

APMP-APLAC Joint Proficiency Testing (PT) Working Group – Latest Progress

APLAC PTC Meeting, 5 June 2018

Joint Collaborations between APMP and APLAC

- In November 2013, the APMP-APLAC Joint Proficiency Testing Working Group (PTWG) was established.



- The Joint PTs are planned to enhance the metrological capability and technical competence of field analytical laboratories in the Asia-Pacific region with metrologically traceable reference values provided by NMIs/DIs for performance evaluation.



Terms of Reference of APMP-APLAC Joint PT WG

- (i) Develop and prioritise the schedule of joint PT programmes,
- (ii) Develop the overall design and conduct of joint PT programmes,
- (iii) Recommend to APLAC PT Committee for approving suitable NMIs/DIs to coordinate joint PT programmes with reference values,
- (iv) Nominate potential NMI/DI for participations,
- (v) Recommend mode of reference values assignment,
- (vi) Review the draft final report and make recommendation to APLAC PT Committee,
- (vii) Review any problems which may have arisen in joint PT programmes,
- (viii) Identify technical development, training needs and recommend follow-up actions to appropriate committees of APLAC and APMP.

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Membership of the APMP-APLAC Joint PT WG (as at November 2017)

- **Convenors:**
 - Dr. Della SIN, APMP
 - Dr. Ping HE, APLAC
- **Members :**
 - ◆ **APMP side**
 - Dr. Osman ZAKARIA (representing APMP EC)
 - Dr. Nurhani ARYANA (representing APMP DEC)
 - Dr. Liandi MA (TCQM Chair)
 - Ms. Meg CROFT
 - ◆ **APLAC side**
 - Mr. Yoshinobu UEMATSU (representing APLAC BOM)
 - Mr. Brahim HOULA (APLAC PT Committee Secretary)
 - Dr. Gyung-ihm RHYU
 - Mr. W W WONG

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Meetings

- Preparatory Meeting for the APMP-APLAC Joint PT WG
24th November 2013, Taipei, Taiwan
- 1st APMP-APLAC Joint PT WG Meeting
21st September 2014, Daejeon, Korea
- 2nd APMP-APLAC Joint PT WG Meeting
1st November 2015, Beijing, China
- 3rd APMP-APLAC Joint PT WG Meeting
13th November 2016, Danang, Vietnam
- 4th APMP-APLAC Joint PT WG Meeting
26th November 2017, New Delhi, India

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Meeting mechanism

At the onset, the Joint Working Group agreed to have its annual meeting alternatively in the week of APMP GA and APLAC GA. In 2017 Joint Working Group Meeting, members agreed to hold the Joint Working Group meetings in the APMP GA week. APMP experts are welcome to join APLAC (APAC) meetings. The coming meetings are scheduled as follows:

- 5th APMP-APLAC Joint PT WG Meeting
25th November 2018, Singapore
- 1st APAC Meeting
15 – 22 June 2019, Singapore (Any member who is interested to represent the joint WG?)

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Current Status of PT Programmes

Joint Study No.	Coordinator(s)	Status
APLAC T093 Determination of lead and cadmium in cabbage	KRISS/KOLAS	Starting Date: July 2014 Now completed
APLAC T094 Determination of p,p'-DDE and α -endosulfan in cabbage	KRISS/KOLAS	Starting Date: July 2014 Now completed
APLAC T095 (in parallel with CCQM-K124) Determination of cadmium and calcium in drinking water	NMIJ/GLHK	Starting Date: August 2014 Now completed
APLAC T100 Determination of lead and cadmium in wheat flour	KRISS/KOLAS	Starting Date: June 2015 Now completed
APLAC T102 Pesticides (carbofuran & endosulfan sulfate) in fruit juice	GLHK	Starting Date: November 2015 Now completed
APLAC T105 Nutritional elements (iron & zinc) in wheat flour	KRISS/KOLAS	Starting Date: June 2016 Now completed

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Current Status of PT Programmes

Joint Study No.	Coordinator(s)	Status
APLAC T106 (in parallel with APMP.QM-S11) Organochlorine pesticides (α -BHC & lindane) in ginseng root	GLHK	Starting Date: November 2016 Final Report: End of 2018 (In progress) – pending confirmation of SCRVs
APLAC T107 (in parallel with APMP.QM-S10) Elements (zinc, manganese, calcium & magnesium) in food supplement	GLHK	Starting Date: November 2016 Final Report: June/July 2018 (In progress)
APLAC T108 (in parallel with CCQM-K146) Benzo[a]pyrene in olive oil	NIM	Starting Date: November 2017 Deadline for submission: March 2018 (In progress)
APLAC T109 Cadmium in milk powder	NIM	Registration was completed in May 2018 (In progress)

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Findings of APLAC-APMP Joint PTs

- Proficiency testing is a valuable tool for evaluation of the performance of participating laboratories and assists the participants to identify problems and/or areas of improvement on their analytical methods used, in particular for
 - sample pre-treatment / preparation
 - extraction conditions
 - instrumental techniques
 - estimation of measurement uncertainty

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Findings of APLAC-APMP Joint PTs

- Use of reference values traceable to the International System of Unit (SI) provided by NMIs/DIs (with relevant CMCs claims and/or use of KCRVs/SCRVs):
 - allowing the rigorous evaluation of the accuracy of participants' results
 - enhancing the quality of the PT programmes
 - building measurement capabilities of participants through better regional linkage between the NMIs/DIs and the field laboratories in the Asia-Pacific region

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Plans of APLAC-APMP Joint PT Working Groups

- Continue the efforts of capacity building of laboratories in Asia-Pacific through better linkage of NMIs/DIs and field laboratories
- For chemistry PTs, the measurand/matrix will be systematically chosen to help the laboratories/ABs to identify areas for improvements
- Possible extension of joint PT efforts to the physical fields
- A new PT proposal on measurement of toxic metal/metalloid species (Cd, total As and inorganic As) in powdered rice was discussed and agreed at the 2017 meeting and tentatively scheduled for commencement in 2019

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Thank You !

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