



Synopsis on the actions and decisions arising from the 28th meeting of the CCT (2017)

The Consultative Committee for Thermometry (CCT) held its 28th meeting from 1 to 2 June 2017 at the BIPM. The 2017 meeting was focused on the redefinition of the kelvin. The conditions set in the Recommendation CCT T 1 (2014) have been fulfilled which triggered a new Recommendation CCT T 1 (2017) addressed to the CIPM on the redefinition and the opportunity that it offers. The accomplished work is supported by a complete main document on its *Mise en Pratique* and annexes.

The CCT meeting began with three talks, each dedicated to a technique that has allowed contributing data to the redefinition – acoustic gas thermometry, dielectric constant gas thermometry and Johnson noise thermometry, followed by a review on the data status and consequences, and a summary on the *Mise en Pratique*.

The working and task groups met the days before the CCT plenary meeting. The task groups for the *Système International*, for the *Realization of the Kelvin* and for *Sealed Metal Fixed Point Cells* had fulfilled their mission and were therefore closed. The CCT recommended the CIPM that the task group for *Environment* becomes a working group to allow for a longer term strategy. A new task group was formed that will study the impact of *Emerging Technologies*, such as photonic techniques.

The essential actions and decisions arising from the 27th meeting of the CCT (2014) are summarized below.

Actions

- CCT28/A1. Tobias Herman (NIST) will send CCT-K9 Draft A to participants by October 2017.
- CCT28/A2. B. Fellmuth (PTB) will address final version of the *Mise en Pratique* to the CCU for their September 2017 meeting, and appendices by December 2017.
- CCT28/A3. WG-SP shall provide the first revision of the CCT Strategic Planning by Dec-2017, coordinated by J. Fischer (PTB).
- CCT28/A4. WG-KC will update CCT President on silent comparisons and plans for their completion by October 2017.
- CCT28/A5. J. Fischer will draft a statement to clarify the relationship between the ITS-90 and the kelvin that will be posted on the BIPM web.
- CCT28/A6. B. Fellmuth will add a sentence to the MeP to clarify the relationship between the ITS-90 and the kelvin.
- CCT28/A7. S. Picard will move the CCT/08-19-rev document to the restricted area of the BIPM CCT web site.
- CCT28/A8. WG-SP to add a statement related to climate in its revision of the CCT Strategic Planning Document: J. Fisher will be provided a statement by the chair of TG-Environment A. Merlone.
- CCT28/A9. WG-CTh Chair will draft ToR and tasks for the TG-CTh-ET (Emerging technologies) and suggest members to the CCT president.

Decisions

- CCT28/D1. The CCT President will forward the CCT recommendation T1 (2017) to the CIPM.
- CCT28/D2. J. Fischer will co-ordinate the revision of strategic planning document.
- CCT28/D3. The CCT President will recommend the CIPM to attribute member status of the CCT to the CMI (Czech Republic).
- CCT28/D4. TG-SI is closed.
- CCT28/D5. TG-K is closed.
- CCT28/D6. TG-SMFPC is closed.
- CCT28/D7. The Task Group on Emerging technologies (TG-CTh-ET) is created under CCT-WG-CTh and chaired by Z. Ahmed.
- CCT28/D8. CCT President will recommend to the CIPM that C. Gaiser becomes Chair of CCT-WG-CTh.
- CCT28/D9. CCT president will recommend to the CIPM that CCT-TG-Env becomes CCT-WG-Env chaired by A. Merlone.
- CCT28/D10. Next meeting will be held at the BIPM in March or April 2020.

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