

Practical information about Measurement Uncertainty tutorial session

Time: Sun 09.10.16, start at 12:45

Place: Dorpat conference center

Teacher: Ivo Leito



The aim of the tutorial...

... is to give the participants advice for measurement uncertainty estimation in real-life situation.

Expected background knowledge

The participants are expected to be

- fluent in analytical chemistry,
- have good command of a spreadsheet software package (e.g. MS Excel) and
- have the general knowledge of measurement uncertainty, including the single-lab validation approach (Nordtest approach), which will be the main approach in the tutorial.

The tutorial is not an introductory tutorial to measurement uncertainty and assumes the basic knowledge of measurement uncertainty. The tutorial is especially suitable for those who have taken the Measurement Uncertainty online course <https://sisu.ut.ee/measurement/uncertainty>

If you have not taken that course, please familiarize yourself with the materials at <https://sisu.ut.ee/measurement/uncertainty>, paying especially attention to:

- The basic concepts and tools, [Section 3](#);
- The first uncertainty quantification, [Section 4](#);
- The principles of measurement uncertainty estimation, [Section 5](#);
- Random and systematic effects revisited, [Section 6](#);
- The single-lab validation approach, [Section 10](#).

Being familiar with these things is important for getting maximum benefit from the tutorial.

What to bring with you

Please bring with you a laptop, which you know well (i.e. if possible, your own, not borrowed for this specific day) and where there is a spreadsheet software (e.g. MS Excel) installed.

What you can send in advance

You are very welcome to send in advance (please try to send at least 3 days before the tutorial):

- Your own data from your everyday work, from which you would like to calculate measurement uncertainty. The data must not be confidential as they will be shown to all participants (but of course you can remove the dates, names of customers, etc).
- General questions and problems, which you would like to be addressed during the tutorial.

I cannot guarantee that all the materials and questions sent by you can really be addressed (because of time constraints) but I will do my best to work as much with your data and your questions as possible.

Tentative schedule

12:45 – 15:00 Tutorial, part I

15:00 – 15:20 Snack break

15:20 – 17:00 Tutorial, part II

Organizational questions, suggestions

You are welcome to send all organizational questions and suggestions to: ivo.leito@ut.ee

With all the best wishes and see you at tutorial!

Ivo

Ivo Leito

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<http://tera.chem.ut.ee/~ivo/RD.html>

<http://www.analyticalchemistry.eu/>

<http://akki.ut.ee/ecobalt-2016>