

Program of Workshop for young metrologists
“Evaluations of accuracy and measurement uncertainty”
(12–13 April 2016, BelGIM, Minsk, Belarus)

Subject	Duration
1 Uncertainty of measurements: General principles and approaches:	
1.1 Reasons for establishing the uncertainty concept. General documents for uncertainty evaluation in measurement (GUM, JCGM documents etc.). Revision of GUM	1–1,5 h
1.2 General terms and definitions. Concept and basic principles. Stages of uncertainty evaluation in accordance with JCGM 104:2009	1-1,5 h
2. Uncertainty evaluation	
2.1 Steps-by-step procedure for calculating the uncertainty of measurement (8 steps)	2 h
2.2 Reporting of measurement results including measurement uncertainty	0,5 h
2.3 Example of evaluation of the uncertainty in calibration as given in EA 4/02M:2013	0,5 h
2.4 Automatization of uncertainty evaluation: development of software based on Excel program; realization of the Monte Carlo method	1 h
2.5 Evaluation of uncertainty according to GUM S1/S2 using the Monte Carlo method	1 h
3 Specific aspects of performing calibration and uncertainty evaluation in particular measurement fields:	
3.1 Dimensional measurements	1 h
3.2 Acoustic measurements	1 h
3.3 Electrical measurements	1 h
3.4 Heat measurements	1 h