

**BUREAU INTERNATIONAL DES POIDS ET MESURES**

Section I (X and  $\gamma$  rays, charged particles)  
Comité Consultatif pour les Rayonnements Ionisants  
20th Meeting (2011)

Wednesday 4 May to Friday 6 May 2011

The meeting will take place at the BIPM, Pavillon de Breteuil, Sèvres starting at 10:00.

Draft Agenda updated 19 April

1. Welcome by the Director of the BIPM, Dr Michael Kühne, and apologies from the President of the CCRI, Dr Kim Carneiro to the participants (Members, Observers and Guests)
2. Introduction by the Chairman, Dr Peter Sharpe, NPL
3. Appointment of the *Rapporteur*, Dr Carl Ross
4. Changes or additions to the agenda
5. Report of the Chairman on the [CCRI, June 2009](#) and matters arising from the Minutes of 19th Meeting of the CCRI(I), 2009 not otherwise on the agenda
6. CCRI Strategic planning – report and update following the 2010 special meeting [CCRI\(I\)/11-12](#)
7. President's report to the CGPM for discussion [CCRI\(I\)/11-11](#)
8. Current issues in dosimetry
  - 8.1 Physical constants -  $W/e$  and stopping powers [CCRI\(I\)/11-03](#), [CCRI\(I\)/11-04](#)
  - 8.2 Changes to the BIPM standards: x-rays, [Metrologia, 2009, 46\(5\), L21-L23](#); Cs-137, [Metrologia, 2009, 46\(5\), L24-L25](#)
  - 8.3 Formal approval for BIPM uncertainty budgets [CCRI\(I\)/11-16](#)
9. Feedback and recommendations from the Working Groups
  - 9.1 Key Comparisons (and Accelerator Dosimetry) Working Groups 3 May
10. Comparisons of dosimetry standards (X and  $\gamma$ -rays, charged particles)
  - 10.1 BIPM and CCRI key comparisons status
    - 10.1.1 BIPM.RI(I)-K1 [Co-60 air kerma], BIPM.RI(I)-K2 [low-energy x-rays], BIPM.RI(I)-K3 [medium energy x-rays], BIPM.RI(I)-K4 [Co-60 absorbed dose to water], BIPM.RI(I)-K5 [Cs-137 air kerma], BIPM.RI(I)-K6 [high-energy x-rays], BIPM.RI(I)-K7 [mammography], BIPM.RI(I)-K8 [Ir-192 brachytherapy]
    - 10.1.2 CCRI(I)-S2, high-dose Co-60 [Metrologia, 2011, 48, Tech. Suppl., 06009](#)
  - 10.2 Regional key and supplementary comparisons, AFRIMETS, APMP, COOMET, EURAMET, SIM
  - 10.3 Comparison reports for approval

11. Present (2009 to 2012) and future (2013 to 2016) Ionizing Radiation programmes at the BIPM
12. Development of national standards for photon dosimetry
  - 12.1 Air kerma
  - 12.2 Absorbed dose to water
  - 12.3 Brachytherapy dosimetry
  - 12.4 Radiation processing
  - 12.5 Radiometry and dosimetry in the energy range from 1 keV to 60 keV
  - 12.6 Radiation protection
13. Development of national standards for charged particle dosimetry
  - 13.1 Electron/beta dosimetry
  - 13.2 Protons
  - 13.3 Other charged particles
14. Future trends in dosimetry
15. Overall reports from member laboratories: NIST [CCRI\(I\)/11-01](#), VNIIM [CCRI\(I\)/11-05](#), CMI [CCRI\(I\)/11-06](#), NPL [CCRI\(I\)/11-07](#), NRC [CCRI\(I\)/11-08](#), NMIJ [CCRI\(I\)/11-09](#), NIM [CCRI\(I\)/11-10](#), PTB [CCRI\(I\)/11-13](#); ARPANSA [CCRI\(I\)/11-15](#)
16. CIPM MRA calibration and measurement capabilities
  - 16.1 Report from the CCRI RMO WG
  - 16.2 Traceability through the [BIPM](#)
  - 16.3 Report from the JCRB
  - 16.4 Reports from the RMOs : AFRIMETS, APMP, COOMET, EURAMET, SIM [CCRI\(I\)/11-02](#)
17. Reports from international members and observers
  - 17.1 ICRU
  - 17.2 IAEA [CCRI\(I\)/11-14](#)
  - 17.3 IOMP
  - 17.4 IRPA
18. Publications
  - 18.1 [NMI bibliographies](#)
19. CCRI(I) membership changes
20. Date of next meeting, April, May or June 2013
21. Concluding remarks

Notes:

The CCRI(I) dinner will be on Wednesday evening, 4 May at 19:00, probably at the restaurant “Le Congrès d’Auteuil” located at the Porte d’Auteuil. A coach will return you to local hotels. The cost will be about 45 € per person. A visit to the BIPM laboratories will be available on Thursday when the day’s session has ended.