

OIML technical activities

- ▶ 2001 Review
- ▶ 2002 Forecasts

Activités techniques de l'OIML

- ▶ Rapport 2001
- ▶ Prévisions 2002

The information given on pages 30–36 is based on 2001 annual reports submitted by OIML secretariats.

Work projects are listed for each **active** technical committee and sub-committee that produced and/or circulated a WD or CD during 2001, together with the state of progress at the end of 2001 and projections for 2002, where appropriate.



Les informations données en pages 30–36 sont basées sur les rapports annuels de 2001, fournis par les secrétariats OIML. Les thèmes de travail sont donnés pour chaque comité technique ou sous-comité **actif** qui a produit et/ou distribué un WD ou un CD pendant 2001, avec l'état d'avancement à la fin de 2001 et les prévisions pour 2002, si approprié.

KEY TO ABBREVIATIONS USED

WD	Working draft (Preparatory stage) <i>Projet de travail (Stade de préparation)</i>
CD	Committee draft (Committee stage) <i>Projet de comité (Stade de comité)</i>
DR/DD/DV	Draft Recommendation/Document/Vocabulary (Approval stage) <i>Projet de Recommandation/Document/Vocabulaire (Stade d'approbation)</i>
Vote	CIML postal vote on the draft <i>Vote postal CIML sur le projet</i>
Approval	Approval or submission to CIML/Conference for approval <i>Approbation ou présentation pour approbation par CIML/Conférence</i>
R/D/V	International Recommendation/Document/Vocabulary (Publication stage) For availability: see list of publications <i>Recommandation/Document/Vocabulaire International (Stade de publication)</i> <i>Pour disponibilité: voir liste des publications</i>
Postponed	Development of project suspended pending completion of relevant document by other international organization(s) <i>Développement du projet suspendu en attendant l'achèvement d'un document correspondant par une (d')autre(s) organisation(s) internationale(s)</i>

OIML TECHNICAL ACTIVITIES	2001	2002
<p>TC 2 Units of measurement</p> <ul style="list-style-type: none"> Amendment* D 2: Legal units of measurement *(harmonized with resolution of 22nd CGPM (Paris, 1999)) 	WD	1 CD
<p>TC 3 Metrological control</p> <ul style="list-style-type: none"> Revision D 1: Law on metrology 	WD	1 CD
<p>TC 3/SC 1 Pattern approval and verification</p> <ul style="list-style-type: none"> Initial verification of measuring instruments utilizing the manufacturer's quality system (D 27) 	D	-
<p>TC 3/SC 2 Metrological supervision</p> <ul style="list-style-type: none"> Revision D 9: Principles of metrological supervision 	2 CD	3 CD/DD
<p>TC 3/SC 3 Reference materials</p> <ul style="list-style-type: none"> Revision D 18: General principle of the use of certified reference materials in measurements 	Vote	D
<p>TC 3/SC 4 Application of statistical methods</p> <ul style="list-style-type: none"> Applications of statistical methods for measuring instruments in legal metrology 	WD	1 CD
<p>TC 3/SC 5 Conformity assessment</p> <ul style="list-style-type: none"> Mutual acceptance arrangement on OIML type evaluations Expression of uncertainty in measurement in legal metrology applications OIML Certificate System for Measuring Instruments OIML procedures for peer review of laboratories to enable mutual acceptance of test results and OIML certificates of conformity Checklists for issuing authorities and testing laboratories carrying out OIML type evaluations 	8 CD WD 2 CD WD 2 CD	DD 1 CD DD/Vote 1 CD DD
<p>TC 4 Measurement standards and calibration and verification devices</p> <ul style="list-style-type: none"> Revision D 5: Principles for establishment of hierarchy systems for measuring instruments Revision D 6 + D 8: Measurement standards. Requirements and documentation 	1 CD (Questionnaire on revision) 2 CD	2 CD/DD DD/Vote

OIML TECHNICAL ACTIVITIES	2001	2002
<ul style="list-style-type: none"> Revision D 10: Guidelines for the determination of calibration intervals of measuring equipment Principles for selection and expression of metrological characteristics of standards and devices used for calibration and verification 	DD (Developed by ILAC) WD	DD/Vote 1 CD
TC 5/SC 1 Electronic instruments		
<ul style="list-style-type: none"> Revision D 11: General requirements for electronic measuring instruments 	WD	1 CD
TC 5/SC 2 Software		
<ul style="list-style-type: none"> Software in legal metrology 	WD	WD/1 CD
TC 6 Prepackaged products		
<ul style="list-style-type: none"> Revision R 87: Net content in packages 	2 CD	3 CD/DR
TC 7 Measuring instruments for length and associated quantities		
<ul style="list-style-type: none"> Revision R 35: Material measures for length for general use 	WD	1 CD
TC 7/SC 1 Measuring instruments for length		
<ul style="list-style-type: none"> Revision R 30: End standards of length (gauge blocks) 	WD	1 CD
TC 7/SC 3 Measurement of areas		
<ul style="list-style-type: none"> Instruments for measuring the areas of leather 		WD/1 CD
TC 7/SC 4 Measuring instruments for road traffic		
<ul style="list-style-type: none"> Electronic taximeters 	WD	1 CD
TC 8 Measurement of quantities of fluids		
<ul style="list-style-type: none"> Vessels for public use (Combined revision of: R 4: Volumetric flasks (one mark) in glass; R 29: Capacity serving measures; R 45: Casks and barrels; and R 96: Measuring container bottles) 	WD	WD/1 CD



OIML TECHNICAL ACTIVITIES	2001	2002
TC 8/SC 2 Static mass measurement		
• Annex to R 125: Test report format for evaluation of mass measuring systems for liquids in tanks		WD
TC 8/SC 3 Dynamic volume measurement (liquids other than water)		
• Revision R 86: Drum meters for alcohol and their supplementary devices		WD
• Revision R 118: Testing procedures and test report format for pattern evaluation of fuel dispensers for motor vehicles	2 CD	3 CD
• Revision R 117: Measuring systems for liquids other than water (combined with revision R 105)	WD	1 CD
TC 8/SC 4 Dynamic mass measurement (liquids other than water)		
• Revision R 105: Direct mass flow measuring systems for quantities of liquids (with the intention of incorporating R 105 into R 117)	WD	1 CD
TC 8/SC 5 Water meters		
• Water meters intended for the metering of cold water (including requirements for electronic devices) (R 49-1)	-	Amended R 49-1 to be published
• R 49-2: Test procedures	Approval	R
• R 49-3: Test report format	WD	1 CD/2 CD
TC 8/SC 6 Measurement of cryogenic liquids		
• Annex D to R 81: Test report format	R (Publishing delayed)	R
TC 8/SC 7 Gas metering		
• Metering systems for gaseous fuel	2CD	3 CD/DR
• Compressed gaseous fuel measuring systems for vehicles	2 CD	3 CD/DR
TC 8/SC 8 Gas meters		
• Combined revision of R 6, R 31 and R 32	WD	1 CD
TC 9 Instruments for measuring mass and density		
• Revision R 74: Electronic weighing instruments	1 CD	2 CD (Depending on progress of revision D 11)

OIML TECHNICAL ACTIVITIES	2001	2002
TC 9/SC 1 Nonautomatic weighing instruments		
• Amendment to or revision R 76: Nonautomatic weighing instruments		WD
TC 9/SC 2 Automatic weighing instruments		
• Automatic instruments for weighing road vehicles in motion Part A - Total vehicle weighing	Vote	Approval
• Part A - Annex C: Test report format	1 CD	2 CD/DR
• Automatic instruments for weighing road vehicles in motion Part B - Axle weighing	1 CD	2 CD/DR
• Part B - Annex C: Test report format		WD
• Revision R 51: Automatic catchweighing instruments	2 CD	DR/Vote
• Revision R 61: Automatic gravimetric filling instruments	WD	1 CD
TC 9/SC 3 Weights		
• Revision R 111: Weights of accuracy classes $E_1, E_2, F_1, F_2, M_1, M_2, M_3$ plus test procedures and test report format (including requirements of R 47: Standard weights for testing high capacity weighing machines)	2 CD	DR/vote
• Revision R 33: Conventional value of the result of weighing in air	1 CD	2 CD
TC 9/SC 4 Densities		
• Hierarchy scheme for density measuring instruments	1 CD	2 CD/DR
TC 10/SC 1 Pressure balances		
• Pressure transducers with uniform output signal	2 CD	3 CD/DR
TC 10/SC 2 Pressure gauges with elastic sensing elements		
• Pressure transmitters with elastic sensing elements	1 CD	2 CD
• Revision R 101: Indicating and recording pressure gauges, vacuum gauges and pressure vacuum gauges with elastic sensing elements (ordinary instruments)	2 CD	3 CD
• Revision R 109: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)	2 CD	3 CD
TC 10/SC 4 Material testing machines		
• Requirements for force measuring instruments for verifying material testing machines	WD	WD/1 CD

OIML TECHNICAL ACTIVITIES	2001	2002
TC 10/SC 5 Hardness standardized blocks and hardness testing machines		
<ul style="list-style-type: none"> • Rockwell hardness testing machines (combined revision R 11; R 12; R 36 and R 39) 		WD/1 CD
TC 11 Instruments for measuring temperature and associated quantities		
<ul style="list-style-type: none"> • Revision R 75: Heat meters (Part 1: General requirements; Part 2: Type approval and initial verification tests) 	Approval	R
<ul style="list-style-type: none"> • R 75-3: Heat meters. Test report format 		1 CD
TC 11/SC 1 Resistance thermometers		
<ul style="list-style-type: none"> • Revision R 84: Resistance-thermometer sensors made of platinum, copper or nickel (for industrial and commercial use) 	DR	Vote/Approval
TC 11/SC 2 Contact thermometers		
<ul style="list-style-type: none"> • R 133: Liquid-in-glass thermometers 	Approval	R
TC 11/SC 3 Radiation thermometers		
<ul style="list-style-type: none"> • Revision R 48: Tungsten ribbon lamps for calibration of optical pyrometers 	2 CD	DR
<ul style="list-style-type: none"> • Standard black-body radiator for the temperature range from – 50 °C to 3000 °C 	WD	1 CD
TC 12 Instruments for measuring electrical quantities		
<ul style="list-style-type: none"> • Revision R 46: Active electrical energy meters for direct connection of class 2 	WD	WD/1 CD
TC 13 Measuring instruments for acoustics and vibration (Secretariat of TC 13 vacant)		
<ul style="list-style-type: none"> • Octave-band and fractional octave-band filters (R 130) 	R	-
<ul style="list-style-type: none"> • Revision R 58 and R 88 	Waiting for IEC progress	Waiting for IEC progress

OIML TECHNICAL ACTIVITIES	2001	2002
TC 15/SC 2 Measuring instruments for ionizing radiations used in industrial processing		
• Polymethylmethacrylate (PMMA) dosimetry system for measuring ionizing radiations absorbed dose in materials and products (R 131)	R	-
• Alanine (EPR) dosimetry system for measuring ionizing radiations absorbed dose in materials and products (R 132)	R	-
TC 16/SC 1 Air pollution		
• Annex to ISO 3930/OIML R 99: Test report format for the evaluation of instruments for measuring vehicle exhaust emissions	1 CD	2 CD
• Continuous measuring instruments for NO _x emissions	WD	1 CD
• Continuous measuring instruments for SO ₂ emissions	WD	1 CD
• Continuous measuring instruments for CO emissions	WD	1 CD
TC 16/SC 2 Water pollution		
• Revision R 100: Atomic absorption spectrometers for measuring metal pollutants in water	WD	1 CD
• Revision R 83: Gas chromatograph/mass spectrometer/data system for analysis of organic pollutants in water	WD	1 CD
• Revision R 116: Inductively coupled plasma atomic emission spectrometers for measurement of metal pollutants in water	WD	1 CD
TC 16/SC 3 Pesticides and other pollutant toxic substances		
• Revision R 82: Gas chromatographs for measuring pollution from pesticides and other toxic substances	1 CD	2 CD
TC 16/SC 4 Field measurements of hazardous (toxic) pollutants		
• Fourier transform infrared spectrometers for measurement of air pollutants	1 CD	2 CD
TC 17/SC 1 Humidity		
• Revision R 59: Moisture meters for cereal grains and oilseeds	WD	1 CD
TC 17/SC 4 Conductometry		
• Revision R 56: Standard solutions reproducing the conductivity of electrolytes	WD	1 CD
• Revision R 68: Calibration method for conductivity cells	WD	1 CD
• Methods of measurement of the conductivity of electrolytic solutions	WD	1 CD

OIML TECHNICAL ACTIVITIES	2001	2002
<p>TC 17/SC 5 Viscometry</p> <ul style="list-style-type: none"> • Reference standard liquids (newtonian viscosity standard for the calibration and verification of viscometers) 	WD	1 CD
<p>TC 17/SC 6 Gas analysis</p> <ul style="list-style-type: none"> • Procedures for calibration of mine methanometers • Procedures for calibration of alarms of combustible gases and vapors 	WD WD	1 CD 1 CD
<p>TC 18/SC 1 Blood pressure instruments</p> <ul style="list-style-type: none"> • Revision R 16: Manometers for instruments for measuring blood pressure (sphygmomanometers) (including Test report format) <p>Note: 2 draft Recommendations developed and approved: R 16-1: Noninvasive mechanical sphygmomanometers R 16-2: Noninvasive automated sphygmomanometers</p>	Approval	R
<p>TC 18/SC 2 Medical thermometers</p> <ul style="list-style-type: none"> • Revision R 7: Clinical thermometers, mercury-in-glass with maximum device 	WD	1 CD
<p>TC 18/SC 4 Bio-electrical measurements</p> <ul style="list-style-type: none"> • Annex to R 90: Test report format for the evaluation of recording electrocardiographs • Digital electrocardiographs and electrocardioscopes 	3 CD WD	(BIML proposes to revise R 90) 1 CD
<p>TC 18/SC 5 Measuring instruments for medical laboratories</p> <ul style="list-style-type: none"> • Light absorption spectrometers for medical laboratories 	2 CD	3 CD/DR