

**BUREAU INTERNATIONAL DES POIDS ET MESURES**

Section I (X and  $\gamma$  rays, charged particles)  
Comité Consultatif pour les Rayonnements Ionisants  
19th Meeting (2009)

Wednesday 13 May to Friday 15 May 2009

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

## Draft Agenda

**17 April 2009**

1. Welcome by the Deputy Director of the BIPM, Dr Michael Kühne, and 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
4. Changes or additions to the agenda
5. Report of the [President](#) and the [CCRI, May 2007](#) and matters arising from the Minutes of 18th Meeting of the CCRI(I), 2007 not otherwise on the agenda
6. CCRI Strategic planning
7. Current issues in dosimetry
  - 7.1 Physical constants -  $W/e$  and stopping powers
  - 7.2 Changes to the BIPM standards
  - 7.3 Cavity volumes [CCRI\(I\)/09-19](#) (LNE-LNHB)
8. Feedback from the Working Groups
  - 8.1 Accelerator Dosimetry Working Group
  - 8.2 Brachytherapy Working Group – Workshop report
  - 8.3 Key Comparisons Working Group [CCRI\(I\)/09-01](#)
9. Comparisons of dosimetry standards (X and  $\gamma$ -rays, charged particles)
  - 9.1 BIPM and CCRI key comparisons status
    - 9.1.1 BIPM.RI(I)-K1, BIPM.RI(I)-K2, BIPM.RI(I)-K3, BIPM.RI(I)-K4, BIPM.RI(I)-K5, BIPM.RI(I)-K6, BIPM.RI(I)-K7 (proposed)
    - 9.1.2 CCRI(I)-K4, K6
    - 9.1.3 CCRI(I)-S2
  - 9.2 Comparison reports for approval
  - 9.3 Regional key and supplementary comparisons
    - 9.3.1 EURAMET.RI(I)-K1
    - 9.3.2 EURAMET.RI(I)-K4

- 9.4 Calibration of transfer standards
  - 9.4.1 Field-size effects in low-energy x-ray beams
- 10. Recent (2007 to 2009), present (2009 to 2012) and future (2013 to 2016) programme at the BIPM
- 11. Development of national standards for photon dosimetry  
NIST [CCRI\(I\)/09-07](#) (S. Seltzer); PTB [CCRI\(I\)/09-09](#), [CCRI\(I\)/09-10](#) (H.-M. Kramer); NRC [CCRI\(I\)/09-18](#) (C. Ross)
  - 11.1 Air kerma [CCRI\(I\)/09-15](#) , [CCRI\(I\)/09-17](#) (NIST)
  - 11.2 Absorbed dose to water [CCRI\(I\)/09-13](#) (NIST)
  - 11.3 Brachytherapy dosimetry [CCRI\(I\)/09-16](#) (NIST)
  - 11.4 Radiation processing
  - 11.5 Radiometry and dosimetry in the energy range from 1 keV to 60 keV
  - 11.6 Radiation protection
- 12. Development of national standards for charged particle dosimetry
  - 12.1 Electron/beta dosimetry [CCRI\(I\)/09-14](#) (NIST)
  - 12.2 Protons
  - 12.3 Other charged particles
- 13. Future trends in dosimetry
  - 13.1 Biological quantities for radiation dose [CCRI\(I\)/09-11](#) (H. Rabus)
  - 13.2 Coordinated projects
- 14. Other reports from member laboratories
- 15. Reports from the RMOs
  - 15.1 AFRIMETS [CCRI\(I\)/09-06](#)
  - 15.2 APMP [CCRI\(I\)/09-04](#)
  - 15.3 COOMET
  - 15.4 EURAMET [CCRI\(I\)/09-12](#)
  - 15.5 SIM [CCRI\(I\)/09-05](#)
- 16. CIPM MRA calibration and measurement capabilities
  - 16.1 Report from the CCRI RMO WG
  - 16.2 Report from the JCRB
- 17. Reports from international members and observers
  - 17.1 ICRU
  - 17.2 IAEA
  - 17.3 IOMP
  - 17.4 IRPA

## 18. Publications

18.1 *Metrologia* Vol 2 2009 Special issue on ionizing radiation dosimetry,  
<http://www.iop.org/EJ/toc/0026-1394/46/2> on-line

18.2 [NMI bibliographies](#)

## 19. CCRI(I) membership changes

19.1 Applications from the CIEMAT, [CCRI\(I\)/09-03](#) and ITN, [CCRI\(I\)/09-08](#)

20. 19. Date of next meeting, April, May or June 2011

21. Concluding remarks

Notes:

A Brachytherapy Workshop will be held on Tuesday 12 May at the BIPM. The programme has been sent to all nominated representatives.

The CCRI(I) dinner will be on Wednesday evening, 13 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.

As the CCRI celebrates its 50th anniversary this year, a number of guests have been invited to join us on the first day and to attend the dinner. Consequently, we are delighted to announce that a seminar will be presented at 17:00 on Wednesday afternoon 13 May, to conclude the first day. The topic is

***Nanodosimetry – a forward look for radiation quantities***

and the invited speaker is **Dr Hans Rabus** of the PTB.

A visit to the BIPM laboratories will be available on Thursday when the day’s session has ended.