

RESPONSE FORM

Standardization needs and suggestions to EURAMET for consideration in their 2017 EMPIR call

In the frame of the between CEN, CENELEC and EURAMET, CEN and CENELEC have been invited by the EURAMET Management to put forward their testing and measurement needs in **Industry**, in **Fundamental** and in **Pre- and co-normative research**.

Relevant technical groups (sector fora, advisory boards, coordination groups, TCs...) are invited to contribute with:

- a short introduction or an overview paper of their unaddressed standardization needs for testing and measurement, and
- a contact person (secretary, chair, convenor, liaison officer, etc.) whom proposers for the Potential Research Topics can contact,

using the table below, **before 12 December 2016**

Source of the identified need (identification of TC, WG, etc, incl. title)	<input type="checkbox"/> CEN/TC 0/WG 0 <input type="checkbox"/> CLC/TC 0/WG 0 <input type="checkbox"/> ISO/TC 0/SC 0 / WG 0 <input type="checkbox"/> IEC/TC 0/SC 0 / WG 0 <input checked="" type="checkbox"/> Other, namely <i>IEC/ISO/ILAC/IFCC/BIPM/OIML/IUPAP/IUPAC, "JCGM-WG1: Working Group on the Expression of Uncertainty in Measurement (GUM)"</i>
European entity responsible for submission of the need	<i>NPL</i>
Person that can be contacted for more detail (name, e-mail and telephone number)	<i>Prof Nick Ridler (JCGM-WG1 Liaison Officer) nick.ridler@npl.co.uk Tel: + 44 208 943 7116</i>
Unaddressed need (short description)	<i>The internationally leading 'Guide to Uncertainty of Measurement' (GUM) is undergoing a major revision. There is a need for good examples showing best practice in diverse areas of applications.</i>
Type of work (more answers possible)	<input checked="" type="checkbox"/> pre-normative <input type="checkbox"/> SI-units <input checked="" type="checkbox"/> co-normative <input checked="" type="checkbox"/> interlaboratory study <input checked="" type="checkbox"/> testing <input type="checkbox"/> fundamental research <input checked="" type="checkbox"/> measurement <input checked="" type="checkbox"/> market support <input checked="" type="checkbox"/> energy <input checked="" type="checkbox"/> environment
Estimated effort (if known)	Person months: 100
Further explanation of need (TC business plan, road map, formal decision, work item, etc.)	<i>The Joint Committee for Guides in Metrology (JCGM) is composed of eight broadly-based international organizations: IEC, ISO, ILAC, BIPM, OIML, IFCC, IUPAC, IUPAP. The aims of JCGM include the</i>

	<p><i>development and maintenance of guidance documents addressing the general measurement needs of science and technology, and to consider arrangements for their dissemination.</i></p> <p><i>JCGM Working Group 1 (JCGM-WG1) is tasked with maintaining and developing JCGM-100 "Guide to the Expression of Uncertainty in Measurement" (GUM) and its related documents. The GUM is widely applied and is seen as the de-facto standard for uncertainty evaluation in metrology. Downloads of the GUM from the BIPM web-site are typically more than 100,000 per year.</i></p> <p><i>The GUM - which is now undergoing a major revision after 20 years - provides a general framework for uncertainty evaluation. The need for accompanying this document with fully worked-out, real-world, examples has been expressed recently [at the 2015 BIPM workshop on uncertainty, and comments received from the end-user communities] - in particular, addressing current (and emerging) fields in metrology: testing, medicine, imaging, biology, energy, environment, and, accreditation issues for medical/clinical laboratories. JCGM-WG1 addresses this need through the planned document JCGM-110.</i></p> <p><i>Document JCGM-110, which is intended to contain a wide range of examples of best practice, needs to be written by members of JCGM-WG1 in conjunction with substantial input from the end-user community. In order to significantly speed-up the compilation of this document, and to ensure that relevant end-users and stakeholders are involved, an EMPIR-supported project will substantially reduce the timescale for producing relevant examples and will allow a wider range of techniques to be demonstrated. The project will also substantially improve the ability of end-user organisations to participate in the project, as they will have an otherwise unavailable opportunity to develop uncertainty evaluation models and strategies in collaboration with the world-leading JCGM members.</i></p> <p><i>The output of the project should be used directly by JCGM-WG1, which ensures broad take-up and leads to significant European and broader global impact. (It would be helpful if the consortium of the project includes members of JCGM-WG1 as well as relevant end-users.)</i></p> <p><i>Estimated time frame that need shall be fulfilled: 2018-2020</i></p>
Enclosures	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Email address for sending the Response Form:

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