

OIML technical activities

- ▶ 2000 Review
- ▶ 2001 Forecasts

Activités techniques de l'OIML

- ▶ Rapport 2000
- ▶ Prévisions 2001

The information given on pages 34–40 is based on 2000 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 2000, together with the state of progress at the end of 2000 and projections for 2001, where appropriate.



Les informations données en pages 34–40 sont basées sur les rapports annuels de 2000, 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 2000, avec l'état d'avancement à la fin de 2000 et les prévisions pour 2001, 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	2000	2001
TC 1 Terminology		
• Revision V 1: International Vocabulary of Terms in Legal Metrology (VIML)	V	-
TC 2 Units of measurement		
• Amendment* D 2: Legal units of measurement *(harmonized with resolution of 22 nd CGPM (Paris, 1999))	-	1 CD
TC 3 Metrological control		
• Revision D 1: Law on metrology	WD	1 CD
TC 3/SC 1 Pattern approval and verification		
• Initial verification of measuring instruments utilizing the manufacturer's quality system (D 27)	Vote	D
TC 3/SC 2 Metrological supervision		
• Revision D 9: Principles of metrological supervision	1 CD	2 CD
TC 3/SC 3 Reference materials		
• Revision D 18: General principle of the use of certified reference materials in measurements	2 CD	Vote
TC 3/SC 4 Application of statistical methods		
• Applications of statistical methods for measuring instruments in legal metrology	WD	1 CD
TC 3/SC 5 Conformity assessment		
• Mutual acceptance agreement on OIML pattern evaluations	7 CD	DD
• Expression of uncertainty in measurement in legal metrology applications	WD	1 CD
• OIML Certificate System for Measuring Instruments	1 CD	2 CD/DD
• Interpretation document for application of ISO DIS 17025 in the assessment of laboratories performing pattern evaluation tests	WD	1 CD
• Interpretation document for application of ISO/IEC Guide 65 in the assessment of legal metrology certification bodies	WD	1 CD
• Peer review for assessing the competence of legal metrology testing laboratories and certifying bodies for pattern evaluation	WD	1 CD
• Checklists for issuing authorities and testing laboratories carrying out OIML type evaluations	-	1 CD

OIML TECHNICAL ACTIVITIES	2000	2001
TC 4 Measurement standards and calibration and verification devices		
• Revision D 5: Principles for establishment of hierarchy systems for measuring instruments	I CD	2 CD
• Revision D 6 + D 8: Measurement standards. Requirements and documentation	I CD	2 CD
TC 5/SC 1 Electronic instruments		
• Revision D 11: General requirements for electronic measuring instruments	WD	I CD
TC 5/SC 2 Software		
• Software in legal metrology	-	WD
TC 6 Prepackaged products		
• Revision R 87: Net content in packages	2 CD	3 CD/DR
TC 7 Measuring instruments for length and associated quantities		
• Revision R 35: Material measures for length for general use	WD	I CD
TC 7/SC 1 Measuring instruments for length		
• Revision R 30: End standards of length (gauge blocks)	WD	I CD
TC 7/SC 4 Measuring instruments for road traffic		
• Electronic taximeters	-	WD/I CD
TC 7/SC 5 Dimensional measuring instruments		
• Multi-dimensional measuring instruments (R 129)	R	-
TC 8 Measurement of quantities of fluids		
• 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	I CD

OIML TECHNICAL ACTIVITIES	2000	2001
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 118: Testing procedures and test report format for pattern evaluation of fuel dispensers for motor vehicles	1 CD	2 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)	R	-
• R 49-2: Test procedures	2 CD	3 CD/DR
• R 49-3: Test report format	WD	1 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	2 CD	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
TC 9 Instruments for measuring mass and density		
• Revision R 60: Metrological regulation for load cells (including Test report format)	R	-
• Revision R 74: Electronic weighing instruments	1 CD	2 CD

OIML TECHNICAL ACTIVITIES	2000	2001
TC 9/SC 1 Nonautomatic weighing instruments		
• Amendment to R 76: Nonautomatic weighing instruments	WD	1 CD
TC 9/SC 2 Automatic weighing instruments		
• Automatic instruments for weighing road vehicles in motion (Part A - total vehicle weighing) (Part B - axle weighing)	3 CD -	4 CD WD/1 CD
• Revision R 51: Automatic catchweighing instruments	WD	1 CD
• 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	WD	1 CD
• Revision R 52: Hexagonal weights, ordinary accuracy class from 100 g to 50 kg	-	1 CD
TC 9/SC 4 Densities		
• Hierarchy scheme for density measuring instruments	1 CD	2 CD
TC 10/SC 1 Pressure balances		
• Pressure transducers with uniform output signal	2 CD	3 CD
TC 10/SC 2 Pressure gauges with elastic sensing elements		
• Pressure transmitters with elastic sensing elements	1 CD	1 CD/2 CD
• Revision R 101: Indicating and recording pressure gauges, vacuum gauges and pressure vacuum gauges with elastic sensing elements (ordinary instruments)	WD	1 CD
• Revision R 109: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)	WD	1 CD
TC 10/SC 4 Material testing machines		
• Force measuring systems of material testing machines (R 65) (Revision R 65 combining requirements of R 64)	R	-
• Requirements for force measuring instruments for verifying material testing machines	-	WD

OIML TECHNICAL ACTIVITIES	2000	2001
<p>TC 10/SC 6 Strain gauges</p> <ul style="list-style-type: none"> Revision R 62: Performance characteristics of metallic resistance strain gauges 	-	1 CD
<p>TC 11 Instruments for measuring temperature and associated quantities</p> <ul style="list-style-type: none"> Revision R 75: Heat meters (Part 1: General requirements; Part 2: Type approval and initial verification tests) 	2 CD	3 CD/DR
<p>TC 11/SC 1 Resistance thermometers</p> <ul style="list-style-type: none"> Revision R 84: Resistance-thermometer sensors made of platinum, copper or nickel (for industrial and commercial use) 	2 CD	DR
<p>TC 11/SC 2 Contact thermometers</p> <ul style="list-style-type: none"> Liquid-in-glass thermometers 	2 CD	DR
<p>TC 11/SC 3 Radiation thermometers</p> <ul style="list-style-type: none"> Revision R 48: Tungsten ribbon lamps for calibration of optical pyrometers Standard black-body radiator for the temperature range from – 50 °C to 3000 °C 	1 CD WD	2 CD 1 CD
<p>TC 12 Instruments for measuring electrical quantities</p> <ul style="list-style-type: none"> Revision R 46: Active electrical energy meters for direct connection of class 2 	WD	WD/1 CD
<p>TC 13 Measuring instruments for acoustics and vibration (Secretariat of TC 13 vacant)</p> <ul style="list-style-type: none"> Octave-band and fractional octave-band filters (R 130) Revision R 58 and R 88 	Approval Postponed	R Waiting for IEC progress
<p>TC 15/SC 2 Measuring instruments for ionizing radiations used in industrial processing</p> <ul style="list-style-type: none"> Polymethylmethacrylate (PMMA) dosimetry system for measuring ionizing radiations absorbed dose in materials and products (R 131) Alanine (EPR) dosimetry system for measuring ionizing radiations absorbed dose in materials and products (R 132) 	Approval Approval	R R

OIML TECHNICAL ACTIVITIES	2000	2001
TC 16/SC 1 Air pollution <ul style="list-style-type: none"> Annex to ISO 3930/OIML R 99: Test report format for the evaluation of instruments for measuring vehicle exhaust emissions 	I CD	2 CD
TC 16/SC 2 Water pollution <ul style="list-style-type: none"> Revision R 100: Atomic absorption spectrometers for measuring metal pollutants in water 	WD	I CD
TC 16/SC 3 Pesticides and other pollutant toxic substances <ul style="list-style-type: none"> Revision R 82: Gas chromatographs for measuring pollution from pesticides and other toxic substances 	I CD	2 CD
TC 16/SC 4 Field measurements of hazardous (toxic) pollutants <ul style="list-style-type: none"> Fourier transform infrared spectrometers for measurement of air pollutants 	WD	I CD
TC 17/SC 1 Humidity <ul style="list-style-type: none"> Revision R 59: Moisture meters for cereal grains and oilseeds 	WD	I CD
TC 17/SC 4 Conductometry <ul style="list-style-type: none"> Revision R 56: Standard solutions reproducing the conductivity of electrolytes Revision R 68: Calibration method for conductivity cells Methods of measurement of the conductivity of electrolytic solutions 	WD WD WD	I CD I CD I CD
TC 17/SC 5 Viscometry <ul style="list-style-type: none"> Reference standard liquids (newtonian viscosity standard for the calibration and verification of viscometers) 	WD	I CD
TC 17/SC 6 Gas analysis <ul style="list-style-type: none"> Procedures for calibration of mine methanometers Procedures for calibration of alarms of combustible gases and vapors 	WD WD	I CD I CD
TC 18 Medical measuring instruments <ul style="list-style-type: none"> Ergometers for foot crank work (including Test report format) (R 128) 	R	-



OIML TECHNICAL ACTIVITIES

TC 18/SC 1 Blood pressure instruments

- Revision R 16: Manometers for instruments for measuring blood pressure (sphygmomanometers) (including Test report format)

Note: 2 draft Recommendations developed:

- R 16-1: Noninvasive mechanical sphygmomanometers
- R 16-2: Noninvasive automated sphygmomanometers

TC 18/SC 4 Bio-electrical measurements

- Annex to R 90: Test report format for the evaluation of recording electrocardiographs

TC 18/SC 5 Measuring instruments for medical laboratories

- Absorption spectrometers for medical laboratories

	2000	2001
TC 18/SC 1 Blood pressure instruments	DR	Approval
TC 18/SC 4 Bio-electrical measurements	2 CD	3 CD/DR
TC 18/SC 5 Measuring instruments for medical laboratories	1 CD	2 CD