

Directory of Consultative Committees created by the CIPM



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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.

The CIPM has asked all Consultative Committees to establish working groups to deal with the relevant operational aspects of the CIPM MRA. The CIPM also asked Consultative Committees to establish working groups on strategy. More details can be found in the document “Rules of procedure for the Consultative Committees (CCs) created by the CIPM, CC working groups and CC workshop” at <http://www.bipm.org>.

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 CIPM MRA and the BIPM key comparison database.

BIPM

December 2009

* 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

On :

www.bipm.org/en/committees/cc/cc_criteria

And note the special case of the Consultative Committee for Units at:

www.bipm.org/en/committees/cc/ccu_criteria

In general, the national metrology institute of each Member State of the Metre Convention wishing to participate can expect to be a member or, if they do not fulfil the criteria, an observer of at least one Consultative Committee.

Applications for Membership or Observer status should be sent to the Director of the BIPM or to the President of the Consultative Committee.

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

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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- Chairpersons of the Working Groups on low Frequency Quantities and on Radiofrequency Quantities
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*Present activities concern measurement standards for photometric and radiometric quantities,
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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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Consultative Committee for Time and Frequency (CCTF)

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Present activities concern matters related to the definition and realization of the second, establishment and diffusion of International Atomic Time (TAI) and Coordinated Universal Time (UTC) and advice to the CIPM on matters related to time and time scales.

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Present activities concern matters related to the definitions of quantities and units, standards and comparisons for x-ray, γ -ray, charged particle and neutron dosimetry, radioactivity measurement and the International Reference System for radionuclides (SIR), and advice to the CIPM on matters related to ionizing radiation standards.

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*Present activities concern matters related to the development of the International System of Units (SI),
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Consultative Committee for Mass and Related Quantities (CCM)

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Consultative Committee for Amount of Substance: metrology in chemistry (CCQM)**Created in 1993**

Present activities concern primary methods for measuring amount of substance and international comparisons, establishment of international equivalence between national laboratories and advice to the CIPM on matters concerned with metrology in chemistry.

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Consultative Committee for Acoustics, Ultrasound and Vibration (CCAUV)

Created in 1998

In addition to its formal work in the organization 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 organizations in Member Countries of the Metre Convention.

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Acronyms and Addresses

ANSTO Australian Nuclear Science &
Technology Organization
Organization Building 16
Private Mail Bag 1
2234 Menai
Australia

ARPANSA Australian Radiation Protection and
Nuclear Safety Agency
Lower Plenty Road
Yallambie
3085 Victoria
Australia

BARC Bhabha Atomic Research Centre
Trombay
400 085 Bombay
India

BAM Federal Institute for Materials Research
and Testing/Bundesanstalt für
Materialforschung und -prüfung
Unter den Eichen 87
D-12205 Berlin
Germany

BEV Bundesamt für Eich- und
Vermessungswesen
Arltgasse 35
A-1160 Vienna
Austria

BIM Bulgarian Institute of Metrology
52B G.M. Dimitrov Blvd
1125 Sofia
Bulgaria

CEM Centro Español de Metrología
Calle del Alfar nº 2
28760 Tres Cantos - Madrid
Spain

CENAM Centro Nacional de Metrología
km 4,5 Carretera a Los Cués
Municipio El Marqués
76241 Querétaro
Mexico

CIAE China Institute of Atomic Energy
P.O. Box 275 (20)
102413 Beijing
China

CIE Commission internationale de l'éclairage
Central Bureau
Kegelgasse 27
A-1030 Vienne
Austria

CIEMAT Centro de Investigaciones
Energéticas, Medioambientales y
Tecnológicas
Ministerio de Industria y Energía
Avenida Complutense, 22
28040 Madrid
Spain

CMI Czech Metrology Institute
102 00 Praha
Radiova 3
Prague
Czech Republic

**CODATA Task Group on Fundamental
Constants** Committee on Data for Science
and Technology, Task Group on
Fundamental Constants

DFM Danish Fundamental Metrology Ltd.
Matematiktorvet
Building 307
DK-2800 Lyngby
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DPLA Danish Primary Laboratory for Acoustics
Brüel & Kjaer A/S
Shodsborgvej 307
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ENEA-INMRI Ente per le Nuove Tecnologie,
l'Energia e l'Ambiente -Istituto Nazionale di
Metrologia delle Radiazioni Ionizzanti
via Anguillarese km 1,300
00060 S. M. di Galeria
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GUM Central Office of Measures/Główny
Urząd Miar
P.O. Box P-10
PL 00-950 Warsaw
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IAEA International Atomic Energy Agency
Wagramerstrasse, 5
P.O. Box 100
A-1400 Vienna
Austria

IAU International Astronomical Union
IAU Secretariat
98 bis, Boulevard Arago
75014 Paris
France

ICRU International Commission on Radiation
Units and Measurements
7910 Woodmont Avenue
Suite 800
MD 20814-3095 Bethesda
United States

IEC International Electrotechnical Commission
3, rue de Varembe
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IFA-CSIC Instituto de Física Aplicada-Consejo
Superior de Investigaciones Cientificas
Calle Serrano, 144
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IFCC International Federation of Clinical
Chemistry and Laboratory Medicine

IFIN-HH "Horia Hulubei" National Institute of
Research and Development for Physics and
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IGS International GNSS Service
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JPL MS 238-540
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IIK Institut für Isotopenforschung und
Kernphysik
"Radiuminstitut"
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Boltzmannngasse 3
A-1090 Vienna
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INMETRO National Institute of Metrology,
Standardization and Industrial Quality
Santa Alexandrina St, 416
Rio Comprido
20261-232 Rio de Janeiro
Brazil

INPL National Physical Laboratory of Israel
Danciger "A" Bldg
Hebrew University, Givat-Ram
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INTI Instituto Nacional de Tecnología Industrial
Parque Tecnológico Miguelete
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I.N.R.I.M Istituto Nazionale di Ricerca
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IOMP International Organization for Medical
Physics
<http://www.iomp.org/index.html>

IPQ Instituto Português da Qualidade
Laboratório Central de Metrologia
Rua António Gião, 2
2829-513 Caparica
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IRA Institut de Radiophysique Appliquée
Centre Universitaire
CH-1015 Lausanne
Switzerland

IRI Interfaculty Reactor Institute
Department of Radiation Technology
Mekelweg 15
2629 JB Delft
The Netherlands

IRMM Institute for Reference Materials and
Measurements
European Commission - Directorate
General JRC
Retieseweg
B-2440 Geel
Belgium

IRPA International Radiation Protection
Association
<http://www.irpa.net/>

ISO International Organization for
Standardization
Central Secretariat
1, rue de Varembe
Case postale 56
CH-1211 Geneva
Switzerland

ISO REMCO International Organization for
Standardization, Committee on Reference
Materials

ITU International Telecommunication Union
Radiocommunication Bureau
Place des Nations
CH-1211 Genève 20
Switzerland

IUGG International Union of Geodesy and
Geophysics

IUPAC International Union of Pure and Applied
Chemistry
P.O. Box 13757
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NC 27709-3757
United States

IUPAP International Union of Pure and Applied
Physics

JILA Joint Institute for Laboratory Astrophysics
80303-0440 Colorado, Boulder,
United States

JV Justervesenet
Norwegian Metrology and Accreditation
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Fetveien 99
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KRISS Korea Research Institute of Standards
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LNE Conservatoire national des arts et
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LNE-LNHB Commissariat à l'énergie
atomique/Laboratoire National Henri
Becquerel
DIMRI - CEA Saclay
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LNE-SYRTE Observatoire de Paris/Systèmes
de Référence Temps-Espace
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MKEH Hungarian Trade Licensing Office
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MSL Measurement Standards Laboratory of
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PO Box 31 310 Lower Hutt
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NICT National Institute of Information and
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NPLI National Physical Laboratory of India
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India

NRC-INMS National Research Council of
Canada
Institute for National Measurement
Standards
Montreal Road
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Canada

OIML International Organization of Legal
Metrology

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58, rue de l'Observatoire
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ORB Observatoire Royal de Belgique
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PTB Physikalisch-Technische Bundesanstalt
Bundesallee 100
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RC Radioisotope Centre POLATOM
Metrological Laboratory of Radioactive
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ROA Real Instituto y Observatorio de la Armada
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SSI Swedish Radiation Protection Authority

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STUK Radiation and Nuclear Safety Authority

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UME National Metrology Institute of Turkey

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URSI International Union of Radio Science

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USNO U.S. Naval Observatory

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