

## **TERMS OF REFERENCE FOR CCT WG-NCTh TASK GROUP ON RADIATION THERMOMETRY CMC REVIEW PROTOCOL**

### **1. Objective**

To prepare a draft revised version of the Radiation Thermometry CMC Review Protocol for approval by the CCT WG-CMC, in order to meet the emerging needs to review calibration and measurement capabilities (CMCs) of thermodynamic temperature, and of ITS-90 disseminated by high-temperature fixed points (HTFPs).

### **2. Membership**

The Task Group (TG) will comprise of the following members/co-opted members of the CCT WG-NCTh and experts:

Yoshiro Yamada (NMIJ, Chair)  
Mohamed Sadli (LNE-Cnam, Co-chair)  
Xiaofeng Lu (NIM)  
Klaus Anhalt (PTB)  
Andrew Todd (NRC)  
Boris Khlevnoy (VNIIOFI)  
Mikhail Matveyev (VNIIM)  
Jovan Bojkovski (Univ. Ljubljana, WG-CMC Chair)

### **3. Tasks**

The work scope of the TG is

- to propose a revised CLASSIFICATION OF SERVICES IN THERMOMETRY for The BIPM Key Comparison Database, in order to include thermodynamic temperature, and ITS-90 disseminated by high-temperature fixed points (HTFPs), and
- to create assessment rules and procedures to review CMCs of thermodynamic temperature realization and dissemination through three routes: 1) absolute primary thermometry 2) relative primary thermometry by HTFPs 3) conversion from ITS-90 to thermodynamic temperature applying CCT authorized correction function, and
- to modify the existing assessment rules and procedures for reviewing ITS-90 CMCs, in order to include realization and dissemination by HTFPs.

### **4. Time frame**

The draft revised protocol is to be completed by April 2017, and reported to the CCT WG-NCTh for discussion and agreement immediately before the next CCT meeting in May 2017.

Effective: 2 Sept. 2016