

Blackbody Users Group (BBUG) Meeting

Location: TEMPMEKO&ISHM 2010¹
Time and date: 09:30-12:00, 4th June 10

Sponsors: CCT-WG5, CCPR

Background

The first meeting of the BBUG was organized by Dong-Joo Shin (KRISS), Boris Khlevnoy (VNIIOFI) and Peter Sperfeld (PTB) and held at NEWRAD2008 in South Korea, Oct 2008.

BBUG is open to anyone who is interested in learning about, improving their use and understanding of high temperature furnaces/blackbodies.

Typical (though not exclusive) fields of work covered by BBUG are: Spectroradiometry (radiance and irradiance), radiation thermometry, research in the field of variable high-temperature blackbodies (HTBB) and high-temperature fixed-point blackbodies (HTFP).

The main interests concerning blackbodies and their operation are

- characterization and improvement of furnaces
- operational procedures and safety considerations
- temperature uniformity (especially for HTFPs) and emissivity
- use of different feedback controls
- blackbody design and new materials
- furnace/blackbody suppliers

Meeting at Tempmeko 2010

Graham Machin, NPL (UK), chair CCT-WG5 and Peter Sperfeld, PTB (Germany) are organising a half day BBUG workshop at Tempmeko 2010 (31 May – 4 June 2010, Slovenia). The workshop will be on the morning of Friday 4th June and is open to anyone interested in high temperature furnaces, blackbodies, fixed points or radiometry. Attendance is free but please register your intention to attend by emailing Graham Machin (graham.machin@npl.co.uk) and Peter Sperfeld (Peter.Sperfeld@ptb.de). The meeting will be strictly workshop format with short presentations of topics and open discussion. If you wish to give a presentation or raise a particular issue then please let the organisers know. We look forward to productive discussions with colleagues in Slovenia on 4th June.

Outline agenda

1. Opening of meeting – Peter Sperfeld/Graham Machin
2. Introduction of participants
3. Discussion topics
 - a. Role of refractive index in radiometry/radiation thermometry – discussion facilitators Peter Saunders (MSL)/Juergen Hartmann (PTB)/Howard Yoon (NIST)
 - b. As proposed by participants...
4. Participants problems – open
5. New developments in high temperature furnaces - open
6. Scope of BBUG and information exchange facilitation – led by Peter Sperfeld
7. Proposed workshop topics - open
8. Any other business, Date/venue of next meeting (Newrad 2011?)

¹ <http://www.tempmeko-ishm.org/>