



Courses for calibration laboratories

## **EMC pulses measurement uncertainty**

<b>Dates</b>	Course: 14. September 2011
<b>Duration</b>	1 day
<b>Host and location</b>	Federal Office of Metrology METAS Lindenweg 50, 3003 Bern-Wabern, Switzerland
<b>Language</b>	The course will be given in English/German/French depending on the participants.
<b>Target audience</b>	The course addresses employees of calibration and metrological laboratories and personnel of emc laboratories, who are required to perform pulse calibrations: examples are burst pulses, ESD pulses, surge pulses.
<b>Objectives</b>	The participants will be able to determine the measurement uncertainty of pulse measurements according to metrological principles.
<b>Content</b>	Aspects of EMC pulses measurements: <ul style="list-style-type: none"><li>• Introduction to the measurement uncertainty</li><li>• Introduction to the S-parameters</li><li>• Typical problems of emc generator measurements</li><li>• Theoretical considerations on pulses</li><li>• Pulse peak uncertainty budget</li><li>• Pulse rise time uncertainty budget</li></ul>
<b>Participants</b>	The number of participants is limited to twelve.
<b>Costs</b>	CHF 1200.-
<b>Cancellation policy</b>	METAS reserves the right to cancel the course if the minimal number of participants is not reached.
<b>Registration</b>	A written registration is necessary, either <ul style="list-style-type: none"><li>▪ through the electronic form on this web page</li><li>▪ by mail to Beatrice Steiner, Course office, Federal Office of Metrology METAS, Lindenweg 50, 3003 Bern-Wabern, Switzerland</li><li>▪ by facsimile to Beatrice Steiner, course office, +41 31 32 33 573</li></ul>



The Federal Office of Metrology (METAS) maintains the national calibration standards of Switzerland, ensures their international recognition and disseminates them with sufficient accuracy to Switzerland's research, economy and society. METAS takes the necessary steps to ensure that the measurements required for the protection and safety of the population and the environment are made correctly and in compliance with the applicable laws and regulations.

### **Contact**

Dr. Frédéric Pythoud  
Head of EMC Laboratory

**Federal Office of Metrology METAS**  
Lindenweg 50, CH-3003 Bern-Wabern  
phone +41 31 32 33 335  
frederic.pythoud@metas.ch  
<http://www.metas.ch/emc>

May 2011