

**Difficulties and Unsolved Problems which Appear in Introduction of the Concept
“Uncertainty of a Measurement” into Practice with the Aim to Harmonize Home and
International Documentary Standards and Norms**

A.S.Yevdokimov, P.J.Kuperman, Ye.V.Markova

RosTest-Moscow, Russia

metrology@rostest.ru

The main difficulty consists in the absence of a single standpoint which, with no contradiction, unites the conceptions “error” and “uncertainty” and, also, the procedures stated in GOST R ISO 5725. The following questions still remain unsolved, i.e.:

- Is it necessary that quality characteristics of measurements be considered in terms of an error or uncertainty simultaneously or independent from each other?
- What is the way in which different metrological and statistical requirements, that considerably differ in home and foreign normative documents, can be coordinated?
- What is the way in which different requirements upon official registration of reports can be coordinated?

These and many other questions of a rather general character have been arisen by the specialists of RosTest-Moscow when they developed the recommending document entitled: “Evaluation of Uncertainty of Measurements in Verification of Mass Standards”. We would like to discuss them at the international seminar “Mathematics, Statistics and Computation to Support Measurement Quality”.