

## OIML technical activities

- ▶ 1999 Review
- ▶ 2000 Forecasts

## Activités techniques de l'OIML

- ▶ Rapport 1999
- ▶ Prévisions 2000

The information given on pages 40–44 is based on 1999 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 1999, together with the state of progress at the end of 1999 and projections for 2000, where appropriate.



Les informations données en pages 40–44 sont basées sur les rapports annuels de 1999, 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 1999, avec l'état d'avancement à la fin de 1999 et les prévisions pour 2000, si approprié.

### KEY TO ABBREVIATIONS USED

|                  |   |
|------------------|---|
| <b>WD</b>        | Working draft (Preparatory stage)<br><i>Projet de travail (Stade de préparation)</i>  |
| <b>CD</b>        | Committee draft (Committee stage)<br><i>Projet de comité (Stade de comité)</i>  |
| <b>DR/DD/DV</b>  | Draft Recommendation/Document/Vocabulary (Approval stage)<br><i>Projet de Recommandation/Document/Vocabulaire (Stade d'approbation)</i>   |
| <b>Vote</b>      | CIML postal vote on the draft<br><i>Vote postal CIML sur le projet</i>  |
| <b>Approval</b>  | Approval or submission to CIML/Conference for approval<br><i>Approbation ou présentation pour approbation par CIML/Conférence</i>   |
| <b>R/D</b>       | International Recommendation/Document (Publication stage)<br>For availability: see list of publications<br><i>Recommandation/Document International (Stade de publication)</i><br><i>Pour disponibilité: voir liste des publications</i>                                |
| <b>Postponed</b> | Development of project suspended pending completion of relevant document by other international organization(s)<br><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  | 1999 | 2000    |
|--|------|---------|
| <b>TC 1 Terminology</b>  |      |         |
| <ul style="list-style-type: none"> <li>Revision V 1: International vocabulary of legal metrology (VIML)</li> </ul>   | DV   | Vote    |
| <b>TC 2 Units of measurement</b>   |      |         |
| <ul style="list-style-type: none"> <li>Revision D 2: Legal units of measurement<br/>*(harmonized with SI (BIPM 7<sup>th</sup> edition, 1998))</li> </ul>                         | D    | -       |
| <b>TC 3 Metrological control</b>   |      |         |
| <ul style="list-style-type: none"> <li>Revision D 1: Law on metrology</li> </ul>   | WD   | WD/I CD |
| <b>TC 3/SC 1 Pattern approval and verification</b>   |      |         |
| <ul style="list-style-type: none"> <li>Initial verification of measuring instruments utilizing the manufacturer's quality system</li> </ul>                                      | DD   | Vote    |
| <ul style="list-style-type: none"> <li>Revision D 3: Legal qualification of measuring instruments and inclusion in its text the existing D 19 and D 20</li> </ul>                | -    | I CD    |
| <b>TC 3/SC 2 Metrological supervision</b>  |      |         |
| <ul style="list-style-type: none"> <li>Revision D 9: Principles of metrological supervision</li> </ul>   | I CD | 2 CD    |
| <b>TC 3/SC 3 Reference materials</b>   |      |         |
| <ul style="list-style-type: none"> <li>Revision D 18: General principle of the use of certified reference materials in measurements</li> </ul>                                   | I CD | 2 CD    |
| <b>TC 3/SC 4 Application of statistical methods</b>  |      |         |
| <ul style="list-style-type: none"> <li>Applications of statistical methods for measuring instruments in legal metrology</li> </ul>   | WD   | I CD    |
| <b>TC 3/SC 5 Conformity assessment</b>   |      |         |
| <ul style="list-style-type: none"> <li>Mutual acceptance agreement on OIML pattern evaluations</li> </ul>  | 5 CD | DD      |
| <ul style="list-style-type: none"> <li>Expression of uncertainty in measurement in legal metrology applications</li> </ul>   | WD   | I CD    |
| <ul style="list-style-type: none"> <li>OIML Certificate System for Measuring Instruments</li> </ul>  | WD   | I CD    |
| <ul style="list-style-type: none"> <li>Interpretation document for application of ISO DIS 17025 in the assessment of laboratories performing pattern evaluation tests</li> </ul> | WD   | I CD    |
| <ul style="list-style-type: none"> <li>Interpretation document for application of ISO/IEC Guide 65 in the assessment of legal metrology certification bodies</li> </ul>          | WD   | I CD    |
| <ul style="list-style-type: none"> <li>Peer review for assessing the competence of legal metrology testing laboratories and certifying bodies for pattern evaluation</li> </ul>  | WD   | I CD    |

| OIML TECHNICAL ACTIVITIES   | 1999     | 2000    |
|---|----------|---------|
| <b>TC 5/SC 1 Electronic instruments</b>   |          |         |
| <ul style="list-style-type: none"> <li>Revision D 11: General requirements for electronic measuring instruments</li> </ul>  | WD       | WD/I CD |
| <b>TC 5/SC 2 Software (new SC established by the CIML in 1999)</b>  |          |         |
| <ul style="list-style-type: none"> <li>Software in legal metrology</li> </ul>   | -        | WD      |
| <b>TC 6 Prepackaged products</b>  |          |         |
| <ul style="list-style-type: none"> <li>Revision R 87: Net content in packages</li> </ul>  | I CD     | 2 CD    |
| <b>TC 7/SC 5 Dimensional measuring instruments</b>  |          |         |
| <ul style="list-style-type: none"> <li>Multi-dimensional measuring instruments (R 129)</li> </ul>   | Approval | R       |
| <ul style="list-style-type: none"> <li>Test report format for the evaluation of multi-dimensional measuring instruments</li> </ul>  | DR       | Vote    |
| <b>TC 8 Measurement of quantities of fluids</b>   |          |         |
| <ul style="list-style-type: none"> <li>Laboratory volume measures - Automatic pipettes - D 26</li> </ul>  | D        | -       |
| <ul style="list-style-type: none"> <li>Combined revision of: <ul style="list-style-type: none"> <li>R 4: Volumetric flasks (one mark) in glass;</li> <li>R 29: Capacity serving measures;</li> <li>R 45: Casks and barrels; and</li> <li>R 96: Measuring container bottles</li> </ul> </li> </ul> | WD       | I CD    |
| <b>TC 8/SC 3 Dynamic volume measurement (liquids other than water)</b>  |          |         |
| <ul style="list-style-type: none"> <li>Revision R 118: Testing procedures and test report format for pattern evaluation of fuel dispensers for motor vehicles</li> </ul>  | I CD     | DR      |
| <ul style="list-style-type: none"> <li>Revision R 117: Measuring systems for liquids other than water</li> </ul>  | WD       | I CD    |
| <b>TC 8/SC 4 Dynamic mass measurement (liquids other than water)</b>  |          |         |
| <ul style="list-style-type: none"> <li>Revision R 105: Direct mass flow measuring systems for quantities of liquids (with the intention of incorporating R 105 into R 117)</li> </ul>   | WD       | I CD    |
| <b>TC 8/SC 5 Water meters</b>   |          |         |
| <ul style="list-style-type: none"> <li>Revision R 49: Water meters intended for the metering of cold water (including requirements for electronic devices)</li> </ul>   | Approval | R       |
| <ul style="list-style-type: none"> <li>Annex to R 49: Test procedures and test report format</li> </ul>   | WD       | I CD    |

| OIML TECHNICAL ACTIVITIES  | 1999           | 2000             |
|--|----------------|------------------|
| <b>TC 8/SC 6 Measurement of cryogenic liquids</b> <ul style="list-style-type: none"> <li>Annex to R 81: Test report format</li> </ul>  | Vote           | R                |
| <b>TC 8/SC 7 Gas metering</b> <ul style="list-style-type: none"> <li>Metering systems for gaseous fuel</li> <li>Compressed gaseous fuel measuring systems for vehicles</li> </ul>  | 1 CD<br>WD     | 2 CD<br>1 CD     |
| <b>TC 9 Instruments for measuring mass and density</b> <ul style="list-style-type: none"> <li>Revision R 60: Metrological regulation for load cells (including Test report format)</li> <li>Revision R 74: Electronic weighing instruments</li> </ul>  | Approval<br>WD | R<br>1 CD        |
| <b>TC 9/SC 2 Automatic weighing instruments</b> <ul style="list-style-type: none"> <li>Automatic instruments for weighing road vehicles in motion (Part A - total vehicle weighing)</li> <li>Revision R 51: Automatic catchweighing instruments</li> </ul>   | 3 CD<br>-      | 4CD<br>WD        |
| <b>TC 9/SC 3 Weights</b> <ul style="list-style-type: none"> <li>Revision R 111: Weights of accuracy classes E<sub>1</sub>, E<sub>2</sub>, F<sub>1</sub>, F<sub>2</sub>, M<sub>1</sub>, M<sub>2</sub>, M<sub>3</sub> plus test procedures and test report format (including requirements of R 47: Standard weights for testing high capacity weighing machines)</li> <li>Revision R 33: Conventional value of the result of weighing in air</li> </ul>  | 1 CD<br>WD     | 2 CD<br>1 CD     |
| <b>TC 9/SC 4 Densities</b> <ul style="list-style-type: none"> <li>Hierarchy scheme for density measuring instruments</li> </ul>  | 1 CD           | 2 CD             |
| <b>TC 10/SC 1 Pressure balances</b> <ul style="list-style-type: none"> <li>Pressure transducers with uniform output signal</li> </ul>  | 2 CD           | 3 CD/DR          |
| <b>TC 10/SC 2 Pressure gauges with elastic sensing elements</b> <ul style="list-style-type: none"> <li>Pressure transmitters with elastic sensing elements</li> <li>Revision R 101: Indicating and recording pressure gauges, vacuum gauges and pressure vacuum gauges with elastic sensing elements (ordinary instruments)</li> <li>Revision R 109: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)</li> </ul> | WD<br>-<br>-   | 1 CD<br>WD<br>WD |

| OIML TECHNICAL ACTIVITIES   | 1999      | 2000      |
|---|-----------|-----------|
| <b>TC 10/SC 4 Material testing machines</b>   | Approval  | R         |
| <ul style="list-style-type: none"> <li>Force measuring systems of material testing machines (R 65) (Revision R 65 combining requirements of R 64)</li> </ul>  | WD        | I CD      |
| <ul style="list-style-type: none"> <li>Requirements for force measuring instruments for verifying material testing machines</li> </ul>  |           |           |
| <b>TC 11 Instruments for measuring temperature and associated quantities</b>  |           |           |
| <ul style="list-style-type: none"> <li>Revision R 75: Heat meters</li> </ul>  | I CD      | 2 CD/DR   |
| <b>TC 11/SC 1 Resistance thermometers</b>   |           |           |
| <ul style="list-style-type: none"> <li>Revision R 84: Resistance-thermometer sensors made of platinum, copper or nickel (for industrial and commercial use) and inclusion of metallic electrical platinum, copper and nickel resistance thermometers with extended range</li> </ul> | I CD      | 2 CD      |
| <b>TC 11/SC 3 Radiation thermometers</b>  |           |           |
| <ul style="list-style-type: none"> <li>Revision R 48: Tungsten ribbon lamps for calibration of optical pyrometers</li> </ul>  | WD        | I CD      |
| <b>TC 12 Instruments for measuring electrical quantities</b>  |           |           |
| <ul style="list-style-type: none"> <li>Revision R 46: Active electrical energy meters for direct connection of class 2</li> </ul>   | WD        | I CD      |
| <b>TC 13 Measuring instruments for acoustics and vibration</b>  |           |           |
| <ul style="list-style-type: none"> <li>Annexes to R 122: Test procedures and test report format for the evaluation of equipment for speech audiometry</li> </ul>  | R         | -         |
| <ul style="list-style-type: none"> <li>Octave-band and fractional octave-band filters</li> </ul>  | DR        | Vote      |
| <ul style="list-style-type: none"> <li>Revision R 102: Sound calibrators</li> </ul>   | Postponed | Postponed |
| <ul style="list-style-type: none"> <li>Revision R 103: Measuring instrumentation for human response to vibration</li> </ul>   | Postponed | Postponed |
| <b>TC 14 Measuring instruments used for optics</b>  |           |           |
| <ul style="list-style-type: none"> <li>Amendment and Test report format to R 93: Focimeters</li> </ul>  | R         | -         |

| OIML TECHNICAL ACTIVITIES  | 1999  | 2000 |
|--|---|------|
| <b>TC 15/SC 2 Measuring instruments for ionizing radiations used in industrial processing</b>  |   |      |
| <ul style="list-style-type: none"> <li>• Radiochromic film dosimetry system for ionizing radiation processing of materials and products (R 127)</li> </ul>                   | R   | -    |
| <ul style="list-style-type: none"> <li>• Polymethylmethacrylate (PMMA) dosimetry system for measuring ionizing radiations absorbed dose in materials and products</li> </ul> | 2 CD  | DR   |
| <ul style="list-style-type: none"> <li>• Alanine (EPR) dosimetry system for measuring ionizing radiations absorbed dose in materials and products</li> </ul>                 | 2 CD  | DR   |
| <b>TC 16/SC 1 Air pollution</b>  |   |      |
| <ul style="list-style-type: none"> <li>• Annex to R 99: Test report format for the evaluation of instruments for measuring vehicle exhaust emissions</li> </ul>              | Postponed<br>(pending joint<br>ISO 3930/OIML 99<br>publication)                           | 1 CD |
| <b>TC 18 Medical measuring instruments</b>   |   |      |
| <ul style="list-style-type: none"> <li>• Ergometers for foot crank work (R 128)<br/>(including Test report format)</li> </ul>  | Vote<br>(Test report<br>format)   | R    |
| <b>TC 18/SC 1 Blood pressure instruments</b>   |   |      |
| <ul style="list-style-type: none"> <li>• Revision R 16: Manometers for instruments for measuring blood pressure (sphygmomanometers) plus Test report format</li> </ul>       | (Redrafted in<br>two parts:<br>4 CD<br>(Revision R 16)<br>2 CD<br>(Test report<br>format) | DR   |
| <b>TC 18/SC 4 Bio-electrical measurements</b>  |   |      |
| <ul style="list-style-type: none"> <li>• Annex to R 90: Test report format</li> </ul>  | 1 CD  | 2 CD |
| <b>TC 18/SC 5 Measuring instruments for medical laboratories</b>   |   |      |
| <ul style="list-style-type: none"> <li>• Absorption spectrometers for medical laboratories</li> </ul>  | WD  | 1 CD |