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## Introduction

The International Committee for Weights and Measures (CIPM) has ten Consultative Committees.

- Consultative Committee for Electricity and Magnetism (CCEM)\*
- Consultative Committee for Photometry and Radiometry (CCPR)
- Consultative Committee for Thermometry (CCT)
- Consultative Committee for Length (CCL)
- Consultative Committee for Time and Frequency (CCTF)
- Consultative Committee for Ionizing Radiation (CCRI)
- Consultative Committee for Units (CCU)
- Consultative Committee for Mass and Related Quantities (CCM)
- Consultative Committee for Amount of Substance: metrology in chemistry (CCQM)
- Consultative Committee for Acoustics, Ultrasound and Vibration (CCAUV)

The broad remit of each Committee is to advise the CIPM on matters related to its particular field of metrology.

This Directory gives a brief description of the current activities of each of these Committees, lists the members and the names and addresses of the participants, details the membership and tasks of working groups. The structure of the working groups differs from committee to committee depending on the nature of the work to be done. For example, in some working groups the members are laboratories while in others members are named individuals; some working groups are long standing and relatively formal, such as the CCEM Working Group on Radiofrequency Quantities. Others are set up for a particular task, such as running an international comparison or preparing a monograph, and are dissolved as soon as the work is completed. This is normal and no attempt is made to impose rules on how working groups should be established other than to require that the work be done in the simplest and most efficient way. At the end of this Directory is a list of the acronyms and full names and addresses of institutes and organizations around the world that participate in the work of the Consultative Committees.

A task now common to all the Consultative Committees, except the CCU, is that of identifying and carrying out the key comparisons of national measurement standards called for in the Mutual Recognition Arrangement (MRA) signed by directors of national metrology institutes in October 1999. This is a task the Consultative Committees carry out in collaboration with the BIPM. The CCU is different in that its main tasks are the surveillance of the SI and periodic revision of the SI brochure. More information on these comparisons can be obtained from the Executive Secretary of each Consultative Committee at the BIPM and a full list is maintained in the BIPM key comparison database.

The purpose of this Directory is to make available a concise list of contact points for each Consultative Committee over the whole range of its activities and to identify the BIPM contact in each field. The printed version of this Directory is revised at the beginning of each year and an up to date version is maintained on the BIPM home page: <http://www.bipm.org> which also contains the text of the MRA and the BIPM key comparison database.

A.J. WALLARD  
Director, BIPM

March 2003

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\* Here and elsewhere in this document the acronyms come from the French names of the Committees.

## **Criteria for membership of the Consultative Committees of the CIPM\***

Membership of Consultative Committees is decided by the CIPM in consultation with the Presidents of the Consultative Committees and the Director of the BIPM.

Laboratories invited to be members of a Consultative Committee should be those already recognized internationally as most expert in the field. This normally requires that they:

- be national laboratories charged with establishing national standards in the field,
- be active in research and have a record of publications in research journals of international repute,
- have demonstrated competence by a record of participation on international comparisons organized either by the Consultative Committee, the BIPM or a regional metrology organization.

In addition to laboratory members, Consultative Committees may include as members:

- named individuals whose knowledge and competence in the field are such that they can provide valuable assistance to the Consultative Committee even though they do not come from a laboratory meeting the requirements for membership,
- international unions or other international organizations whose advice or expertise would be helpful to the Consultative Committee.

The Presidents of Consultative Committees may from time to time invite observers to meetings, including representatives of appropriate laboratories that are not yet members.

In general, the national metrology institute of each Member State of the Convention du Mètre wishing to participate might expect to be a member or an observer of at least one Consultative Committee.

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\* Adopted by the CIPM at its 85th meeting in September 1996 (*BIPM Proc. Verb. Com. Int. Poids et Mesures*, 1996, **64**, 123-124).

**Meetings of the Consultative Committees in 2003  
(at the BIPM unless otherwise stated)**

CCQM-----	10 to 11 April 2003
CCU-----	17 to 18 April 2003
CCT-----	14 to 16 May 2003
CCRI Section I-----	21 to 23 May 2003
CCRI Section III-----	26 to 27 May 2003
CCRI Section II-----	28 to 30 May 2003
CCRI-----	30 May 2003
CCPR-----	17 to 19 June 2003
CCL-----	8 to 11 September 2003
CIPM-----	9 to 10 October 2003
CCEM Working Groups-----	3 to 7 November 2003

For the general diary of the BIPM, please see the BIPM web page at <http://www.bipm.org>.

**Consultative Committee for Electricity and Magnetism (CCEM)****Created in 1927**

*Present activities concern practical realizations of the SI volt, ohm, ampere and watt, laboratory reference standards of the volt and the ohm based upon the Josephson and quantum-Hall effects, capacitance standards and ac/dc measurements, RF and microwave standards and advice to the CIPM on matters related to electrical standards.*

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Created in 1952

*Present activities concern matters related to the definition and realization of the metre, practical length and angle measurement and advice to the CIPM in the field of length metrology.*

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Created in 1998

*In addition to its formal work in the organisation of key comparisons in acoustics (airborne and underwater), in ultrasound and in vibration measurement, the CCAUV acts as the focus for this diverse community, seeking to develop common aims and increased collaboration between national metrology institutes and appropriate designated organisations in Member Countries of the Metre Convention.*

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<b>NML CSIRO</b> National Measurement Laboratory CSIRO Bradfield Road, West Lindfield PO Box 218	<b>PTB</b> Physikalisch-Technische Bundesanstalt Bundesallee 100 D-38116 Braunschweig Germany
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- SAMTS** State Agency for Metrology and Technical  
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- SMU** Slovak Institute of Metrology/Slovenský  
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- SPRING Singapore** Standards, Productivity and  
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- SRC** Space Research Centre of Polish Academy of  
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- URSI** International Union of Radio Science  
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