

Division of Measurement

Technical Committee for Temperature Measurement

~ From the fundamentals up to the frontier of thermometry ~

Mission statement

Temperature measurement is a fundamental metrology that has importance for not only science and industry but also for daily-life of human society. The Technical Committee for temperature measurement, steered by the experts in the field of thermometry in Japan, works on collecting and sharing information about the various measurement technologies. The TC also promotes educational activities.

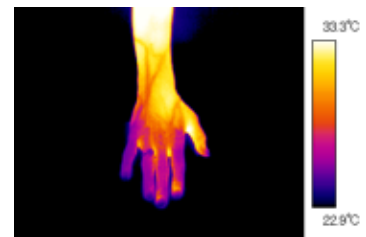
Field of interest

Innovative thermometry technologies which meet current needs and trends are our interests. Specifically the field of interest includes,

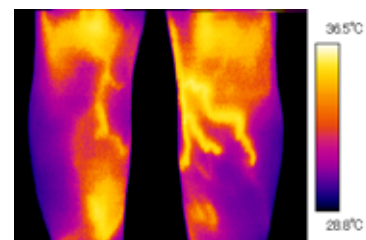
- Temperature standards, traceability, ultra-precise measurement.
- Industrial applications for steel processes, semiconductor processes, etc.
- Temperature monitoring targeting a vast scale, e.g. ocean, atmosphere, climate
- Medical and biological applications



High temperature fixed-point blackbody furnace using metal-carbon eutectics.
(Courtesy: NMIJ, AIST)



Thermal infrared images of the human body.
(Courtesy: Chino corp.)



Activities

Our TC, which proudly has a history of 42 years, has been contributing to the continuous growth of the thermometry technology. Recent activities are as follows.

- Organized Sessions (Every annual conference and sensing forum)
- J. of SICE Special Issue "Recent Advances of Temperature Measurement Technique in Extraordinary Environment" Vol.47 (2008)
- Events, such as lecture meetings and visits for study, are held a few times a year.

In 2009 May --- Visit at National Institute for Materials Science in Tsukuba

November(Plan) --- One-day seminar on practical temperature measurement

Key members

Chairperson : Masato Sugiura (Nippon Steel Corp.)

Vice-Chairperson : Kazuaki Yamazawa (NMIJ, AIST)

Secretary : Kazumasa Yamana (Chino Corp.)

URL : http://www.sice.or.jp/~temp_m