



# Recent developments of APMP

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APMP Chairperson

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# What is APMP

- **A collaboration of National Metrology Institutes (NMIs)** in the Asia Pacific region since 1977 engaged in improving regional capability in metrology
- **A regional Metrology Organization (RMO)** recognized by the CIPM for achieving 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**



Full member economies



Associate member economies



# Members

**Full Member Economies (labs) – 23 (38)**

**Associate Member Economies (labs) – 6 (6)**

- *Metre Convention (Member States/Assoc) – 22 (17/5)*
- *Signatories of CIPM MRA – 21*
- *APEC members - 16*

## ***Expansion of members:***

**2 new labs joined in 2009: (full member)**

- **VNIIM, Russia**      **RCChem-LIPI, Indonesia**

**1 new lab joined in 2010: (associate member)**

- **KEBS, Kenya**

**Membership in progress:**

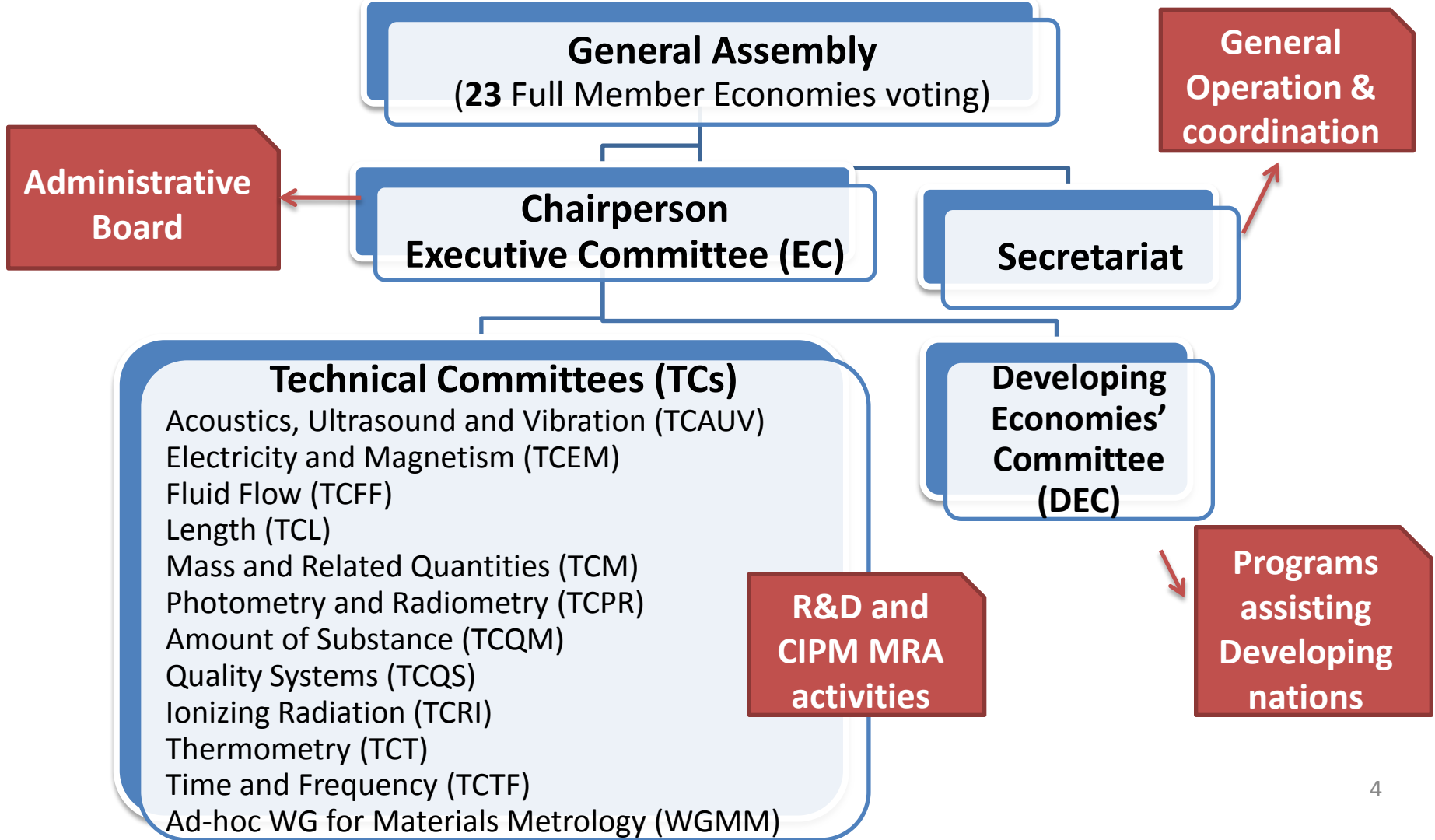
- **National Standards Centre (NSC), Brunei**



Associate member economies



# Organization







# Executive Committee

1. Prof. YU Yadong (NIM, China): **APMP Chairperson** (Secretariat: NIM, China)
2. Dr. Duann Jia-Ruey (CMS-ITRI, Chinese Taipei): ***liaison between EC and TC chairs***
3. Dr. Angela Samuel (NMIA, Australia): ***APEC SCSC, SRBs, DEC***
4. Dr. Myungsoo Kim (KRISS, Korea): ***liaison between APMP and international organizations***
5. Dr. A K Bandyopadhyay (NPLI, India): ***Award Advisory Committee Chair***
6. Dr. Yukinobu Miki (NMIJ, Japan): ***liaison between EC and TC chairs***





# APMP Activities

- APMP Members collaborate, under an effective coordination of currently established operational bodies (EC, Secretariat, TC, DEC) to promote development of metrology in the region through:
  1. Implementation of the CIPM Mutual Recognition Arrangement (MRA) in the region
  2. Supporting member economies in establishing or improving metrological capabilities
  3. Promoting the technical (R & D) cooperation among the member economies and laboratories
  4. Establishing and maintaining effective links with other Stakeholder Organizations (RMOs, SRBs, APEC SCSC)
  5. -----



# Highlights of APMP GA 2010



**8-21 November 2010, Pattaya, Thailand**

**attended by over 300 participants from 20 member economies, BIPM, CIPM, EURAMET, AFRIMETS, COOMET, APLAC, PTC...**

## ***Meetings & events:***

- General Assembly (GA)
- Executive Committee (EC) Meeting
- Meetings of 11TCs & WGMM
- Developing Economies' Committee (DEC) Meeting
- Symposium on the Role of Measurement Science for Innovation and Societal Well-Being
- 9 Satellite Meetings
  - TCM (pressure) , TCEM (digital multimeter), TCL (CMM, angle standards), TCQM, TCPR, TCFF, TCAUV, TCM (pressure & vacuum) workshops
- Laboratory Visits





# **Highlights of GA 2010 Decisions**

- 1. Approval of Modification of APMP Memorandum of Understanding (MoU):**
  - 1. Term of chairperson, TC & DEC chair extended from 2 to 3 years**
  - 2. DEC open to all Members institutes of APMP**
- 2. Approval of extending the office term of Prof. Yu Yadong, the incumbent APMP Chairperson, for one more year until GA 2012**
- 3. Approval of APMP Work plan & budget plan, 2011**
- 4. To allocate, with in 2011, two years' "TC initiative" budget of 40,000 USD to projects proposed by TCs and evaluated by EC against criteria**
- 5. Adoption of a revised APMP Guidelines for Accepting a Quality System and APMP intra-review CMC flow-sheet**
- 6. To establish a New Award for DEN members in recognition of individuals' contributions to establishing new laboratories in DENs**
- 7. Approval of APMP website renewal project to improve management efficiency**





# What are the key new developments of APMP in 2010&2011?

1. Launching of “TC Initiatives” Programs
2. Launching of APMP NMI Directors’ Workshop
3. Enhancing the ties with international & regional stakeholder organizations



# TC Initiatives

- Proposed in GA 2009, a new move of APMP towards encouraging high level collaborative research, and developing of new technologies and new services for industries & trade.
- Candidate projects proposed by TCs, evaluated by EC, against criteria which gives high priority to innovation and collaboration.
- In January 2011, 35,000 USD out of 40,000 USD, a combination of two years' "TC Initiative" budget (FY 09/10 and FY10/11) granted to 7 proposals, cover activities from Strategic Planning workshop to conferences and comparisons as follows:

## **1. Workshop on Strategic Planning & Regional/national Roadmapping**

- Invited Programme Manager of EMRP, *Dr Duncan Jarvis (NPL)*, a key expert on national/regional roadmapping, to provide EC and TC Chairs with a direct insight into the strategic planning processes under taken by the European metrology community.
- To take place in June 2011 during APMP midyear meeting



# TC Initiatives

2. ***Joint research project on primary shock acceleration comparison with laser interferometry*** - The 1st international key comparisons in shock
3. ***Traceability Scheme Study for LPG Metering*** - To simplify the LPG traceability method by utilizing water as test medium while keeping the same accuracy.
4. ***Nanoparticle Characterization - Supplementary Comparison on Nanoparticle Size*** - a joint effort between TCL and WGMM for a harmonization of measurement capability and CMC submission
5. ***APMP TCPR Key Comparison on Luminous Intensity (APMP.PR.K3)***
6. ***Support 2 persons attend 1<sup>st</sup> CCQM Microbiology Workshop***
7. ***SI traceable thermophysical properties comparison***
  - TCT & WGMM are to set up a new “Thermophysical property” WG. The fund will support a new APMP supplementary comparison of thermal diffusivity measurement, a worldwide pioneer work of RMO supplementary comparison of thermophysical property.





# 1<sup>st</sup> APMP NMI Directors' Workshop

- A new initiative to enhance high-level communications on issues of strategic importance
- Expected results:
  - *Key learning from shared experiences*
  - *Opportunities for cooperation*
  - *Possible APMP support*

1<sup>st</sup> workshop:

***“Stakeholder Relationships & National Road Mapping”***

GA 2010 Thailand, attended by 20 APMP Directors, BIPM Director, CIPM Secretary, invited CIPM member...







# Enhanced collaboration with stakeholder organizations (SOs)

**APMP's contacts & collaborations with SOs great enhanced since 2010 after adopting a series of new policies:**

1. APMP will have an annual review and prioritization of SOs
2. APMP will increase its representation in SO activities (via EC members' participation) with cost shared by NMIs and APMP
3. APMP will invite CIPM members from the region to attend annual GA and Directors' Workshop
4. APMP is in a process of establishing cooperation framework with more SOs and organize more joint activities for meaningful outcomes





(continued)

# APMP-APLAC

- A MoU signed in 2008 between APMP and APLAC
- An annual Chairs Meeting held since 2007, to discuss and form actions on issues of common interests
- In addition to Chairs meeting, will further establish contacts at TC level (esp. between APMP TCQM chair/TCQS chair and APLAC PT committee chair/Training committee chair) for better exchange of information
- Cooperation with APLAC in Proficiency Testing Schemes:
  - APMP member NMIs encouraged to assist PT providers with provision of reference values, RMs and protocols, etc.



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## APMP-APLMF

- APMP is in a process of formulating a MoU with the Asia Pacific Legal Metrology Forum (APLMF), now a draft text ready for approval, the MoU to be signed in 2011.
- This will be the second MoU between APMP and other SRB, following the first one with APLAC.
- A symposium on “the role of metrology in supporting sustainable development” jointly proposed by APMP & APLMF Secretariats is to take place in Beijing in November 2011, sponsored by AQSIQ, China



# APMP - EURAMET

- ***EURAMET: one of top-priority stakeholder organizations to APMP***
- ***Over years maintain good contacts & mutual visits:***
  - ***APMP's representation in EURAMET GA:***
    - 2010 Lisbon: Dr. AKB, EC member    2011 Sarajevo: Prof. Yu, Chairperson
  - ***EURAMET's representation in APMP GA:***
    - 2009 Kuala Lumpur: Dr. Wolfgang Schmid    ***2010 Pattaya: Dr. Leslie pendrill***

*A invited  
speaker with  
valuable  
inputs*



*as well as,  
a charming  
singer...*



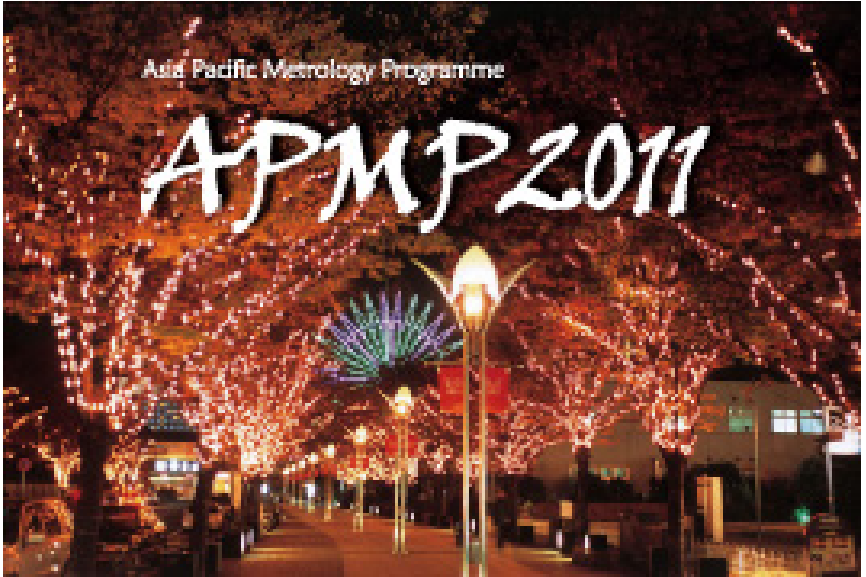




# APMP - EURAMET

- ***2 collaborative events to be held in 2011 during APMP midyear meeting in June in Ulan Bartar***
- ***Workshop on Strategic Planning & Regional/national Roadmapping***  
(Invited Programme Manager of EMRP, Dr Duncan Jarvis (NPL))
- ***DEC inter-RMO workshop*** for reviewing the activities currently underway within each RMO to assist small, emerging and developing economy NMIs and discussing future actions (with participation of Dr Wolfgang Schmid, EURAMET Head of Secretariat)

***APMP expects more collaboration and sharing of experience with EURAMET***



*Kobe International Conference  
Center, **Kobe, Japan**  
4<sup>th</sup>-9<sup>th</sup>, December 2011  
Hosted by the National Metrology  
Institute of Japan (NMIJ).  
<http://www.apmp2011.jp>*







*Thank you!*  
<http://www.apmpweb.org>

