Claudine THOMAS
Coordinator of the BIPM key comparison database cthomas@bipm.org

26 February 2003

#### KCDB REPORT AS ON 26 FEBRUARY 2003

The BIPM key comparison database Website is available at <a href="http://www.bipm.org/kcdb">http://www.bipm.org/kcdb</a>. We describe here the evolution of the KCDB since the 9th JCRB meeting.

# 1. Appendix C

Since the 9th JCRB meeting, only very few CMCs have been published:

- update of CMCs in Photometry and Radiometry for 13 countries (EUROMET), and
- update of CMCs in Length for 2 countries (EUROMET).

We are now preparing some 500 CMCs in Chemistry (all RMOs) which were examined in April 2002 but are not yet formally approved.

We are also expecting some 2000 CMCs in Ionizing Radiation (EUROMET) which have been on the way since more than one year, but are not yet even submitted for publication. In this regard, rather than waiting for the whole set of CMCs covering a Metrology area to be drawn up, we would strongly recommend that RMOs submit subsets of CMCs as soon as they are ready.

There are not yet any CMCs in Thermometry and in Time and Frequency included in the Appendix C database, but we are aware that files are being drawn up and circulating. It may thus possible that all Metrology areas be covered before the end of the transition period of the MRA.

### 2. Appendix B

#### Appendix B content

The number of CIPM and RMO key and supplementary comparisons recorded in the Appendix B database has slowly increased since the last JCRB meeting. On 26 February 2003, the Appendix B contained a total of 479 CIPM and RMO key and supplementary comparisons. It was also displaying the results of some 68 comparisons, 20 more than at the time of the 9th JCRB, and several BIPM key comparisons have had their results updated with new measurements.

Four EUROMET key comparisons have now had their results linked to those of the corresponding CC key comparison: one in the field of Mass and Related Quantities (High Pressure), two in the field of Chemistry (Gases) and one in the field of Electricity (Capacitance).

On 04 March 2003, we intend to launch onto the Web the results of an APMP key comparison (APMP.RI(II)-K2.Co-58) linked to those of a CIPM one (the ongoing BIPM.RI(II)-K2.Co-58) in the field of Ionizing Radiation (Radioactivity).

Globally speaking, we observe an intense activity around Appendix B, while this was not the case for Appendix C, at least over the last months.

## Appendix B design

Since April 2002, a considerable amount of effort has been devoted to the complete re-design of the Appendix B database structure and the development of a new Website for hosting the KCDB<sup>1</sup>. This new Website should be online on 04 March 2003.

# 3. Visits, publicity

#### Visits to the KCDB

The number of external connections to the KCDB Website is slowly increasing: we received a little more than 3000 visits in December 2002. As it is still very difficult to identify who is visiting the KCDB, we intend to provide an optional on-line registration form for visitors. Registered visitors would regularly receive the KCDB Newsletter (1st issue scheduled for September 2003).

### Publicising the KCDB

We try to publicise the KCDB as often as we can through, for example, the publication of papers in Newsletters, the presentation of posters at Congresses and the wide distribution of the KCDB leaflet.

We will demonstrated the KCDB live on the Web on the NIST stand at the conference PITTCOM'2003 in March 2003. We are grateful to NIST for their hospitality.

\_

<sup>&</sup>lt;sup>1</sup> We resolve these purely technical matters with the assistance of an external international company based in France (SQLI). Any modification in design, however, are handled by the BIPM.