

## TC 1: Terminology

*BIML contact: Willem Kool*

### Secretariat

Dr. Jerzy Borzysinski  
Central Office of Measures (GUM)  
POLAND  
E-Mail: int.dis.met@gum.gov.pl

### P-Members (17)

AUSTRALIA	BELARUS	BRAZIL
BULGARIA	CUBA	CZECH REPUBLIC
FRANCE	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	POLAND
ROMANIA	RUSSIAN FEDERATION	SERBIA
SLOVENIA	UNITED STATES	

### O-Members (12)

AUSTRIA	DENMARK	EGYPT
FINLAND	INDONESIA	IRELAND
NORWAY	P.R. CHINA	SLOVAKIA
SOUTH AFRICA	SPAIN	SWITZERLAND

### Liaisons

IAEA - Agence Internationale de l'Energie Atomique	BIPM - Convention du Mètre
ISO - Organisation Internationale de Normalisation	IEC - Commission Electrotechnique Internationale
CECIP - Comité Européen des Fabricants d'Instruments de Pesage	IUPAP - International Union of Pure and Applied Physics
IUPAC - International Union of Pure and Applied Chemistry	IFCC - International Federation of Clinical Chemistry

### Publications

V 1 - 2000 : International vocabulary of terms in legal metrology (VIML) (bilingual French-English) /  
Vocabulaire international des termes de métrologie légale (VIML) (bilingue français-anglais) - Confirmed  
01/01/2000 - Under revision

### Projects

p 2: Revision of V1 (VIML), status: 3 CD

## TC 2: Units of measurement

*BIML contact: Willem Kool*

### Secretariat

Dr. Richard Goblirsch  
BEV, Bundesamt für Eich- und Vermessungswesen  
AUSTRIA  
E-Mail: richard.goblirsch@bev.gv.at

### P-Members (19)

AUSTRALIA	AUSTRIA	BRAZIL
BULGARIA	CUBA	CZECH REPUBLIC
FRANCE	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	P.R. CHINA
POLAND	ROMANIA	RUSSIAN FEDERATION
SLOVENIA	SWITZERLAND	TURKEY
UNITED STATES		

### O-Members (11)

DENMARK	EGYPT	FINLAND
INDONESIA	ITALY	NORWAY
SERBIA	SLOVAKIA	SOUTH AFRICA
SPAIN	UNITED KINGDOM	

### Liaisons

IAEA - Agence Internationale de l'Energie Atomique	BIPM - Convention du Mètre, CCU
IEC - Commission Electrotechnique Internationale	ISO - Organisation Internationale de Normalisation, TC 12
CECIP - Comité Européen des Fabricants d'Instruments de Pesage	IUPAP - International Union of Pure and Applied Physics
IUPAC - International Union of Pure and Applied Chemistry	

### Publications

D 2 - 2007 : Legal units of measurement - Confirmed 04/12/2007

### Projects

## TC 3: Metrological control

*BIML contact: Willem Kool*

### Secretariat

Dr. Charles D. Ehrlich  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [charles.ehrlich@nist.gov](mailto:charles.ehrlich@nist.gov)  
Mr. Kenneth Butcher  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [kenneth.butcher@nist.gov](mailto:kenneth.butcher@nist.gov)

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [ambler.thompson@nist.gov](mailto:ambler.thompson@nist.gov)

### P-Members (25)

AUSTRALIA	AUSTRIA	BELGIUM
BULGARIA	CANADA	CUBA
CZECH REPUBLIC	FRANCE	GERMANY
JAPAN	KOREA (R.)	NETHERLANDS
NORWAY	P.R. CHINA	POLAND
ROMANIA	RUSSIAN FEDERATION	SERBIA
SLOVENIA	SOUTH AFRICA	SWEDEN
SWITZERLAND	TURKEY	UNITED KINGDOM
UNITED STATES		

### O-Members (12)

BRAZIL	DENMARK	EGYPT
FINLAND	INDONESIA	IRELAND
ISRAEL	ITALY	SLOVAKIA
SPAIN	SRI LANKA	TANZANIA

### Liaisons

IEC - Commission Electrotechnique Internationale

ISO - Organisation Internationale de Normalisation

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### Publications

R 34 - 1979 : Accuracy classes of measuring instruments - Confirmed 31/10/1974 - Under revision  
R 42 - 1981 : Metal stamps for verification officers - Confirmed 31/10/1977 - Under revision  
D 3 - 1979 : Legal qualification of measuring instruments - Confirmed 01/01/1979 - Under revision  
G 1 - 104 - 2009 : Evaluation of measurement data - An introduction to the "Guide to the expression of uncertainty in measurement" and related documents - Confirmed 23/10/2009

### Projects

p 1: Revision of R 34: Accuracy classes of measuring instruments., To be incorporated into combined revision of D 19 and D 20 (TC 3/SC 1)., status: no document yet  
p 2: Revision D 3: Legal qualification of measuring instruments., To be incorporated into combined revision of D 19 and D 20 (TC 3/SC 1)., status: no document yet  
p 5: Revision R 42: Metal stamps for verification officers., To be incorporated into combined revision of D 19 and D 20 (TC 3/SC 1)., status: no document yet  
p 6: Revision of D 1, status: 1 CD  
*Project leader: Prof.Manfred Kochsiek, GERMANY*

## TC 3/SC 1: Pattern Approval and verification

*BIML contact: Willem Kool*

### Secretariat

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [ambler.thompson@nist.gov](mailto:ambler.thompson@nist.gov)

### P-Members (18)

AUSTRALIA	BULGARIA	CZECH REPUBLIC
DENMARK	FRANCE	GERMANY
JAPAN	NETHERLANDS	NEW ZEALAND
P.R. CHINA	POLAND	ROMANIA
RUSSIAN FEDERATION	SERBIA	SOUTH AFRICA
TURKEY	UNITED KINGDOM	UNITED STATES

### O-Members (9)

AUSTRIA	BELGIUM	BRAZIL
CANADA	FINLAND	SLOVAKIA
SLOVENIA	SPAIN	SRI LANKA

### Liaisons

ISO - Organisation Internationale de Normalisation      IEC - Commission Electrotechnique Internationale  
CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### Publications

D 13 - 1986 : Guidelines for bi- or multilateral arrangements on the recognition of: test results - pattern approvals - verifications - Confirmed 01/01/1986 - Under revision  
D 19 - 1988 : Pattern evaluation and pattern approval - Confirmed 01/01/1988 - Under revision  
D 20 - 1988 : Initial and subsequent verification of measuring instruments and processes - Confirmed 01/01/1988 - Under revision  
D 27 - 2001 : Initial verification of measuring instruments using the manufacturer's quality management system - Confirmed 01/01/2001

### Projects

p 1: Revision D 19: Pattern evaluation and pattern approval., Revision combined with D 20 incorporating elements of R 34, R 42 and D 3., status: no document yet  
p 2: Revision D 20: Initial and subsequent verification of measuring instruments and processes., Revision combined with D 19 incorporating elements of R 34 and D 3., status: no document yet  
p 4: Revision D 13: Guidelines for bi- or multilateral arrangements on the recognition of: test results - pattern approvals - verifications., Postponed pending progress of p7 + p8 of TC3/SC5, status: no document yet

## TC 3/SC 2: Metrological supervision

*BIML contact: Willem Kool*

### Secretariat

Mr. Pavel Klenovský  
CMI, Czech Metrology Institute  
CZECH REPUBLIC  
E-Mail: pklenovsky@cmi.cz

### P-Members (18)

AUSTRALIA	BULGARIA	CZECH REPUBLIC
FRANCE	GERMANY	JAPAN
NETHERLANDS	P.R. CHINA	POLAND
ROMANIA	RUSSIAN FEDERATION	SERBIA
SLOVAKIA	SLOVENIA	SOUTH AFRICA
TURKEY	UNITED KINGDOM	UNITED STATES

### O-Members (8)

AUSTRIA	BELGIUM	BRAZIL
CANADA	DENMARK	FINLAND
SPAIN	SRI LANKA	

### Liaisons

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### Publications

D 9 - 2004 : Principles of metrological supervision - Confirmed 26/10/2004  
D 12 - 1986 : Fields of use of measuring instruments subject to verification - Confirmed 01/01/1986  
D 16 - 2011 : Principles of assurance of metrological control - Confirmed 18/07/2011

### Projects

## TC 3/SC 3: Reference materials

*BIML contact: Luis Mussio*

### Secretariat

Dr. Elena Osintseva  
UNIIM, Ural Research Institute of metrology  
RUSSIAN FEDERATION  
E-Mail: [ev\\_osinceva@mail.ru](mailto:ev_osinceva@mail.ru)

### P-Members (13)

AUSTRALIA	BRAZIL	CZECH REPUBLIC
JAPAN	KAZAKHSTAN	NETHERLANDS
P.R. CHINA	POLAND	ROMANIA
RUSSIAN FEDERATION	SLOVENIA	TURKEY
UNITED STATES		

### O-Members (9)

BELGIUM	BULGARIA	DENMARK
FINLAND	GERMANY	SERBIA
SLOVAKIA	SPAIN	SRI LANKA

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 158	CEN - Comité Européen de Normalisation
IUPAC - International Union of Pure and Applied Chemistry	IFCC - International Federation of Clinical Chemistry

### Publications

D 18 - 2008 : The use of certified reference materials in fields covered by metrological control exercised by national services of legal metrology. Basic principles - Confirmed 07/01/2009

### Projects

## TC 3/SC 4: Application of statistical methods

*BIML contact: Willem Kool*

### Secretariat

Dr. Peter Ulbig  
PTB, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: Peter.Ulbig@ptb.de

### P-Members (15)

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	GERMANY	JAPAN
NETHERLANDS	NORWAY	P.R. CHINA
POLAND	ROMANIA	RUSSIAN FEDERATION
SPAIN	UNITED KINGDOM	UNITED STATES

### O-Members (15)

BULGARIA	CANADA	CZECH REPUBLIC
DENMARK	FINLAND	IRELAND
ITALY	NEW ZEALAND	SAUDI ARABIA
SERBIA	SLOVAKIA	SLOVENIA
SOUTH AFRICA	SRI LANKA	TUNISIA

### Liaisons

ISO - Organisation Internationale de Normalisation

IWA - International Water Association

MARCOGAZ - Technical Association of the European Natural Gas Industry

AQUA - Association Européenne des fabricants de compteurs d'eau

EUREAU - European union of national associations of water suppliers and waste water services

CITEF - Association des Fabricants Européens de Compteurs d'Electricité

EURELECTRIC/UNIPED - Union of the Electricity Industry

FACOGAZ - Association des Fabricants Européens de Compteurs de Gaz

### Publications

### Projects

p 1: Surveillance of utility meters in service on the basis of sampling inspections, status: 3 CD

## TC 3/SC 5: Conformity assessment

*BIML contact: Luis Mussio*

### Secretariat

Dr. Charles D. Ehrlich  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: charles.ehrlich@nist.gov

### P-Members (26)

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	BULGARIA	CANADA
CUBA	CZECH REPUBLIC	DENMARK
FRANCE	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	NORWAY
P.R. CHINA	POLAND	ROMANIA
RUSSIAN FEDERATION	SOUTH AFRICA	SPAIN
SWEDEN	SWITZERLAND	TURKEY
UNITED KINGDOM	UNITED STATES	

### O-Members (7)

FINLAND	INDONESIA	IRAN
ISRAEL	SERBIA	SLOVAKIA
SLOVENIA		

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 176/SC 1	IEC - Commission Electrotechnique Internationale
ILAC - International Laboratory Accreditation	IAF - International Accreditation Forum
CECOD - Comité de Fabricants Européens de Systèmes de Mesurage du Pétrole	FACOGAZ - Association des Fabricants Européens de Compteurs de Gaz
CECIP - Comité Européen des Fabricants d'Instruments de Pesage	

### Publications

- D 29 - 2008 : Guide for the application of ISO/IEC Guide 65 to assessment of measuring instrument certification bodies in legal metrology - Confirmed 26/11/2008
- D 30 - 2008 : Guide for the application of ISO/IEC 17025 to the assessment of Testing Laboratories involved in legal metrology - Confirmed 01/12/2008 - Under revision

### Projects

- p 2: Expression of uncertainty in measurement in legal metrology applications, status: 1 CD
- p 5: Guide for the application of ISO/IEC Guide 65 to the assessment of certification bodies in legal metrology, status: no document yet
- p 7: Revision of B3 OIML Certificate System for Measuring Instruments, status: 2 CD
- p 8: Revision of B 10-1 Framework for a Mutual Acceptance Arrangement on OIML Type Evaluations (MAA), status: 1 CD
- p 10: Guide for the application of ISO/IEC 17021 to the assessment of quality system certification bodies in the field of legal metrology, status: no document yet
- p 11: Guide for the application of ISO 9001 to legal metrology controls, status: no document yet
- p 12: Revision of OIML D 30, status: no document yet



## TC 4: Measurement standards and calibration and verification devices

*BIML contact: Willem Kool*

### Secretariat

Mr. Ivan Mikulecky  
UNMS, Slovak Office of Standards, Metrology and  
Testing  
SLOVAKIA  
E-Mail: mikulecky@normoff.gov.sk

### P-Members (19)

AUSTRALIA	AUSTRIA	BRAZIL
BULGARIA	CANADA	CUBA
CZECH REPUBLIC	FRANCE	GERMANY
JAPAN	KOREA (R.)	NORWAY
POLAND	ROMANIA	RUSSIAN FEDERATION
SAUDI ARABIA	SLOVAKIA	TURKEY
UNITED STATES		

### O-Members (12)

DENMARK	EGYPT	FINLAND
INDONESIA	IRELAND	NETHERLANDS
P.R. CHINA	SERBIA	SLOVENIA
SOUTH AFRICA	SPAIN	TANZANIA

### Liaisons

BIPM - Convention du Mètre	ISO - Organisation Internationale de Normalisation
IEC - Commission Electrotechnique Internationale	IFCC - International Federation of Clinical Chemistry
CIE - Commission Internationale de l'Eclairage	

### Publications

D 5 - 1982 : Principles for the establishment of hierarchy schemes for measuring instruments - Confirmed 01/01/1982 - Under revision  
D 8 - 2004 : Measurement standards. Choice, recognition, use, conservation and documentation - Confirmed 15/05/2004  
D 10 - 2007 : ILAC-G24/OIML D 10: Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories - Confirmed 31/05/2007  
D 23 - 1993 : Principles for metrological control of equipment used for verification - Confirmed 01/01/1993 - Under revision

### Projects

p 1: Principles for the selection and expression of metrological characteristics of standards and devices used for calibration and verification, status: 1 CD  
p 2: Revision D 5: Principles for the establishment of hierarchy schemes for measuring instruments, status: 2 CD  
p 6: Revision D 23: Principles for metrological control of equipment used for verification, Postponed, waiting for TC 3/SC 5 project p2, status: no document yet

## TC 5: General requirements for measuring instruments

*BIML contact: Willem Kool*

### Secretariat

Mr. Roman Flegar  
MIRS, Metrology Institute of the Republic of Slovenia  
SLOVENIA  
E-Mail: roman.flegar@gov.si

### P-Members (19)

AUSTRALIA	BELGIUM	CUBA
CZECH REPUBLIC	DENMARK	FINLAND
FRANCE	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	ROMANIA
RUSSIAN FEDERATION	SLOVAKIA	SLOVENIA
SWEDEN	TURKEY	UNITED KINGDOM
UNITED STATES		

### O-Members (14)

BELARUS	BRAZIL	BULGARIA
CANADA	EGYPT	INDONESIA
IRELAND	ITALY	P.R. CHINA
POLAND	SERBIA	SPAIN
SWITZERLAND	TANZANIA	

### Liaisons

IEC - Commission Electrotechnique Internationale

CECOD - Comité de Fabricants Européens de Systèmes  
de Mesurage du Pétrole

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### Publications

### Projects

## TC 5/SC 1: Environmental conditions

*BIML contact: Willem Kool*

### Secretariat

Mr. George Teunisse  
Verispect B.V.  
NETHERLANDS  
E-Mail: gteunisse@verispect.nl

### P-Members (20)

AUSTRALIA	BELGIUM	CANADA
CUBA	DENMARK	FINLAND
FRANCE	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	ROMANIA
RUSSIAN FEDERATION	SLOVAKIA	SLOVENIA
SOUTH AFRICA	SWITZERLAND	TURKEY
UNITED KINGDOM	UNITED STATES	

### O-Members (13)

AUSTRIA	BELARUS	BRAZIL
BULGARIA	CZECH REPUBLIC	EGYPT
INDONESIA	IRELAND	ITALY
P.R. CHINA	POLAND	SERBIA
SPAIN		

### Liaisons

IEC - Commission Electrotechnique Internationale	ISO - Organisation Internationale de Normalisation
CECOD - Comité de Fabricants Européens de Systèmes de Mesurage du Pétrole	CITEF - Association des Fabricants Européens de Compteurs d'Electricité
CECIP - Comité Européen des Fabricants d'Instruments de Pesage	

### Publications

D 11 - 2004 : General requirements for electronic measuring instruments - Confirmed 31/10/2008 - Under revision

### Projects

p 1: Revision of D 11 "General requirements for electronic measuring instruments  
Note: during its 43rd Meeting, the CIML decided to change the name and the scope of TC 5/SC 1 and therefore, to extend the scope of D 11., status: 1 CD

## TC 5/SC 2: Software

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Ulrich Grottke  
PTB, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: ulrich.grottke@ptb.de

### P-Members (21)

AUSTRALIA	BELARUS	BELGIUM
BRAZIL	CANADA	CUBA
CZECH REPUBLIC	DENMARK	FINLAND
FRANCE	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	P.R. CHINA
ROMANIA	RUSSIAN FEDERATION	SLOVAKIA
SLOVENIA	UNITED KINGDOM	UNITED STATES

### O-Members (14)

AUSTRIA	BULGARIA	EGYPT
INDONESIA	IRELAND	ITALY
MEXICO	NEW ZEALAND	NORWAY
POLAND	SERBIA	SOUTH AFRICA
SPAIN	SWITZERLAND	

### Liaisons

IEC - Commission Electrotechnique Internationale

CECOD - Comité de Fabricants Européens de Systèmes  
de Mesurage du Pétrole

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### Publications

D 31 - 2008 : General requirements for software controlled measuring instruments

### Projects

p 2: New project "Methods and means for Verification", status: no document yet

## TC 6: Prepackaged products

*BIML contact: Willem Kool*

### Secretariat

Mr. Jaco Marneweck

NRCS, National Regulator for Compulsory  
Specifications, Legal Metrology Department  
SOUTH AFRICA

E-Mail: marnewj@nrccs.org.za

### P-Members (27)

AUSTRALIA

BRAZIL

CROATIA

DENMARK

JAPAN

NEW ZEALAND

POLAND

SOUTH AFRICA

TURKEY

AUSTRIA

BULGARIA

CUBA

FRANCE

KOREA (R.)

NORWAY

RUSSIAN FEDERATION

SPAIN

UNITED KINGDOM

BELGIUM

CANADA

CZECH REPUBLIC

GERMANY

NETHERLANDS

P.R. CHINA

SLOVAKIA

SWITZERLAND

UNITED STATES

### O-Members (11)

CYPRUS

INDONESIA

ROMANIA

SWEDEN

EGYPT

IRELAND

SERBIA

TANZANIA

FINLAND

ITALY

SLOVENIA

### Liaisons

FEA - Fédération Européenne des Aérosols

ISO - Organisation Internationale de Normalisation

CEN - Comité Européen de Normalisation

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

Codex Alimentarius

IEC - Commission Electrotechnique Internationale

FIVS - Federation Internationale des Vins et Spiritueux

### Publications

R 79 - 1997 : Labeling requirements for prepackaged products - Confirmed 31/10/1997 - Under revision

R 87 - 2004 : Quantity of product in prepackages - Confirmed 31/10/2003 - Under revision

R 87 - erratum - 2008 : Erratum (2008.06.16) to R 87 (Edition 2004) Quantity of product in prepackages -  
Confirmed 31/10/2007 - Under revision

### Projects

p 1: OIML certificate for prepackaged goods, status: 3 CD

p 2: Revision of R 79 "Labeling requirements for prepackaged products", status: 2 CD

p 3: Revision R 87 "Quantity of product in Prepackages", status: no document yet

p 4: Methods for determining the quantity of product in prepackages, status: no document yet

## **TC 7: Measuring instruments for length and associated quantities**

*BIML contact: Ian Dunmill*

### **Secretariat**

Mr. John Goulding  
NMO, NMO Certification Services  
UNITED KINGDOM  
E-Mail: john.goulding@nmo.gov.uk

### **P-Members (18)**

AUSTRALIA	BELGIUM	CUBA
CZECH REPUBLIC	FINLAND	FRANCE
GERMANY	JAPAN	KOREA (R.)
POLAND	ROMANIA	RUSSIAN FEDERATION
SAUDI ARABIA	SERBIA	SLOVAKIA
SOUTH AFRICA	UNITED KINGDOM	UNITED STATES

### **O-Members (17)**

AUSTRIA	BELARUS	BRAZIL
BULGARIA	DENMARK	EGYPT
HUNGARY	INDONESIA	IRAN
IRELAND	NETHERLANDS	NORWAY
P.R. CHINA	SLOVENIA	SPAIN
SWITZERLAND	TANZANIA	

### **Liaisons**

ISO - Organisation Internationale de Normalisation, TC 172

### **Publications**

R 35 - 1 - 2007 : Material measures of length for general use. Part 1: Metrological and technical requirements - Confirmed 31/10/2007

### **Projects**

p 2: Test methods to revised R 35-1, status: 2 CD  
p 3: Test Report Format to revised R 35-1, status: 2 CD

## TC 7/SC 1: Measuring instruments for length

*BIML contact: Ian Dunmill*

### Secretariat

Mr. K.V. Cherkirda

D.I. Mendeleyev Institute for Metrology (VNIIM)

RUSSIAN FEDERATION

E-Mail: K.V.Cherkirda@vniim.ru, dab@vniim.ru

### P-Members (16)

AUSTRIA  
FRANCE  
KOREA (R.)

ROMANIA  
SLOVAKIA  
UNITED STATES

BELGIUM  
HUNGARY  
NORWAY  
RUSSIAN FEDERATION  
TURKEY

CZECH REPUBLIC  
JAPAN  
POLAND  
SERBIA  
UNITED KINGDOM

### O-Members (18)

AUSTRALIA  
BULGARIA  
DENMARK  
GERMANY  
NETHERLANDS  
SOUTH AFRICA

BELARUS  
CANADA  
EGYPT  
INDONESIA  
P.R. CHINA  
SPAIN

BRAZIL  
CYPRUS  
FINLAND  
IRELAND  
SLOVENIA  
SWITZERLAND

### Liaisons

ISO - Organisation Internationale de Normalisation

### Publications

R 24 - 1975 : Standard one metre bar for verification officers - Confirmed 26/10/2007

R 66 - 1985 : Length measuring instruments - Confirmed 31/10/1985 - Under revision

R 98 - 1991 : High-precision line measures of length - Confirmed 31/10/2008

### Projects

p 2: Revision R 66: Length measuring instruments, status: no document yet

## **TC 7/SC 3: Measurement of areas**

*BIML contact: Ian Dunmill*

### **Secretariat**

Mr. Morayo Awosola  
NMO, National Measurement Office  
UNITED KINGDOM  
E-Mail: morayo.awosola@nmo.gov.uk

### **P-Members (4)**

CZECH REPUBLIC  
UNITED KINGDOM

JAPAN

RUSSIAN FEDERATION

### **O-Members (17)**

AUSTRALIA  
CYPRUS  
FRANCE  
P.R. CHINA  
SLOVAKIA  
SPAIN

AUSTRIA  
EGYPT  
GERMANY  
POLAND  
SLOVENIA  
UNITED STATES

BULGARIA  
FINLAND  
KOREA (R.)  
SERBIA  
SOUTH AFRICA

### **Publications**

R 136 - 1 - 2004 : Instruments for measuring the areas of leathers - Confirmed 31/10/2004

R 136 - 2 - 2006 : Instruments for measuring the areas of leathers. Part 2: Test Report Format - Confirmed 31/10/2006

### **Projects**



## **TC 7/SC 4: Measuring instruments for road traffic**

*BIML contact: lan Dunmill*

### **Secretariat**

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ambler.thompson@nist.gov

### **P-Members (22)**

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	CZECH REPUBLIC	FINLAND
FRANCE	GERMANY	JAPAN
NETHERLANDS	NORWAY	POLAND
ROMANIA	RUSSIAN FEDERATION	SERBIA
SLOVAKIA	SLOVENIA	SOUTH AFRICA
SWEDEN	SWITZERLAND	UNITED KINGDOM
UNITED STATES		

### **O-Members (8)**

BULGARIA	CYPRUS	DENMARK
EGYPT	IRELAND	KOREA (R.)
P.R. CHINA	SPAIN	

### **Liaisons**

IEC - Commission Electrotechnique Internationale

### **Publications**

R 21 - 2007 : Taximeters. Metrological and technical requirements, test procedures and test report format - Confirmed 31/10/2007  
R 55 - 1981 : Speedometers, mechanical odometers and chronotachographs for motor vehicles. Metrological regulations - Confirmed 31/10/1981 - Under revision  
R 91 - 1990 : Radar equipment for the measurement of the speed of vehicles - Confirmed 31/10/1990 - Under revision

### **Projects**

p 2: Revision of R 55: Speedometers, mechanical odometers and chronotachographs for motor vehicles, status: no document yet  
p 3: Revision of R 91: Radar equipment for the measurement of the speed of vehicles, status: no document yet

## **TC 7/SC 5: Dimensional measuring instruments**

*BIML contact: Ian Dunmill*

### **Secretariat**

Ms. Roselle Mailvaganam  
NMI, National Measurement Institute  
AUSTRALIA  
E-Mail:  
roselle.mailvaganam@measurement.gov.au

### **P-Members (12)**

AUSTRALIA	CANADA	CZECH REPUBLIC
FRANCE	GERMANY	NORWAY
RUSSIAN FEDERATION	SERBIA	SLOVENIA
SOUTH AFRICA	UNITED KINGDOM	UNITED STATES

### **O-Members (15)**

AUSTRIA	BULGARIA	CYPRUS
DENMARK	EGYPT	FINLAND
IRELAND	JAPAN	KOREA (R.)
NETHERLANDS	P.R. CHINA	POLAND
SLOVAKIA	SPAIN	SWITZERLAND

### **Liaisons**

ISO - Organisation Internationale de Normalisation

### **Publications**

R 129 - 2000 : Multi-dimensional measuring instruments - Confirmed 31/10/1999

### **Projects**

p 1: Revision R 129: Multi-dimensional measuring instrument, status: no document yet

## TC 8: Measurement of quantities of fluids

*BIML contact: Luis Mussio*

### Secretariat

Dr. Hugo Bissig  
METAS, Federal Institute of Metrology  
SWITZERLAND  
E-Mail: hugo.bissig@metas.ch

### P-Members (24)

AUSTRALIA	AUSTRIA	BELGIUM
CZECH REPUBLIC	DENMARK	FRANCE
GERMANY	JAPAN	KOREA (R.)
NETHERLANDS	NORWAY	P.R. CHINA
POLAND	ROMANIA	RUSSIAN FEDERATION
SERBIA	SLOVAKIA	SLOVENIA
SOUTH AFRICA	SWEDEN	SWITZERLAND
TURKEY	UNITED KINGDOM	UNITED STATES

### O-Members (12)

BRAZIL	BULGARIA	CANADA
CUBA	EGYPT	FINLAND
HUNGARY	INDONESIA	IRELAND
ITALY	SPAIN	TANZANIA

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 48/SC 6

CEN - Comité Européen de Normalisation

MARCOGAZ - Technical Association of the European Natural Gas Industry

### Publications

- R 40 - 1981 : Standard graduated pipettes for verification officers - Confirmed 31/10/1977 - Under revision
- R 41 - 1981 : Standard burettes for verification officers - Confirmed 31/10/1977 - Under revision
- R 43 - 1981 : Standard graduated glass flasks for verification officers - Confirmed 31/10/1977 - Under revision
- R 63 - 1994 : Petroleum measurement tables - Confirmed 31/10/1994 - Under revision
- R 119 - 1996 : Pipe provers for testing of measuring systems for liquids other than water - Confirmed 31/10/1996 - Under revision
- R 120 - 2010 : Standard capacity measures for testing measuring systems for liquids other than water - Confirmed 31/10/2009
- R 138 - 2007 : Vessels for commercial transactions - Confirmed 31/10/2007
- R 138 - Amend - 2009 : Vessels for commercial transactions (Amendment 2009) - Confirmed 31/10/2009
- D 25 - 2010 : Vortex meters used in measuring systems for fluids - Confirmed 31/10/2009
- D 26 - 2010 : Glass delivery measures - Automatic pipettes - Confirmed 31/10/2009

### Projects

- p 2: Test report format for vessels, status: no document yet
- p 3: Combined revision of R 40, R 41 & R 43 on standard volumetric measures, status: no document yet
- p 4: Test report format for standard volumetric measures, status: no document yet
- p 5: Revision of R 63 "Petroleum measurement tables", status: no document yet
- p 6: Revision R 119 "Pipe provers", status: no document yet

## TC 8/SC 1: Static volume and mass measurement

*BIML contact: Luis Mussio*

### Secretariat

Dr. G. Wendt

PTB, Physikalisch-Technische Bundesanstalt

GERMANY

E-Mail:

### P-Members (23)

AUSTRALIA

BELGIUM

FRANCE

KOREA (R.)

POLAND

SERBIA

SOUTH AFRICA

TURKEY

AUSTRIA

CUBA

GERMANY

NETHERLANDS

ROMANIA

SLOVAKIA

SWEDEN

UNITED STATES

BELARUS

CZECH REPUBLIC

JAPAN

P.R. CHINA

RUSSIAN FEDERATION

SLOVENIA

SWITZERLAND

### O-Members (11)

BRAZIL

DENMARK

IRELAND

TANZANIA

BULGARIA

EGYPT

KOREA (D.P.R.)

UNITED KINGDOM

CANADA

FINLAND

SPAIN

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 28/SC 1

MARCOGAZ - Technical Association of the European Natural Gas Industry

CEN - Comité Européen de Normalisation

CECOD - Comité de Fabricants Européens de Systèmes de Mesurage du Pétrole

### Publications

R 71 - 2008 : Fixed storage tanks. General requirements - Confirmed 31/10/2008 - Under revision

R 80 - 1 - 2009 : Road and rail tankers with level gauging. Part 1: Metrological and technical requirements - Confirmed 15/03/2009

R 85 - 1&2 - 2008 : Automatic level gauges for measuring the level of liquid in stationary storage tanks. Part 1: Metrological and technical requirements. Part 2: Metrological control and tests - Confirmed 31/10/2008 - Under revision

R 85 - 3 - 2008 : Automatic level gauges for measuring the level of liquid in stationary storage tanks. Part 3: Report Format for type evaluation - Confirmed 31/10/2008 - Under revision

R 95 - 1990 : Ships' tanks - General requirements - Confirmed 31/10/1990 - Under revision

R 125 - 1998 : Measuring systems for the mass of liquids in tanks - Confirmed 31/10/2008

### Projects

p 5: Revision R 95, Postponed, status: no document yet

p 6: Revision R 80 (Part. 2: Metrological control and tests, Part 3: Test Report Format), status: 1 CD

*Project leader: Dr.G. Wendt, GERMANY*

p 7: Revision of R 71, status: no document yet

*Project leader: Mr.Ralph A. Richter, UNITED STATES*

p 8: Revision of R 85, status: no document yet

*Project leader: Mr.Ralph A. Richter, UNITED STATES*

## TC 8/SC 3: Dynamic volume and mass measurement (liquids other than water)

*BIML contact: Luis Mussio*

### Secretariat

Dr. Michael Rinker  
PTB, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: michael.rinker@ptb.de

Mr. Ralph A. Richter  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ralph.richter@nist.gov

### P-Members (28)

AUSTRALIA	AUSTRIA	BELGIUM
CANADA	CUBA	CZECH REPUBLIC
DENMARK	FRANCE	GERMANY
JAPAN	KAZAKHSTAN	KOREA (R.)
NETHERLANDS	NEW ZEALAND	NORWAY
P.R. CHINA	POLAND	ROMANIA
RUSSIAN FEDERATION	SERBIA	SLOVAKIA
SLOVENIA	SOUTH AFRICA	SWEDEN
SWITZERLAND	TURKEY	UNITED KINGDOM
UNITED STATES		

### O-Members (10)

BRAZIL	BULGARIA	EGYPT
FINLAND	HUNGARY	INDONESIA
IRELAND	KOREA (D.P.R.)	SPAIN
TANZANIA		

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 28/SC 2

CEN - Comité Européen de Normalisation

CECOD - Comité de Fabricants Européens de Systèmes de Mesurage du Pétrole

ISO - Organisation Internationale de Normalisation, TC 28/SC 1

MARCOGAZ - Technical Association of the European Natural Gas Industry

### Publications

R 105 - 1993 : Direct mass flow measuring systems for quantities of liquids (including Annexes A and B) - Confirmed 31/10/1993

R 105 - C - 1995 : Direct mass flow measuring systems for quantities of liquids - Annex C: Test report format - Confirmed 31/10/1995

R 117 - 1 - 2007 : Dynamic measuring systems for liquids other than water. Part 1: Metrological and technical requirements - Confirmed 31/10/2007

R 118 - 1995 : Testing procedures and test report format for pattern examination of fuel dispensers for motor vehicles - Confirmed 31/10/1995

### Projects

p 2: R 117-2: Measuring systems for liquids other than water - Part 2: Test methods., This project includes OIML R 118 revision., status: 1 CD

p 3: Measuring systems for liquids other than water - Part 3: Evaluation Report Format., This project includes the revision of OIML R 118., status: 1 WD

## TC 8/SC 5: Water meters

*BIML contact: Luis Mussio*

### Secretariat

Dr. M. Reader Harris  
NEL, National Engineering Laboratory  
UNITED KINGDOM  
E-Mail: mreader@tuvnel.com

Mr. Morayo Awosola  
NMO, NMO Certification Services  
UNITED KINGDOM  
E-Mail: morayo.awosola@nmo.gov.uk

### P-Members (26)

AUSTRALIA  
BRAZIL  
CZECH REPUBLIC  
GERMANY  
NORWAY  
ROMANIA  
SLOVAKIA  
SWEDEN  
UNITED KINGDOM

AUSTRIA  
CANADA  
DENMARK  
JAPAN  
P.R. CHINA  
RUSSIAN FEDERATION  
SLOVENIA  
SWITZERLAND  
UNITED STATES

BELGIUM  
CUBA  
FRANCE  
KOREA (R.)  
POLAND  
SERBIA  
SOUTH AFRICA  
TURKEY

### O-Members (13)

BELARUS  
FINLAND  
IRELAND  
KOREA (D.P.R.)  
TANZANIA

BULGARIA  
HUNGARY  
ISRAEL  
NETHERLANDS

EGYPT  
INDONESIA  
ITALY  
SPAIN

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 30  
IWA - International Water Association

CEN - Comité Européen de Normalisation  
AQUA - Association Européenne des fabricants de compteurs d'eau

### Publications

R 49 - 1 - 2006 : Water meters intended for the metering of cold potable water and hot water. Part 1: Metrological and technical requirements - Confirmed 31/10/2008 - Under revision  
R 49 - 2 - 2006 : Water meters intended for the metering of cold potable water and hot water. Part 2: Test methods - Confirmed 31/10/2008  
R 49 - 3 - 2006 : Water meters intended for the metering of cold potable water and hot water. Part 3: Test report format - Confirmed 31/10/2008 - Under revision

### Projects

p 2: Revision of R 49-1, R 49-2, R 49-3  
This revision is carried out in collaboration with ISO TC 30/SC 7 and CEN 92, status: 2 CD

## TC 8/SC 6: Measurement of cryogenic liquids

*BIML contact: Luis Mussio*

### Secretariat

Ms. Juana S. Williams  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: juana.williams@nist.gov

### P-Members (11)

CZECH REPUBLIC	DENMARK	FRANCE
GERMANY	KOREA (R.)	NETHERLANDS
SLOVAKIA	SOUTH AFRICA	SWITZERLAND
UNITED KINGDOM	UNITED STATES	

### O-Members (18)

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	BULGARIA	CANADA
CUBA	EGYPT	FINLAND
INDONESIA	JAPAN	NORWAY
P.R. CHINA	POLAND	ROMANIA
RUSSIAN FEDERATION	SERBIA	SPAIN

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 28/SC 2

ISO - Organisation Internationale de Normalisation, TC 28/SC 1

MARCOGAZ - Technical Association of the European Natural Gas Industry

### Publications

R 81 - 1998 : Dynamic measuring devices and systems for cryogenic liquids - Confirmed 31/10/2007 - Under revision

R 81 - D - 2006 : Dynamic measuring devices and systems for cryogenic liquids - Annex D: Test report format - Confirmed 31/10/2007 - Under revision

### Projects

p 1: Revision of OIML R 81, status: no document yet

## TC 8/SC 7: Gas metering

*BIML contact: Luis Mussio*

### Secretariat

Mr. George Teunisse  
Verispect B.V.  
NETHERLANDS  
E-Mail: gteunisse@verispect.nl

### P-Members (23)

AUSTRALIA	AUSTRIA	BELGIUM
CANADA	CZECH REPUBLIC	DENMARK
FRANCE	GERMANY	JAPAN
NETHERLANDS	P.R. CHINA	POLAND
ROMANIA	RUSSIAN FEDERATION	SERBIA
SLOVAKIA	SLOVENIA	SOUTH AFRICA
SWEDEN	SWITZERLAND	TURKEY
UNITED KINGDOM	UNITED STATES	

### O-Members (13)

BRAZIL	BULGARIA	CUBA
EGYPT	FINLAND	HUNGARY
INDONESIA	IRELAND	ITALY
MACEDONIA (F.Y.R.)	NEW ZEALAND	NORWAY
SPAIN		

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 30	CEN - Comité Européen de Normalisation
CECOD - Comité de Fabricants Européens de Systèmes de Mesurage du Pétrole	FACOGAZ - Association des Fabricants Européens de Compteurs de Gaz
NGVA - Natural and bio Gas Vehicle Association	IGU - International Gas Union
IANGV - International Association for Natural Gas Vehicles	MARCOGAZ - Technical Association of the European Natural Gas Industry

### Publications

R 137 - 1&2 - 2012 : Gas meters. Part 1 Metrological and technical requirements and Part 2 Metrological controls and performance tests  
R 139 - 2007 : Compressed gaseous fuel measuring systems for vehicles - Confirmed 31/10/2007 - Under revision  
R 140 - 2007 : Measuring systems for gaseous fuel - Confirmed 31/10/2007

### Projects

p 3: R 137-2: Gas meters - Part 2 Test methods, status: 2 CD  
p 4: Revision of OIML R 139 Compressed gaseous fuels measuring systems for vehicles, status: 2 WD



## TC 9: Instruments for measuring mass and density

*BIML contact: Ian Dunmill*

### Secretariat

Mr. Kenneth Butcher  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: kenneth.butcher@nist.gov

Mr. John Barton  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: john.barton@nist.gov

### P-Members (26)

AUSTRALIA  
CANADA  
DENMARK  
GERMANY  
NETHERLANDS  
POLAND  
SAUDI ARABIA  
SWEDEN  
UNITED KINGDOM

AUSTRIA  
CUBA  
FINLAND  
JAPAN  
NORWAY  
ROMANIA  
SERBIA  
SWITZERLAND  
UNITED STATES

BELGIUM  
CZECH REPUBLIC  
FRANCE  
KOREA (R.)  
P.R. CHINA  
RUSSIAN FEDERATION  
SPAIN  
TURKEY

### O-Members (12)

BRAZIL  
EGYPT  
IRELAND  
SLOVENIA

BULGARIA  
HUNGARY  
ITALY  
SOUTH AFRICA

CYPRUS  
INDONESIA  
SLOVAKIA  
TANZANIA

### Liaisons

IEC - Commission Electrotechnique Internationale

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### Publications

R 60 - 2000 : Metrological regulation for load cells - Confirmed 31/10/2008 - Under revision

### Projects

p 1: Revision of R 60 "Metrological Regulation for Load Cells", status: no document yet

## TC 9/SC 1: Nonautomatic weighing instruments

*BIML contact: Ian Dunmill*

### Secretariat

Mrs. Corinne Lagauterie  
Ministère de l'Economie, des Finances et de l'Industrie  
FRANCE  
E-Mail: corinne.lagauterie@finances.gouv.fr

Prof. Roman Schwartz  
PTB, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: roman.schwartz@ptb.de

### P-Members (28)

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	CANADA	CZECH REPUBLIC
DENMARK	FINLAND	FRANCE
GERMANY	JAPAN	KOREA (R.)
NETHERLANDS	NEW ZEALAND	NORWAY
P.R. CHINA	POLAND	ROMANIA
RUSSIAN FEDERATION	SERBIA	SLOVENIA
SOUTH AFRICA	SPAIN	SWEDEN
SWITZERLAND	TURKEY	UNITED KINGDOM
UNITED STATES		

### O-Members (8)

BULGARIA	CYPRUS	HUNGARY
IRAN	IRELAND	ITALY
SLOVAKIA	TANZANIA	

### Liaisons

ISO - Organisation Internationale de Normalisation

CECIP - Comité Européen des Fabricants d'Instruments de Pesage

### Publications

R 76 - 1 - 2006 : Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests - Confirmed 31/10/2006

R 76 - 2 - 2007 : Non-automatic weighing instruments. Part 2: Test report format - Confirmed 31/10/2007

### Projects

## TC 9/SC 2: Automatic weighing instruments

*BIML contact: Ian Dunmill*

### Secretariat

Mr. Morayo Awosola  
NMO, National Measurement Office  
UNITED KINGDOM  
E-Mail: morayo.awosola@nmo.gov.uk

### P-Members (25)

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	CZECH REPUBLIC	DENMARK
FINLAND	FRANCE	GERMANY
JAPAN	KOREA (R.)	NETHERLANDS
NORWAY	P.R. CHINA	POLAND
ROMANIA	RUSSIAN FEDERATION	SLOVENIA
SOUTH AFRICA	SPAIN	SWEDEN
SWITZERLAND	TURKEY	UNITED KINGDOM
UNITED STATES		

### O-Members (8)

BULGARIA	CANADA	CYPRUS
HUNGARY	IRELAND	SERBIA
SLOVAKIA	TANZANIA	

### Liaisons

ISO - Organisation Internationale de Normalisation

COPAMA - Confederation of Packaging Machinery Associations

CECIP - Comité Européen des Fabricants d'Instruments de Pesage

### Publications

R 50 - 1 - 1997 : Continuous totalizing automatic weighing instruments (belt weighers). Part 1: Metrological and technical requirements - Tests - Confirmed 31/10/1997 - Under revision  
R 50 - 2 - 1997 : Continuous totalizing automatic weighing instruments (belt weighers). Part 2 : Test report format - Confirmed 31/10/1997 - Under revision  
R 51 - 1 - 2006 : Automatic catchweighing instruments. Part 1: Metrological and technical requirements - Tests - Confirmed 31/10/2006  
R 51 - 1-erratum - 2010 : Erratum (2010.08.09) to R 51-1:2006 Automatic catchweighing instruments. Part 1: Metrological and technical requirements - Tests  
R 51 - 2 - 2006 : Automatic catchweighing instruments. Part 2: Test report format - Confirmed 30/10/2006  
R 61 - 1 - 2004 : Automatic gravimetric filling instruments. Part 1 : Metrological and technical requirements - Tests - Confirmed 30/09/2004  
R 61 - 2 - 2004 : Automatic gravimetric filling instruments. Part 2: Test report format - Confirmed 31/10/2004  
R 107 - 1 - 2007 : Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 1: Metrological and technical requirements - Tests - Confirmed 31/10/2007  
R 107 - 2 - 2007 : Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 2: Test report format - Confirmed 31/10/2008  
R 134 - 1 - 2006 : Automatic instruments for weighing road vehicles in motion and measuring axle loads. Part 1: Metrological and technical requirements – Tests - Confirmed 31/10/2006  
R 134 - 2 - 2009 : Automatic instruments for weighing road vehicles in motion and measuring axle loads. Part 2: Test report format

### Projects

p 3: Revision of R 106 Parts 1 and 2, (Part. 1: DR currently with BIML for online CIML approval and Part. 2: 3 CD), status: 3 CD  
p 7: Revision of R 50. Part 1, status: 2 CD

## **TC 9/SC 3: Weights**

*BIML contact: Ian Dunmill*

### **Secretariat**

Dr. Michael Borys  
PTB, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: michael.borys@ptb.de

### **P-Members (21)**

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	CZECH REPUBLIC	DENMARK
FINLAND	FRANCE	GERMANY
INDIA	JAPAN	P.R. CHINA
POLAND	ROMANIA	RUSSIAN FEDERATION
SLOVENIA	SPAIN	SWITZERLAND
TURKEY	UNITED KINGDOM	UNITED STATES

### **O-Members (11)**

BULGARIA	CYPRUS	HUNGARY
IRAN	IRELAND	ITALY
NETHERLANDS	NORWAY	SERBIA
SLOVAKIA	SOUTH AFRICA	

### **Liaisons**

CECIP - Comité Européen des Fabricants d'Instruments  
de Pesage

### **Publications**

R 47 - 1979 : Standard weights for testing of high capacity weighing machines - Confirmed 31/10/1978  
R 52 - 2004 : Hexagonal weights - Metrological and technical requirements - Confirmed 13/07/2004  
R 111 - 1 - 2004 : Weights of classes E1, E2, F1, F2, M1, M1-2, M2, M2-3 and M3. Part 1: Metrological and technical requirements - Confirmed 31/10/2004  
R 111 - 2 - 2004 : Weights of classes E1, E2, F1, F2, M1, M1-2, M2, M2-3 and M3. Part 2: Test report format - Confirmed 31/10/2004  
D 28 - 2004 : Conventional value of the result of weighing in air (Revision of R 33)

### **Projects**

## TC 9/SC 4: Densities

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Natalia G. Domostroeveva

D.I. Mendeleyev Institute for Metrology (VNIIM)

RUSSIAN FEDERATION

E-Mail: n.g.domostroeveva@vniim.ru, dab@vniim.ru

### P-Members (13)

AUSTRALIA

CZECH REPUBLIC

NORWAY

RUSSIAN FEDERATION

UNITED STATES

AUSTRIA

FRANCE

P.R. CHINA

SERBIA

BRAZIL

GERMANY

POLAND

UNITED KINGDOM

### O-Members (13)

BELGIUM

DENMARK

HUNGARY

SLOVAKIA

SWITZERLAND

BULGARIA

EGYPT

JAPAN

SLOVENIA

CYPRUS

FINLAND

ROMANIA

SPAIN

### Liaisons

OIV - Organisation Internationale de la Vigne et du Vin

CECIP - Comité Européen des Fabricants d'Instruments de Pesage

ISO - Organisation Internationale de Normalisation, TC 34/SC 4

ICC - Association Internationale des Sciences et Technologies Céréalières

### Publications

R 15 - 1974 : Instruments for measuring the hectolitre mass of cereals - Confirmed 31/10/1970

R 22 - 1975 : International alcoholometric tables - Confirmed 25/04/2005 - Under revision

R 44 - 1985 : Alcoholometers and alcohol hydrometers and thermometers for use in alcoholometry - Confirmed 31/10/1985

### Projects

p 2: Revision R 22: International alcoholometric tables, status: no document yet

p 3: Hierarchy scheme for density-measuring instruments, status: 2 CD

## **TC 10: Instruments for measuring pressure, force and associated quantities**

*BIML contact: Willem Kool*

### **Secretariat**

Mr. Ralph A. Richter  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [ralph.richter@nist.gov](mailto:ralph.richter@nist.gov)

### **P-Members (14)**

AUSTRIA	BELGIUM	CUBA
CZECH REPUBLIC	FINLAND	GERMANY
JAPAN	KOREA (R.)	POLAND
ROMANIA	RUSSIAN FEDERATION	SLOVAKIA
UNITED KINGDOM	UNITED STATES	

### **O-Members (14)**

BRAZIL	BULGARIA	DENMARK
EGYPT	FRANCE	HUNGARY
INDONESIA	IRELAND	NETHERLANDS
P.R. CHINA	SERBIA	SLOVENIA
SPAIN	TANZANIA	

### **Liaisons**

ISO - Organisation Internationale de Normalisation

### **Publications**

R 23 - 1975 : Tire pressure gauges for motor vehicles - Confirmed 31/10/1973 - Under revision

### **Projects**

p 1: Revision R 23: Tire pressure gauges for motor vehicles, status: 2 CD

## **TC 10/SC 1: Pressure balances**

*BIML contact: Willem Kool*

### **Secretariat**

Mr. Jiri Tesar  
CMI, Czech Metrology Institute  
CZECH REPUBLIC  
E-Mail: jtesar@cmi.cz

### **P-Members (11)**

AUSTRIA	BELGIUM	CZECH REPUBLIC
FRANCE	GERMANY	JAPAN
ROMANIA	RUSSIAN FEDERATION	SERBIA
SLOVAKIA	UNITED STATES	

### **O-Members (10)**

BULGARIA	DENMARK	EGYPT
FINLAND	HUNGARY	NETHERLANDS
P.R. CHINA	POLAND	SLOVENIA
SPAIN		

### **Liaisons**

ISO - Organisation Internationale de Normalisation

### **Publications**

R 110 - 1994 : Pressure balances - Confirmed 31/10/1994

### **Projects**

p 1: Pressure transducers with (4-20) mA or (10-50) mA output signal, status: 4 CD

## TC 10/SC 2: Pressure gauges with elastic sensing elements

*BIML contact: Willem Kool*

### Secretariat

Mr. Alexander I. Goncharov

FSUE VNIIMS, All-Russian Scientific Research Institute  
of Metrological Service

RUSSIAN FEDERATION

E-Mail: alex-vm@vniims.ru

### P-Members (11)

AUSTRIA

GERMANY

RUSSIAN FEDERATION

UNITED KINGDOM

BELGIUM

JAPAN

SERBIA

UNITED STATES

CZECH REPUBLIC

ROMANIA

SLOVAKIA

### O-Members (11)

BULGARIA

HUNGARY

NETHERLANDS

SLOVENIA

FINLAND

IRELAND

P.R. CHINA

SPAIN

FRANCE

KOREA (D.P.R.)

POLAND

### Liaisons

ISO - Organisation Internationale de Normalisation

### Publications

R 53 - 1982 : Metrological characteristics of elastic sensing elements used for measurement of pressure.  
Determination methods - Confirmed 31/10/1982

R 101 - 1991 : Indicating and recording pressure gauges, vacuum gauges and pressure-vacuum gauges  
with elastic sensing elements (ordinary instruments) - Confirmed 31/10/2000 - Under revision

R 109 - 1993 : Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments) -  
Confirmed 31/10/2006 - Under revision

### Projects

p 1: Pressure gauges with elastic sensing elements, status: 3 CD

p 2: Revision R101: Indicating and recording pressure gauges, vacuum gauges and pressure-vacuum  
gauges with elastic sensing elements (ordinary instruments)., Revision combined with revision R 109 (see  
p3)., status: 1 CD

p 3: Revision R 109: Pressure gauges and vacuum gauges with elastic sensing elements (standard  
instruments)., Combined revision of R 101 and R 109 is being developed by the Subcommittee., status: 1 CD



## TC 10/SC 3: Barometers

*BIML contact: Willem Kool*

### Secretariat

Mrs. LI Yanhua  
NIM, Nationale Institute of Metrology  
P.R. CHINA  
E-Mail: liyh@nim.ac.cn

### P-Members (5)

BELGIUM	JAPAN	RUSSIAN FEDERATION
SLOVAKIA	UNITED STATES	

### O-Members (13)

AUSTRIA	BULGARIA	CZECH REPUBLIC
FINLAND	GERMANY	HUNGARY
P.R. CHINA	POLAND	ROMANIA
SERBIA	SLOVENIA	SPAIN
UNITED KINGDOM		

### Publications

R 97 - 1990 : Barometers - Confirmed 31/10/1990 - Under revision

### Projects

p 1: Revision R 97: Barometers, status: no document yet

## TC 10/SC 4: Material testing machines

*BIML contact: Willem Kool*

### Secretariat

Mr. Ralph A. Richter  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ralph.richter@nist.gov

### P-Members (5)

BELGIUM	CZECH REPUBLIC	POLAND
RUSSIAN FEDERATION	UNITED STATES	

### O-Members (15)

AUSTRIA	BELARUS	BULGARIA
DENMARK	FINLAND	FRANCE
IRELAND	JAPAN	NETHERLANDS
P.R. CHINA	ROMANIA	SERBIA
SLOVAKIA	SLOVENIA	SPAIN

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 164

### Publications

R 65 - 2006 : Force measuring system of uniaxial material testing machines - Confirmed 31/10/2006

### Projects

# **TC 11: Instruments for measuring temperature and associated quantities**

*BIML contact: Luis Mussio*

## **Secretariat**

Dr. Joachim Fischer  
PTB Berlin, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: Joachim.Fischer@ptb.de

## **P-Members (15)**

AUSTRIA	BELGIUM	CZECH REPUBLIC
DENMARK	FRANCE	GERMANY
JAPAN	KOREA (R.)	POLAND
RUSSIAN FEDERATION	SERBIA	SLOVAKIA
SLOVENIA	UNITED KINGDOM	UNITED STATES

## **O-Members (15)**

AUSTRALIA	BRAZIL	BULGARIA
CANADA	EGYPT	FINLAND
HUNGARY	INDONESIA	KOREA (D.P.R.)
NETHERLANDS	NORWAY	SPAIN
SRI LANKA	SWITZERLAND	TANZANIA

## **Liaisons**

ISO - Organisation Internationale de Normalisation, TC  
163/SC 1

IEC - Commission Electrotechnique Internationale

EHP - Euroheat & Power

## **Publications**

R 75 - 1 - 2002 : Heat meters. Part 1: General requirements - Confirmed 31/10/2009  
R 75 - 2 - 2002 : Heat meters. Part 2: Type approval tests - Confirmed 31/10/2009  
R 75 - 3 - 2006 : Heat meters. Part 3: Test Report Format - Confirmed 31/10/2009

## **Projects**

# TC 11/SC 1: Resistance thermometers

*BIML contact: Luis Mussio*

## Secretariat

Dr. Anatoliy I. Pokhodun  
D.I. Mendeleyev Institute for Metrology (VNIIM)  
RUSSIAN FEDERATION  
E-Mail: A.I.Pokhodun@vniim.ru, dab@vniim.ru

## P-Members (12)

AUSTRIA	CZECH REPUBLIC	GERMANY
KOREA (R.)	NETHERLANDS	POLAND
RUSSIAN FEDERATION	SERBIA	SLOVAKIA
SLOVENIA	UNITED KINGDOM	UNITED STATES

## O-Members (12)

BULGARIA	CANADA	DENMARK
EGYPT	FINLAND	HUNGARY
IRELAND	JAPAN	KOREA (D.P.R.)
NORWAY	SPAIN	SRI LANKA

## Liaisons

ISO - Organisation Internationale de Normalisation, TC  
48/SC 3

IEC - Commission Electrotechnique Internationale

## Publications

R 84 - 2003 : Platinum, copper, and nickel resistance thermometers (for industrial and commercial use) -  
Confirmed 31/10/2009

## Projects

## **TC 11/SC 2: Contact thermometers**

*BIML contact: Luis Mussio*

### **Secretariat**

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [ambler.thompson@nist.gov](mailto:ambler.thompson@nist.gov)

### **P-Members (12)**

AUSTRIA	CZECH REPUBLIC	GERMANY
JAPAN	KOREA (R.)	NETHERLANDS
POLAND	RUSSIAN FEDERATION	SERBIA
SLOVAKIA	UNITED KINGDOM	UNITED STATES

### **O-Members (11)**

BULGARIA	DENMARK	EGYPT
FINLAND	HUNGARY	IRAN
IRELAND	KOREA (D.P.R.)	NORWAY
SPAIN	SRI LANKA	

### **Liaisons**

ISO - Organisation Internationale de Normalisation, TC  
48/SC 3

IEC - Commission Electrotechnique Internationale

### **Publications**

R 133 - 2002 : Liquid-in-glass thermometers - Confirmed 03/02/2010

### **Projects**

## TC 11/SC 3: Radiation thermometers

*BIML contact: Luis Mussio*

### Secretariat

Dr. Anatoliy I. Pokhodun  
D.I. Mendeleyev Institute for Metrology (VNIIM)  
RUSSIAN FEDERATION  
E-Mail: A.I.Pokhodun@vniim.ru, dab@vniim.ru

### P-Members (9)

CZECH REPUBLIC	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	RUSSIAN FEDERATION
SLOVAKIA	UNITED KINGDOM	UNITED STATES

### O-Members (12)

AUSTRIA	BULGARIA	EGYPT
FINLAND	HUNGARY	IRAN
KOREA (D.P.R.)	NORWAY	POLAND
SERBIA	SPAIN	SRI LANKA

### Liaisons

ISO - Organisation Internationale de Normalisation, TC  
48/SC 3

CIE - Commission Internationale de l'Eclairage

### Publications

R 18 - 1989 : Visual disappearing filament pyrometers - Confirmed 31/10/2008 - Under revision  
R 48 - 2004 : Tungsten ribbon lamps for the calibration of radiation thermometers - Confirmed 31/10/2009  
R 141 - 2008 : Procedure for calibration and verification of the main characteristics of thermographic instruments - Confirmed 31/10/2008  
D 24 - 1996 : Total radiation pyrometers - Confirmed 31/10/2008

### Projects

p 3: Standard black body radiator for the temperature range from - 50°C to 2500°C, status: 3 CD  
p 5: Revision of R 18, status: no document yet

## TC 12: Instruments for measuring electrical quantities

*BIML contact: Willem Kool*

### Secretariat

Dr. Phillip Mitchell  
NMI, National Measurement Institute  
AUSTRALIA  
E-Mail: [phillip.mitchell@measurement.gov.au](mailto:phillip.mitchell@measurement.gov.au)

### P-Members (23)

AUSTRALIA	AUSTRIA	BRAZIL
CANADA	CUBA	CZECH REPUBLIC
FINLAND	FRANCE	GERMANY
JAPAN	KOREA (R.)	NETHERLANDS
NORWAY	ROMANIA	RUSSIAN FEDERATION
SERBIA	SLOVAKIA	SLOVENIA
SWEDEN	SWITZERLAND	TURKEY
UNITED KINGDOM	UNITED STATES	

### O-Members (12)

BELGIUM	BULGARIA	DENMARK
EGYPT	HUNGARY	INDONESIA
IRELAND	ISRAEL	P.R. CHINA
POLAND	SOUTH AFRICA	SRI LANKA

### Liaisons

IEC - Commission Electrotechnique Internationale  
ESMIG - European Smart Metering Industry Group

EURELECTRIC/UNIPED - Union of the Electricity Industry

### Publications

### Projects

- p 1: Revision R 46: Active electrical energy meters for direct connection of class 2., status: 6 CD
- p 2: Verification of watthour meters, status: no document yet

## TC 13: Measuring instruments for acoustics and vibration

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Thomas Fedtke  
PTB, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: thomas.fedtke@ptb.de

### P-Members (15)

AUSTRIA	BRAZIL	CANADA
CZECH REPUBLIC	DENMARK	FRANCE
GERMANY	JAPAN	KOREA (R.)
P.R. CHINA	POLAND	RUSSIAN FEDERATION
SWITZERLAND	UNITED KINGDOM	UNITED STATES

### O-Members (13)

AUSTRALIA	BELARUS	BULGARIA
CUBA	EGYPT	FINLAND
INDONESIA	NETHERLANDS	ROMANIA
SERBIA	SLOVAKIA	SLOVENIA
SPAIN		

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 43      IEC - Commission Electrotechnique Internationale

### Publications

R 58 - 1998 : Sound level meters - Confirmed 31/10/1998 - Under revision  
R 88 - 1998 : Integrating-averaging sound level meters - Confirmed 31/10/1998 - Under revision  
R 102 - 1992 : Sound calibrators (including Annex A) - Confirmed 31/10/1992 - Under revision  
R 102 - B&C - 1995 : Sound calibrators - Annexes B and C: Test methods for pattern evaluation and test report format - Confirmed 01/01/1995 - Under revision  
R 103 - 1992 : Measuring instrumentation for human response to vibration - Confirmed 31/10/1992 - Under revision  
R 104 - 1993 : Pure-tone audiometers (including Annexes A to E) - Confirmed 31/10/1993 - Under revision  
R 104 - F - 1997 : Pure-tone audiometers - Annex F: Test report format - Confirmed 31/10/1997 - Under revision  
R 122 - 1996 : Equipment for speech audiometry - Confirmed 31/10/1996  
R 122 - C - 1999 : Equipment for speech audiometry - Annex C: Test report format - Confirmed 31/10/1999  
R 130 - 2001 : Octave-band and one-third-octave-band filters - Confirmed 31/10/2000

### Projects

p 2: Revision R 103: Measuring instrumentation for human response to vibration., status: no document yet  
p 3: Revision R 102: Sound calibrators (including Annex A), status: 1 WD  
p 4: Revision R 104: Pure-tone audiometers, status: no document yet  
p 5: Combined revision of R 58 + R 88: Connected with the ongoing revision of IEC 61672 Sound level meters., status: no document yet

## **TC 14: Measuring instruments used for optics**

*BIML contact: Ian Dunmill*

### **Secretariat**

Mr. Tibor Gerlai  
MKEH, Hungarian Trade Licensing Office  
HUNGARY  
E-Mail: gerlait@mkeh.hu

### **P-Members (8)**

BRAZIL	GERMANY	HUNGARY
KOREA (R.)	ROMANIA	RUSSIAN FEDERATION
SLOVAKIA	UNITED STATES	

### **O-Members (15)**

BELARUS	BULGARIA	CUBA
CZECH REPUBLIC	EGYPT	FINLAND
INDONESIA	JAPAN	NETHERLANDS
NORWAY	P.R. CHINA	POLAND
SERBIA	SLOVENIA	SPAIN

### **Liaisons**

ISO - Organisation Internationale de Normalisation, TC 172      IEC - Commission Electrotechnique Internationale  
CIE - Commission Internationale de l'Eclairage

### **Publications**

R 93 - 1999 : Focimeters - Confirmed 31/10/2004

### **Projects**



## TC 15: Measuring instruments for ionizing radiations

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Vladimir P. Yarina

VNIIFTRI, National Scientific and Research Institute for  
Physical-technical and Radio-technical Measurements  
RUSSIAN FEDERATION

E-Mail: yarina@vniiftri.ru

### P-Members (15)

AUSTRIA  
CUBA  
GERMANY  
ROMANIA  
SLOVENIA

BELGIUM  
CZECH REPUBLIC  
KOREA (R.)  
RUSSIAN FEDERATION  
UNITED KINGDOM

CANADA  
DENMARK  
NETHERLANDS  
SERBIA  
UNITED STATES

### O-Members (15)

BELARUS  
EGYPT  
INDONESIA  
NORWAY  
SLOVAKIA

BRAZIL  
FINLAND  
IRELAND  
P.R. CHINA  
SPAIN

BULGARIA  
HUNGARY  
JAPAN  
POLAND  
SWITZERLAND

### Liaisons

IAEA - Agence Internationale de l'Energie Atomique

ISO - Organisation Internationale de Normalisation, TC 85

IEC - Commission Electrotechnique Internationale

ICRU - International Commission on Radiation Units and  
Measurements

### Publications

### Projects

# **TC 15/SC 1: Measuring instruments for ionizing radiations used in medical applications**

*BIML contact: Ian Dunmill*

## **Secretariat**

Dr. Vladimir P. Yarina

VNIIFTRI, National Scientific and Research Institute for  
Physical-technical and Radio-technical Measurements  
RUSSIAN FEDERATION

E-Mail: yarina@vniiftri.ru

## **P-Members (13)**

AUSTRIA

CUBA

KOREA (R.)

RUSSIAN FEDERATION

UNITED STATES

BELGIUM

DENMARK

NETHERLANDS

SERBIA

CANADA

GERMANY

ROMANIA

UNITED KINGDOM

## **O-Members (15)**

BELARUS

CZECH REPUBLIC

HUNGARY

P.R. CHINA

SLOVENIA

BRAZIL

EGYPT

IRELAND

POLAND

SPAIN

BULGARIA

FINLAND

JAPAN

SLOVAKIA

SWITZERLAND

## **Liaisons**

IAEA - Agence Internationale de l'Energie Atomique

ISO - Organisation Internationale de Normalisation

IEC - Commission Electrotechnique Internationale

ICRU - International Commission on Radiation Units and  
Measurements

## **Publications**

D 21 - 1990 : Secondary standard dosimetry laboratories for the calibration of dosimeters used in  
radiotherapy - Confirmed 01/01/1990

## **Projects**

p 1: Measurement of radionuclides pollution, status: no document yet

p 2: Reference dosimetry system for ionizing radiation processing, status: no document yet

p 3: Radiation protection dosimetry for area monitoring, status: no document yet

p 4: Dosimeters and dose-rate meters of beta-radiation for application in therapy., status: 1 WD

## **TC 15/SC 2: Measuring instruments for ionizing radiations used in industrial processes**

*BIML contact: Ian Dunmill*

### **Secretariat**

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ambler.thompson@nist.gov

### **P-Members (13)**

AUSTRIA	BELGIUM	CANADA
CUBA	DENMARK	GERMANY
KOREA (R.)	NETHERLANDS	ROMANIA
RUSSIAN FEDERATION	SERBIA	UNITED KINGDOM
UNITED STATES		

### **O-Members (13)**

BELARUS	BRAZIL	BULGARIA
CZECH REPUBLIC	EGYPT	FINLAND
IRELAND	JAPAN	P.R. CHINA
POLAND	SLOVAKIA	SPAIN
SWITZERLAND		

### **Liaisons**

IAEA - Agence Internationale de l'Energie Atomique	IEC - Commission Electrotechnique Internationale
ISO - Organisation Internationale de Normalisation	ICRU - International Commission on Radiation Units and Measurements

### **Publications**

R 127 - 1999 : Radiochromic film dosimetry system for ionizing radiation processing of materials and products - Confirmed 03/02/2010  
R 131 - 2001 : Polymethylmethacrylate (PMMA) dosimetry systems for ionizing radiation processing of materials and products - Confirmed 03/02/2010  
R 132 - 2001 : Alanine EPR dosimetry systems for ionizing radiation processing of materials and products - Confirmed 03/02/2010

### **Projects**

## TC 16: Instruments for measuring pollutants

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: [ambler.thompson@nist.gov](mailto:ambler.thompson@nist.gov)

### P-Members (13)

AUSTRALIA	BRAZIL	CANADA
CZECH REPUBLIC	GERMANY	JAPAN
KOREA (R.)	NETHERLANDS	ROMANIA
RUSSIAN FEDERATION	SLOVAKIA	TURKEY
UNITED STATES		

### O-Members (14)

AUSTRIA	BULGARIA	CUBA
EGYPT	FINLAND	FRANCE
INDONESIA	IRELAND	NORWAY
P.R. CHINA	POLAND	SERBIA
SPAIN	SWITZERLAND	

### Liaisons

ISO - Organisation Internationale de Normalisation

### Publications

### Projects

## TC 16/SC 1: Air pollution

*BIML contact: Ian Dunmill*

### Secretariat

Mr. George Teunisse  
Verispect B.V.  
NETHERLANDS  
E-Mail: gteunisse@verispect.nl

### P-Members (12)

AUSTRALIA	BRAZIL	FRANCE
GERMANY	JAPAN	NETHERLANDS
POLAND	ROMANIA	RUSSIAN FEDERATION
SERBIA	SPAIN	UNITED STATES

### O-Members (12)

BULGARIA	CZECH REPUBLIC	EGYPT
FINLAND	HUNGARY	INDONESIA
IRELAND	MONACO	P.R. CHINA
SLOVAKIA	SLOVENIA	SWITZERLAND

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 22/SC 5

IEC - Commission Electrotechnique Internationale

IUPAC - International Union of Pure and Applied Chemistry

### Publications

R 99 - 1&2 - 2008 : Instruments for measuring vehicle exhaust emissions. Part 1: Metrological and technical requirements. Part 2: Metrological controls and performance tests - Confirmed 31/10/2008

R 99 - 3 - 2008 : Instruments for measuring vehicle exhaust emissions. Part 3: Report Format - Confirmed 31/10/2008

R 143 - 2009 : Instruments for the continuous measurement of SO<sub>2</sub> in stationary source emissions - Confirmed 17/11/2009

### Projects

p 1: (combined projects p1 and p3) Continuous measuring instruments for CO and NO<sub>x</sub> emissions, status: 1 CD

*Project leader: Mr. Alexey B. Diatlev, RUSSIAN FEDERATION*

## TC 16/SC 2: Water pollution

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ambler.thompson@nist.gov

### P-Members (8)

AUSTRIA	BRAZIL	CROATIA
JAPAN	P.R. CHINA	ROMANIA
RUSSIAN FEDERATION	UNITED STATES	

### O-Members (16)

BULGARIA	CUBA	CZECH REPUBLIC
FINLAND	FRANCE	HUNGARY
INDONESIA	IRELAND	KOREA (R.)
MONACO	POLAND	SERBIA
SLOVAKIA	SLOVENIA	SPAIN
SWITZERLAND		

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 147/SC 1

IEC - Commission Electrotechnique Internationale

IUPAC - International Union of Pure and Applied Chemistry

### Publications

R 83 - 2006 : Gas chromatograph/mass spectrometer systems for the analysis of organic pollutants in water - Confirmed 31/10/2006

R 100 - 1991 : Atomic absorption spectrometers for measuring metal pollutants in water - Confirmed 31/10/1991 - Under revision

R 116 - 2006 : Inductively coupled plasma atomic emission spectrometers for the measurement of metal pollutants in water - Confirmed 31/10/2007

### Projects

p 2: Revision R 100: Atomic absorption spectrometer systems for measuring metal pollutants in water., status: 2 CD

## TC 16/SC 3: Pesticides and other pollutant toxic substances

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ambler.thompson@nist.gov

### P-Members (7)

AUSTRALIA	CROATIA	KAZAKHSTAN
P.R. CHINA	ROMANIA	RUSSIAN FEDERATION
UNITED STATES		

### O-Members (14)

BULGARIA	CUBA	CZECH REPUBLIC
FINLAND	FRANCE	INDONESIA
JAPAN	KOREA (R.)	MONACO
POLAND	SERBIA	SLOVAKIA
SLOVENIA	SPAIN	

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 190      IEC - Commission Electrotechnique Internationale  
IUPAC - International Union of Pure and Applied Chemistry

### Publications

R 82 - 2006 : Gas chromatographic systems for measuring the pollution from pesticides and other toxic substances - Confirmed 31/10/2006  
R 112 - 1994 : High performance liquid chromatographs for measurement of pesticides and other toxic substances - Confirmed 31/10/1994 - Under revision

### Projects

p 2: Revision R 112: High performance liquid chromatographs for measurement of pesticides and other toxic substance., status: no document yet

## TC 16/SC 4: Field measurements of hazardous (toxic) pollutants

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Ambler Thompson  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: ambler.thompson@nist.gov

### P-Members (5)

AUSTRALIA	CROATIA	P.R. CHINA
RUSSIAN FEDERATION	UNITED STATES	

### O-Members (17)

BULGARIA	CUBA	CZECH REPUBLIC
FINLAND	FRANCE	GERMANY
INDONESIA	JAPAN	KOREA (R.)
MONACO	NETHERLANDS	POLAND
ROMANIA	SERBIA	SLOVAKIA
SLOVENIA	SPAIN	

### Liaisons

ISO - Organisation Internationale de Normalisation, TC 158      IUPAC - International Union of Pure and Applied Chemistry

### Publications

R 113 - 1994 : Portable gas chromatographs for field measurements of hazardous chemical pollutants - Confirmed 31/10/1994  
R 123 - 1997 : Portable and transportable X-ray fluorescence spectrometers for field measurement of hazardous elemental pollutants - Confirmed 31/10/1997  
D 22 - 1991 : Guide to portable instruments for assessing airborne pollutants arising from hazardous wastes - Confirmed 01/01/1991 - Under revision

### Projects

p 1: Guide to air sampling devices for toxic chemical pollutants at hazardous waste sites., status: 1 WD  
p 2: FTIR (Fourier transform infrared) spectrometers for measurement of air pollutants, status: 1 CD  
p 3: Revision D 22 (incorporating p 2): Guide to portable instruments for assessing airborne pollutants arising from hazardous wastes., status: no document yet



## **TC 17: Instruments for physico-chemical measurements**

*BIML contact: Luis Mussio*

### **Secretariat**

Prof. Leonid A. Konopelko  
D.I. Mendeleyev Institute for Metrology (VNIIM)  
RUSSIAN FEDERATION  
E-Mail: lkonop@b10.vniim.ru, dab@vniim.ru

### **P-Members (13)**

AUSTRALIA	BRAZIL	CANADA
CUBA	CZECH REPUBLIC	GERMANY
KOREA (R.)	P.R. CHINA	POLAND
ROMANIA	RUSSIAN FEDERATION	SLOVAKIA
UNITED STATES		

### **O-Members (13)**

AUSTRIA	BULGARIA	EGYPT
FINLAND	FRANCE	INDONESIA
IRELAND	JAPAN	NETHERLANDS
NORWAY	SERBIA	SLOVENIA
SPAIN		

### **Liaisons**

ISO - Organisation Internationale de Normalisation  
ICC - Association Internationale des Sciences et  
Technologies Céréalières

IEC - Commission Electrotechnique Internationale

### **Publications**

### **Projects**

## TC 17/SC 1: Humidity

*BIML contact: Luis Mussio*

### Secretariat

Mr. Li Zhanyuan  
NIM, Nationale Institute of Metrology  
P.R. CHINA  
E-Mail: lizhy@nim.ac.cn

Ms. G. Diane Lee  
NIST, National Institute of Standards and Technology  
UNITED STATES  
E-Mail: diane.lee@nist.gov

### P-Members (15)

AUSTRALIA  
CUBA  
GERMANY  
P.R. CHINA  
SERBIA

AUSTRIA  
CZECH REPUBLIC  
JAPAN  
POLAND  
UNITED KINGDOM

BRAZIL  
FRANCE  
NETHERLANDS  
RUSSIAN FEDERATION  
UNITED STATES

### O-Members (10)

BULGARIA  
HUNGARY  
NORWAY  
SPAIN

EGYPT  
INDONESIA  
ROMANIA

FINLAND  
IRELAND  
SLOVAKIA

### Liaisons

ISO - Organisation Internationale de Normalisation, TC  
34/SC 4

ICC - Association Internationale des Sciences et  
Technologies Céréalières

### Publications

R 59 - 1984 : Moisture meters for cereal grains and oilseeds - Confirmed 31/10/2003 - Under revision  
R 92 - 1989 : Wood-moisture meters - Verification methods and equipment: general provisions - Confirmed  
24/09/2010

### Projects

p 1: Revision R 59: Moisture meters for cereal grains and oilseeds., status: 5 CD

## **TC 17/SC 2: Saccharimetry**

*BIML contact: Luis Mussio*

### **Secretariat**

Mr. Anatoliy S. Naidenov  
D.I. Mendeleyev Institute for Metrology (VNIIM)  
RUSSIAN FEDERATION  
E-Mail: lkonop@b10.vniim.ru, dab@vniim.ru

### **P-Members (10)**

BRAZIL	CUBA	FRANCE
GERMANY	KAZAKHSTAN	P.R. CHINA
POLAND	RUSSIAN FEDERATION	UNITED KINGDOM
UNITED STATES		

### **O-Members (11)**

AUSTRIA	BULGARIA	CZECH REPUBLIC
EGYPT	FINLAND	JAPAN
ROMANIA	SERBIA	SLOVAKIA
SLOVENIA	SPAIN	

### **Liaisons**

OIV - Organisation Internationale de la Vigne et du Vin

ISO - Organisation Internationale de Normalisation, TC 93

ICUMSA - International Commission for Uniform Methods  
of Sugar Analysis

### **Publications**

R 14 - 1995 : Polarimetric saccharimeters graduated in accordance with the ICUMSA International Sugar Scale - Confirmed 31/10/2009

R 108 - 1993 : Refractometers for the measurement of the sugar content of fruit juices - Confirmed 31/10/2008

R 124 - 1997 : Refractometers for the measurement of the sugar content of grape musts - Confirmed 31/10/2009

R 142 - 2008 : Automated refractometers: Methods and means of verification - Confirmed 31/10/2008

### **Projects**

## TC 17/SC 3: pH-metry

*BIML contact: Luis Mussio*

### Secretariat

Dr. Igor Maksimov

VNIIFTRI, National Scientific and Research Institute for  
Physical-technical and Radio-technical Measurements  
RUSSIAN FEDERATION

E-Mail: maksimov.igor@aist.go.jp

### P-Members (9)

CUBA  
HUNGARY  
POLAND

CZECH REPUBLIC  
JAPAN  
RUSSIAN FEDERATION

GERMANY  
P.R. CHINA  
UNITED STATES

### O-Members (9)

BULGARIA  
FINLAND  
SLOVAKIA

DENMARK  
ROMANIA  
SLOVENIA

EGYPT  
SERBIA  
SPAIN

### Liaisons

ISO - Organisation Internationale de Normalisation

IEC - Commission Electrotechnique Internationale

IUPAC - International Union of Pure and Applied Chemistry

### Publications

R 54 - 1981 : pH scale for aqueous solutions - Confirmed 31/10/1981 - Under revision

### Projects

p 1: Revision R 54: pH scale for aqueous solutions, status: 1 CD

p 2: Method of carrying out pH-measurements and certification methods of solution for verification of pH-meters., status: no document yet

## TC 17/SC 4: Conductometry

*BIML contact: Luis Mussio*

### Secretariat

Mr. Vladimir I. Suvorov

D.I. Mendeleyev Institute for Metrology (VNIIM)

RUSSIAN FEDERATION

E-Mail: lkonop@b10.vniim.ru, dab@vniim.ru

### P-Members (8)

BRAZIL

P.R. CHINA

SLOVAKIA

CUBA

POLAND

UNITED STATES

CZECH REPUBLIC

RUSSIAN FEDERATION

### O-Members (11)

BELARUS

FINLAND

JAPAN

SLOVENIA

BULGARIA

GERMANY

ROMANIA

SPAIN

EGYPT

HUNGARY

SERBIA

### Liaisons

IEC - Commission Electrotechnique Internationale

IUPAC - International Union of Pure and Applied Chemistry

### Publications

R 56 - 1981 : Standard solutions reproducing the conductivity of electrolytes - Confirmed 31/10/1981 - Under revision

R 68 - 1985 : Calibration method for conductivity cells - Confirmed 31/10/1985 - Under revision

### Projects

p 1: -1: "Traceability of electrolytic conductivity measurements results" (preliminary title of IR), status: no document yet

## TC 17/SC 5: Viscosimetry

*BIML contact: Luis Mussio*

### Secretariat

Dr. Natalia G. Domostroeveva  
D.I. Mendeleyev Institute for Metrology (VNIIM)  
RUSSIAN FEDERATION  
E-Mail: n.g.domostroeveva@vniim.ru, dab@vniim.ru

### P-Members (8)

CZECH REPUBLIC	GERMANY	NETHERLANDS
P.R. CHINA	POLAND	RUSSIAN FEDERATION
SLOVAKIA	UNITED STATES	

### O-Members (12)

AUSTRIA	BULGARIA	CUBA
EGYPT	FINLAND	FRANCE
INDONESIA	JAPAN	ROMANIA
SERBIA	SLOVENIA	SPAIN

### Liaisons

ISO - Organisation Internationale de Normalisation

### Publications

R 69 - 1985 : Glass capillary viscometers for the measurement of kinematic viscosity. Verification method - Confirmed 31/10/1985  
D 17 - 1987 : Hierarchy scheme for instruments measuring the viscosity of liquids - Confirmed 01/01/1987

### Projects

p 1: Reference standard liquids (Newtonian viscosity standard for the calibration and verification of viscometers), status: 2 CD

## **TC 17/SC 6: Gas analysis**

*BIML contact: Luis Mussio*

### **Secretariat**

Dr. Yury A. Kustikov

D.I. Mendeleyev Institute for Metrology (VNIIM)

RUSSIAN FEDERATION

E-Mail: lkonop@b10.rcom.ru, dab@vniim.ru

### **P-Members (9)**

AUSTRALIA

FRANCE

POLAND

BRAZIL

NETHERLANDS

RUSSIAN FEDERATION

CZECH REPUBLIC

P.R. CHINA

UNITED STATES

### **O-Members (13)**

BULGARIA

EGYPT

HUNGARY

SERBIA

SWITZERLAND

CUBA

FINLAND

JAPAN

SLOVAKIA

DENMARK

GERMANY

ROMANIA

SPAIN

### **Liaisons**

ISO - Organisation Internationale de Normalisation, TC 158

IEC - Commission Electrotechnique Internationale

### **Publications**

### **Projects**

## **TC 17/SC 7: Breath testers**

*BIML contact: Luis Mussio*

### **Secretariat**

Mrs. Sophie Vaslin-Reimann  
LNE, Laboratoire National de Métrologie et d'Essais  
FRANCE  
E-Mail: sophie.vaslin-reimann@lne.fr

### **P-Members (17)**

AUSTRALIA	AUSTRIA	BELGIUM
BRAZIL	FRANCE	GERMANY
IRELAND	JAPAN	NETHERLANDS
NORWAY	POLAND	ROMANIA
RUSSIAN FEDERATION	SLOVENIA	TURKEY
UNITED KINGDOM	UNITED STATES	

### **O-Members (11)**

BULGARIA	CANADA	CZECH REPUBLIC
DENMARK	FINLAND	HUNGARY
SERBIA	SLOVAKIA	SOUTH AFRICA
SPAIN	SWITZERLAND	

### **Liaisons**

ISO - Organisation Internationale de Normalisation

IEC - Commission Electrotechnique Internationale

### **Publications**

### **Projects**

- p 1: Revision R 126 Evidential breath analysers., status: 7 CD
- p 2: Test procedures and test report format for the evaluation of portable breath testers used in open air (Annexes to R 126)., status: 7 CD



# **TC 17/SC 8: Instruments for quality analysis of agricultural products**

*BIML contact: Luis Mussio*

## **Secretariat**

Dr. Grahame Harvey  
NMI, National Measurement Institute  
AUSTRALIA  
E-Mail: [grahame.harvey@measurement.gov.au](mailto:grahame.harvey@measurement.gov.au)

## **P-Members (10)**

AUSTRALIA	BRAZIL	CANADA
GERMANY	JAPAN	KOREA (R.)
NEW ZEALAND	RUSSIAN FEDERATION	SLOVAKIA
UNITED STATES		

## **O-Members (4)**

CZECH REPUBLIC	FRANCE	POLAND
SERBIA		

## **Liaisons**

ISO - Organisation Internationale de Normalisation, TC  
34/SC 4

## **Publications**

## **Projects**

p 1: Measuring instruments used for protein determination in grains, status: 2 CD

## **TC 18: Medical measuring instruments**

*BIML contact: Ian Dunmill*

### **Secretariat**

Dr. Stephan Mieke  
PTB Berlin, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: [stephan.mieke@ptb.de](mailto:stephan.mieke@ptb.de)

### **P-Members (7)**

AUSTRIA	GERMANY	JAPAN
KOREA (R.)	RUSSIAN FEDERATION	SAUDI ARABIA
UNITED STATES		

### **O-Members (18)**

AUSTRALIA	BRAZIL	BULGARIA
CUBA	CZECH REPUBLIC	EGYPT
FINLAND	FRANCE	INDONESIA
NETHERLANDS	P.R. CHINA	POLAND
ROMANIA	SERBIA	SLOVAKIA
SLOVENIA	SPAIN	SWITZERLAND

### **Liaisons**

WHO - Organisation Mondiale de la Santé

ISO - Organisation Internationale de Normalisation, TC 172

### **Publications**

R 128 - 2000 : Ergometers for foot crank work - Confirmed 31/10/1999

### **Projects**

p 1: Ophthalmic instruments - Impression and applanation tonometers., status: 4 CD

## **TC 18/SC 1: Blood pressure instruments**

*BIML contact: Ian Dunmill*

### **Secretariat**

Mr. Cui Qiming  
Shanghai Institute of Measurement and Testing  
Technology  
P.R. CHINA  
E-Mail: cuiqm@simt.com.cn

### **P-Members (11)**

AUSTRIA	BRAZIL	CZECH REPUBLIC
GERMANY	JAPAN	P.R. CHINA
POLAND	SERBIA	SLOVAKIA
SLOVENIA	UNITED STATES	

### **O-Members (10)**

AUSTRALIA	BULGARIA	CANADA
FINLAND	INDONESIA	NETHERLANDS
RUSSIAN FEDERATION	SPAIN	SRI LANKA
SWITZERLAND		

### **Liaisons**

WHO - Organisation Mondiale de la Santé

IEC - Commission Electrotechnique Internationale

### **Publications**

R 16 - 1 - 2002 : Mechanical non-invasive sphygmomanometers - Confirmed 31/10/2002 - Under revision  
R 16 - 2 - 2002 : Non-invasive automated sphygmomanometers - Confirmed 31/10/2002 - Under revision

### **Projects**

p 1: Revision of "None-invasive mechanical sphygmomanometers", OIML R 16-1, Approved by the 43rd CIML Meeting on October. 31, 2008, status: 1 CD  
p 2: Revision of "None-invasive sphygmomanometers", OIML R 16-2, Approved by the 43rd CIML Meeting on October. 31, 2008, status: 1 WD

## **TC 18/SC 2: Medical thermometers**

*BIML contact: Ian Dunmill*

### **Secretariat**

### **P-Members (8)**

BRAZIL  
JAPAN  
SPAIN

CZECH REPUBLIC  
RUSSIAN FEDERATION  
UNITED STATES

GERMANY  
SLOVAKIA

### **O-Members (11)**

AUSTRALIA  
INDONESIA  
POLAND  
SRI LANKA

BULGARIA  
NETHERLANDS  
SERBIA  
SWITZERLAND

FINLAND  
P.R. CHINA  
SLOVENIA

### **Liaisons**

ISO - Organisation Internationale de Normalisation

IEC - Commission Electrotechnique Internationale

### **Publications**

R 7 - 1979 : Clinical thermometers, mercury-in-glass with maximum device - Confirmed 31/10/1978 - Under revision

R 114 - 1995 : Clinical electrical thermometers for continuous measurement - Confirmed 31/10/1995

R 115 - 1995 : Clinical electrical thermometers with maximum device - Confirmed 31/10/1995

### **Projects**

p 1: Revision R 7: Clinical thermometers, mercury-in-glass with maximum device., status: 1 CD

p 2: Clinical infrared ear thermometers, status: no document yet

## TC 18/SC 4: Bio-electrical instruments

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Natalia P. Muravskaya  
FSUE VNIIOFI, All-Russian Scientific Research  
Institute for Optical and Physical measurements  
RUSSIAN FEDERATION  
E-Mail: muravskaya-d4@vniiofi.ru

### P-Members (4)

BELARUS	GERMANY	RUSSIAN FEDERATION
UNITED STATES		

### O-Members (13)

AUSTRALIA	BRAZIL	BULGARIA
CZECH REPUBLIC	FINLAND	JAPAN
NETHERLANDS	P.R. CHINA	SERBIA
SLOVAKIA	SLOVENIA	SPAIN
SRI LANKA		

### Liaisons

IEC - Commission Electrotechnique Internationale

### Publications

R 89 - 1990 : Electroencephalographs - Metrological characteristics - Methods and equipment for verification - Confirmed 31/10/1990 - Under revision  
R 90 - 1990 : Electrocardiographs - Metrological characteristics - Methods and equipment for verification - Confirmed 31/10/1990 - Under revision

### Projects

p 1: Electrodes for electrocardiographs and electroencephalographs - Methods and means for verification., status: 1 CD  
p 2: Electrocardioscopes - Metrological characteristics - Methods and means for verification., status: 1 CD  
p 3: Digital electrocardiographs and electrocardioscopes - Metrological characteristics - Methods and means for verification., status: 2 CD  
p 4: Revision R 90: Electrocardiographs including Test report format 'developed earlier)..., status: 2 CD  
p 5: Analyzing electrocardiographs. Metrological requirements. Methods and means of verification., status: no document yet  
p 6: Revision R 89: Electroencephalographs - Metrological characteristics - Methods and equipment for verification., status: 1 WD

## TC 18/SC 5: Measuring instruments for medical laboratories

*BIML contact: Ian Dunmill*

### Secretariat

Dr. Rainer Macdonald  
PTB Berlin, Physikalisch-Technische Bundesanstalt  
GERMANY  
E-Mail: Rainer.Macdonald@ptb.de

### P-Members (5)

AUSTRIA	GERMANY	RUSSIAN FEDERATION
SLOVAKIA	UNITED STATES	

### O-Members (14)

AUSTRALIA	BELGIUM	BRAZIL
BULGARIA	CZECH REPUBLIC	FINLAND
JAPAN	NETHERLANDS	P.R. CHINA
POLAND	SERBIA	SLOVENIA
SPAIN	SRI LANKA	

### Liaisons

WHO - Organisation Mondiale de la Santé	ISO - Organisation Internationale de Normalisation
IEC - Commission Electrotechnique Internationale	IFCC - International Federation of Clinical Chemistry

### Publications

R 26 - 1978 : Medical syringes - Confirmed 31/10/1973 - Under revision  
R 78 - 1989 : Westergren tubes for measurement of erythrocyte sedimentation rate - Confirmed 31/10/1989  
R 135 - 2004 : Spectrophotometers for medical laboratories - Confirmed 31/10/2004

### Projects

p 1: Electronic blood cell counting chambers., status: no document yet  
p 4: Revision R 26: Medical syringes., status: 4 CD