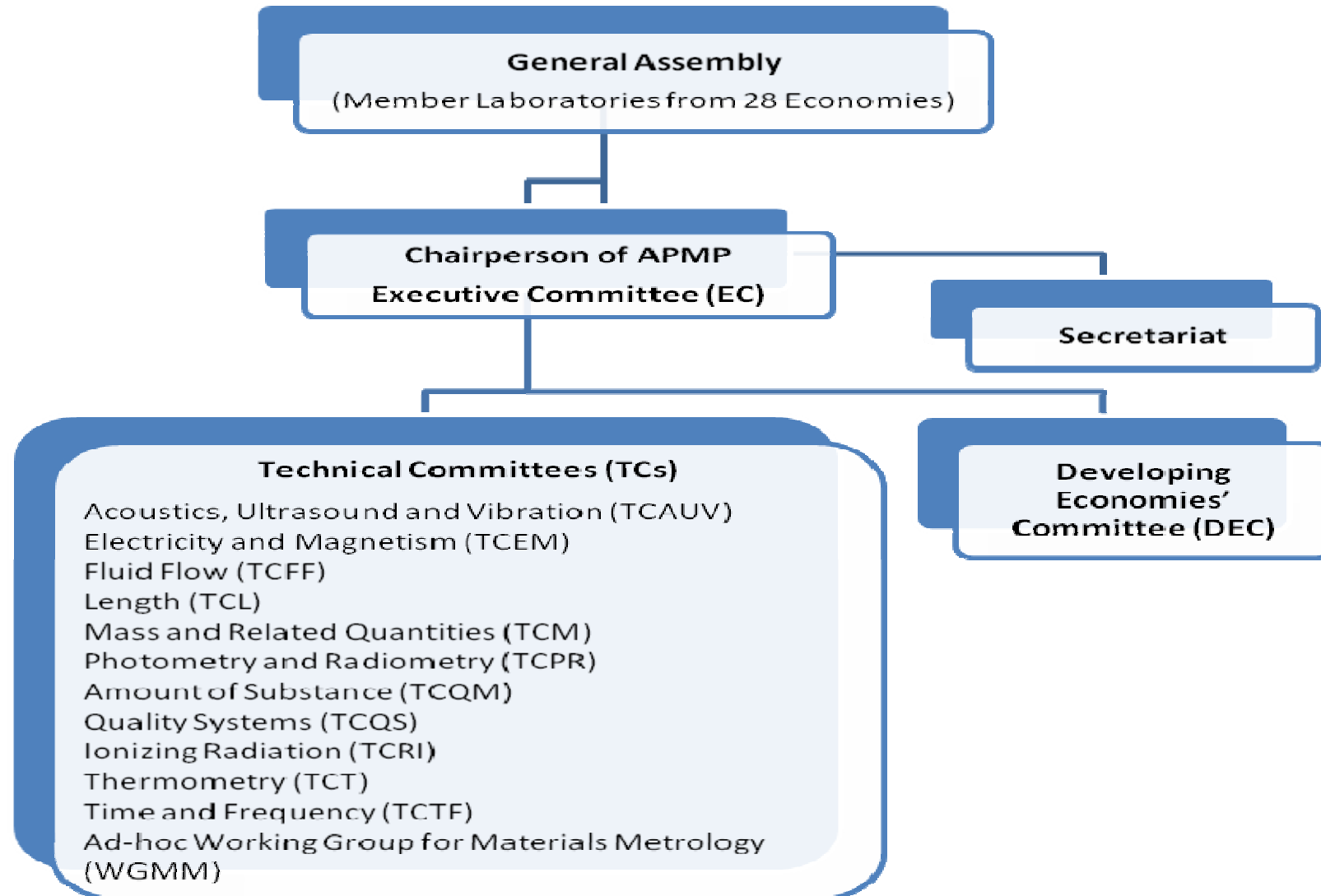


Asia Pacific Metrology Programme

28 Members of APMP (as of Dec 2009)



APMP Organization



Handover of Chairperson and Secretariat

Since 25th GA, Dec 19, 2009

APMP Chairperson
Dr. Chung Kwang Hwa
APMP Secretariat
Dr. Woogab Lee
Korea Research Institute of
Standards and Science (KRISS)
Dec 2007~Dec 2009

APMP Chairperson
Prof. Yu Yadong
APMP Secretariat
Ms. Cai Juan (Ada)
National Institute of Metrology (NIM),
China
Dec 2009~Dec 2011



Asia Pacific Metrology Programme

APMP Executive Committee, 2010

2 new EC members elected at GA 2009

- Prof. YU Yadong (NIM, China): APMP Chairperson
- Dr. Duann Jia-Ruey (CMS-ITRI, Chinese Taipei): liaison between EC and TC chairs
- Dr. Yoshio Hino (NMIJ, Japan): liaison between EC and TC chairs
- Dr. Angela Samuel (NMIA, Australia): APEC SCSC, SRBs, DEC
- Dr. Chua Sze Wey (A*STAR, Singapore): APMP Treasurer
- Dr. Myungsoo Kim (KRISS, Korea): liaison between APMP and international organizations
- Dr. A K Bandyopadhyay (NPLI, India): Award Advisory Committee Chair



APMP TC & DEC Chairs, 2010

3 new TC chairs and new DEC chair elected at GA 2009

- **TCAUV:** Dr Takashi Usuda, NMIJ, Japan
- **TCEM:** Dr Ilya Budovsky, NMIA, Australia
- **TCFF:** Dr Jiunn-Haur Shaw, CMS/ITRI, Chinese Taipei
- **TCL:** Ms Siew Leng Tan, A*STAR, Singapore
- **TCM:** Dr Samyong Woo, KRISS, Korea
- **TCPR:** Dr Seung Kwan Kim, KRISS, Korea
- **TCOM:** Dr Della SIN, GL, Hong Kong China
- **TCQS:** Ms Ajchara Charensook, NIMT, Thailand
- **TCRI:** Dr Ming-Chen Yuan, INER, Chinese Taipei
- **TCT:** Dr Juntaro Ishii, NMIJ, Japan
- **TCTF:** Dr Mizuhiko Hosokawa, NMIJ, Japan
- **WGMM:** Dr Tetsuya Baba, NMIJ, Japan
- **DEC:** Mr Abdul Rashid bin Zainal Abidin, SIRIM, Malaysia

DEC: Developing Economies' Committee



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APMP GA 2009 and related meetings (1/4)



- 10~18 Dec 2009
- Kuala Lumpur, Malaysia
- Hosted by NML/SIRIM

- *Nearly 80 participants:*
 - - 17 full & 3 associate APMP Member economies
 - - BIPM, CIPM, EURAMET, AFRIMETS, COOMET, APLAC, UNIDO, IAEA, NCSLI, and PTB

- General Assembly (GA)
- Executive Committee (EC) Meeting
- 11 Technical Committee (TC) Meetings
- Joint EC/TCC Meeting
- Developing Economies' Committee (DEC) Meeting
- Symposium, Laboratory Visits

Satellite Meetings

- Joint APEC "APMP-SIM Workshop on Peer Review of Quality Management Systems"
- TCL, TCEM and TCQM Workshops



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APMP GA 2009 and related meetings (2/4)

1. Elections of:

- New Chairperson
- 2 new EC members
- 3 new TC Chairs and new DEC Chair
- Transfer of Secretariat from KRISS (Korea) to NIM (China)

2. Approval of:

- ① Modification of APMP MoU
 - no policy changes, only update of text to recognize or emphasize:
 - APMP's role as a RMO and top priority given to MRA activities
- ② APMP Workplan 2010
 - Priority activities of the year



APMP GA 2009 and related meetings (3/4)

2. Approval of: *(continued)*

③ Budget for FY 2009/2010

- New budget item for TC initiatives: to encourage scientific collaboration on measurements for new technologies

④ “NMI Directors Workshop” with APMP 2010

- **Goal:** To enable in-depth discussion between NMI Directors on issues of common interest and to increase effectiveness of APMP activities

⑤ Host for APMP GA 2010, 2011, 2012

- GA 2010: 14-20 Nov 2010, Pattaya, Thailand
- GA 2011: 4-9 Dec 2011, Kobe, Japan
- GA 2012: New Zealand (to be confirmed)



APMP GA 2009 and related meetings (4/4)

3. Feedback to Actions of 23rd JCRB

Action 23/2: participation of private companies in comparisons carried out under the CIPM MRA

APMP:

- Only members of APMP and other NMIs/DIs outside APMP can take part in any comparisons!
- ☞ APMP-G2 (Guidelines on conducting comparison)

Action 23/3: need for maintaining periodic on-site reviews

APMP:

- Re-evaluation of QMS: within 5 years of the last evaluation by TCQS.
- Surveillance visits by ABs: every 12-18 months
- ☞ APMP QS2 (Guidelines for Accepting a Quality System) under revision to add items of;
 - On-going monitoring of QMS, Re-approval of QMS,
 - Format for technical peer, and Quality system expert approval



APEC SCSC *Sub-committee on Standards and Conformance*

Joint APMP-SIM Workshop

on Peer Review of Quality Management Systems as the Basis of CIPM MRA
(APEC CTI 29/2007T)

- Date: 11 December 2009
- Venue: Novotel Kuala Lumpur City Centre, Malaysia
- Participants: 41 people from 12 economies
- Objective
 - To share the recent guidelines of peer reviewers
 - To share the experiences of peer reviews

Economy	Participants	Economy	Participants	Economy	Participants
Australia	1	Indonesia	1	Rep. Korea	1
Brazil	1	Japan	7	Singapore	2
China	1	Jordan	1	Thailand	3
India	2	Malaysia	19	Vietnam	2



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APMP Meeting Calendar, 2010

Category	Event	Date	Venue
APMP Meetings	Mid year EC/TCC/DEC meeting	July 5-8	Philippines
	26th APMP GA & related meetings	Nov 14-20	Pattaya, Thailand
Other RMO Meetings & SRB Meetings	APEC SCSC I	Mar 2-7	Hiroshima, Japan
	APEC SCSC II	Sep	Japan
	COOMET GA	April 21-22	Astana, Kazakhstan
	EURAMET GA	May 25-28	Lisbon, Portugal
	AFRIMET GA	Sep 23-24	Egypt
	PAC Plenary	June 12-19	New Zealand
	NCSLI	July 25-29	USA
	APLMF GA	Sep 17-18	Canada
	SIM GA	Oct 18- or 25-	Saint Lucia
	APLAC GA	Dec 9-10	Osaka, Japan
MRA Meetings	JCRB I	Mar 16-17	BIPM
	JCRB II	Sep 21-22	Egypt



International Events of Metrology 2010

CPEM 2010

27th Conference on Precision Electromagnetic Measurements

13~18 June 2010 at Daejeon, Korea



- Host: Korea Research Institute of Standards and Science (KRISS)
- <http://cpem2010.kriss.re.kr/>
- Registration : ~ 30 April 2010

CPEM 2010 27th event in a series of biennial international conferences that began in 1958 in USA

SCOPE and Major Focus

- **Quantum devices** that relate **electrical standards to fundamental constants** and the international system of units.
- **Metrology for energy and environment** in response to the global climate change challenges,



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CPEM 2010

27th Conference on Precision Electromagnetic Measurements

13~18 June 2010 at Daejeon, Korea

SCOPE

The CPEM (Conference on Precision Electromagnetic Measurements) is devoted to topics related to the measurement of electromagnetic quantities at the highest accuracy levels. These cover the frequency spectrum from dc to the optical region. A major focus of this conference is quantum devices that relate electrical standards to fundamental constants and the international system of units. In response to the global climate change challenges, metrology for energy and environment will be presented as a special topic for discussion.

CPEM attracts a highly specialized international participation. The principal types of organizations that participate in CPEM are the national standards laboratories; industrial organizations that manufacture electrical standards and measurement instruments; industrial and government laboratories that interact extensively with national laboratories; and universities that conduct research on precision measurements, standards and related fundamental constants.

Attendance at CPEM is considered a must for the researchers and metrologists who are interested in electromagnetic measurement technology and its applications.

CPEM 2010, hosted by Korea Research Institute of Standards and Science (KRISS), is the 27th event in a series of international conferences that began in 1958 in Boulder, Colorado, USA. It will provide a forum for the discussion of present research and development activities and future prospects.

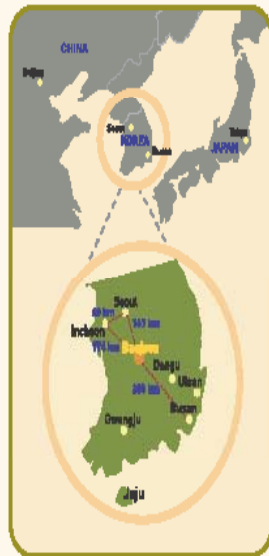
The CPEM 2010 technical program will consist of oral and poster sessions including a number of invited presentations by leading scientists working at the frontiers of measurement science and technology. This conference will contribute to further development of related fields.

More detailed information on the scope of the conference can be found on the conference web site.

Important Dates

- Paper Submission Deadline **January 15, 2010**
- Acceptance Notification **March 12, 2010**
- Early Registration Deadline **April 30, 2010**

Location



Conference Secretariat

E-mail: secretariat@cpem2010.org
Tel: +82-42-472-7464 Fax: +82-42-472-7459
Web Site: <http://cpem2010.kriss.re.kr>



KRISS Korea Research Institute of Standards and Science

Plenary Speakers

Bryan Kibble

National Physical Laboratory, UK

SI Units, Realization and Redefinition

Hidetoshi Katori

University of Tokyo, Japan

Optical Lattice Clock

Andrew Wallard

Bureau International des Poids et Mesures

Global MRA

Jukka Pekola

Helsinki University of Technology, Finland

Single-electron pumping

Eddy So

NRC, Canada

Smart Grid and High Voltage Measurements

International Events of Metrology 2010

APMP General Assembly 2010



Host: National Institute of Metrology, Thailand

14-20 November 2010 at Pattaya, Thailand

<http://apmp2010.nimt.or.th>

Registration : 1 June – 31 August 2010

FLOMEKO 2010

15th International Flow Measurement Conference



Host: Center for Measurement Standards/ITRI, Taiwan

13-15 October 2010 at Hsinchu, Taiwan

<http://www.flomeko2010.itri.org.tw/>

Registration : ~ 15 August 2010



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감사합니다~!

Gam-sa-ham-ni-da~



Thank you!