

EURACHEM Workshop on Quality Assurance of Measurements from Field to Laboratory, KES, Espon Finland, 20-21 May 201

MIKES, Espoo Finland, 20-21 May 2013
Organised by MIKES, Eurachem
Finland and Eurachem



Content

- · Presentation of Eurachem
- Introduction to workshop

EURACHEM Workshop on Quality Assurance of Measurements from Field to Laboratory,



Eurachem

a focus for analytical chemistry and quality related issues in Europe



Introduction

- · Eurachem aims and membership
- · Eurachem activities to date
- Recent and forthcoming activities
 - Guidance documents
 - Workshops

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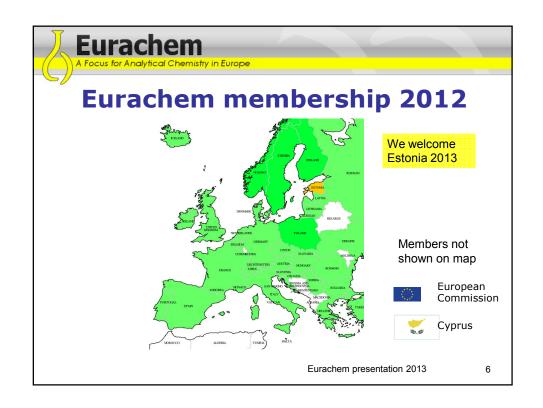


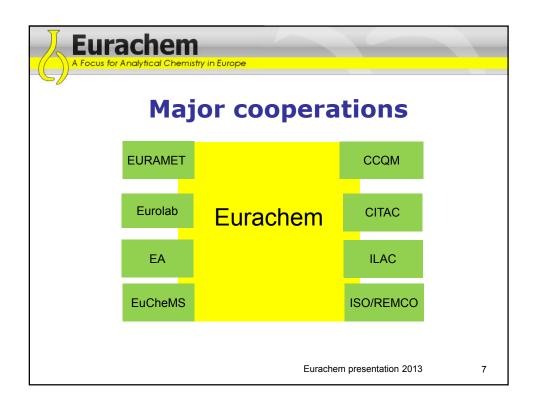
What is Eurachem?

- · A network of national and other organisations
- A focus on analytical quality
 - Validation
 - Uncertainty
 - Traceability
- · Providing authoritative guidance documents
- Organising Workshops and training events
- Primary audience:
 - Laboratories for analytical measurement
 - Accreditation bodies and related organisations

Scope & rules - Memorandum of Understanding www.eurachem.org

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Activities

- Workshops and Training
 - International workshops on analytical QA issues
 - Hosted by members
- Guidance documents
 - Prepared by working groups
 - Disseminated via web and Secretariat
 - Translation and publication by members permitted

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Workshops since year 2000

- Validation, Traceability and Measurement Uncertainty (2000, 2012)
- Education & Training (2004)
- Proficiency Testing (2000, 2003, 2005, 2008, 2011)
- Measurement Uncertainty (2000, 2002, 2008, 2011)
- Reference Materials (2000)

- Sampling (2001, 2008)
- Metrology and QA (2008, 2009, 2010)
- Decision making (2008, 2010)
- Internal Quality Control (2012)
- Quality Assurance of measurements from Field to Laboratory Espoo, Finland 20-21 May 2013
- ...as well as QA and training events in conjunction with General Assembly meetings and in collaboration with other organisations

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Future Eurachem Workshops

- Measurement Quality in conjunction with celebration of 25 year of Eurachem
 - Detailed scope to be decided
 - Lisbon 19-20 May 2014



- 8th Eurachem workshop on proficiency testing in analytical chemistry, microbiology and laboratory medicine: current practices and future directions
 - Berlin 6-9 October 2014

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More recent Guidance Documents

- Use of uncertainty information in compliance assessment (2007)
 The guide is applicable to decisions on compliance with regulatory or manufacturing limits where a decision is made on the basis of a measurement result accompanied by information on the uncertainty associated with the result
- Measurement uncertainty arising from sampling (2007)
 This Guide aims to describe various methods that can be used to estimate the uncertainties arising from the processes of sampling and the physical preparation of samples.
- Terminology in Analytical Measurement: Introduction to VIM 3 (2011)
 This Eurachem Guide discusses a selection of the concepts in VIM 3, focusing on those most likely to be encountered in analytical laboratories
- Selection, Use and Interpretation of Proficiency Testing (PT) Schemes (2nd edition, 2011)
- Quantifying Uncertainty in Analytical Measurement (3rd edition, 2012)
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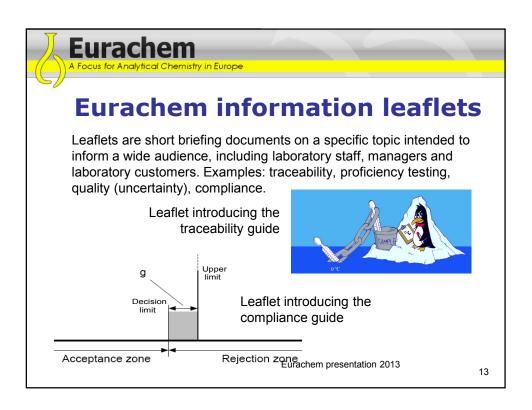


More Guidance Documents

- The Fitness for Purpose of Analytical Methods A Laboratory Guide to Method Validation and Related Topics (1998)
- Quality Assurance for R&D and Non-routine Analysis (1998)
- Selection, Use and Interpretation of Proficiency Testing (PT) Schemes by Laboratories (2000)
- Common Position Paper for the Use of Proficiency Testing as a Tool for Accreditation in Testing (2001)
- Accreditation for Microbiological Laboratories (2002)
- The Selection and use of Reference Materials (2002)
- Accreditation for Chemical Laboratories (2002)
- Traceability in Chemical Measurement (2003)

All Guides are currently available free of charge from <u>www.eurachem.org</u> and several translations are available at national Eurachem websites. Guides were prepared by Eurachem or in cooperation with e.g. CITAC

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Current guidance activities

- Qualitative analysis
 - Guide in preparation on assessing performance in qualitative analysis
- · Validation revision of the current guide
 - 2013 minor revision, update of terminology and references
 - 2015 a new version with additional examples

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Administration

- Change of Chairs (2-year cycle)
 - Chair: Bertil Magnusson (Sweden)
 - Vice chair: Wolfhard Wegscheider (Austria)
 - Past chair: Miloslav Suchanek (Czech republic)
- Secretariat
 - Eurolab/Eurachem Sweden 2012-2014, secretary@eurachem.org
- Website
 - www.eurachem.org

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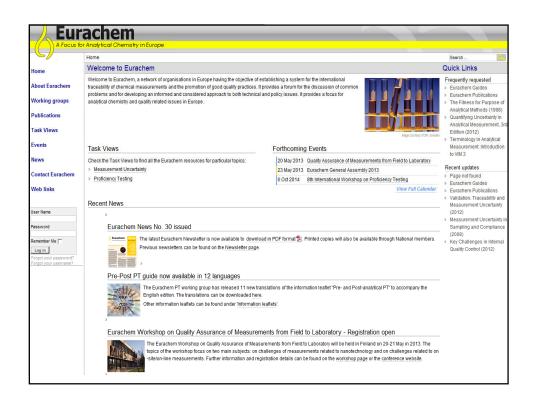


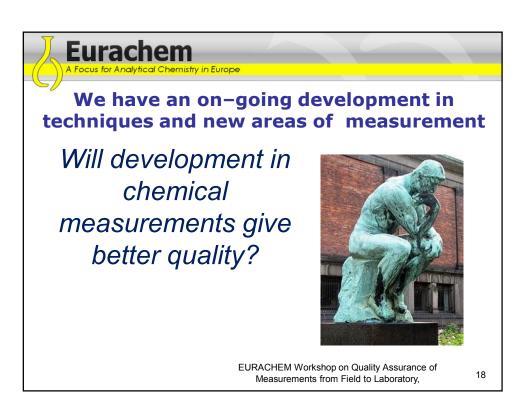
Summary

- · Continuing development of guidance
 - Latest new guide: Quantifying Uncertainty in Analytical Measurement (3rd edition, 2012)
- · International workshops
 - Measurement Quality in conjunction with celebration of 25 year of Eurachem Lisbon 19-20 May 2014
 - 8th Eurachem workshop on proficiency testin chemistry, microbiology and laboratory medipractices and future directions - Berlin 6-9 O



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Workshop focus

The workshop will cover

Quality Assurance

Challenges of measurements in chemical analysis related to

- □ on-site/on-line measurements
- nanotechnology

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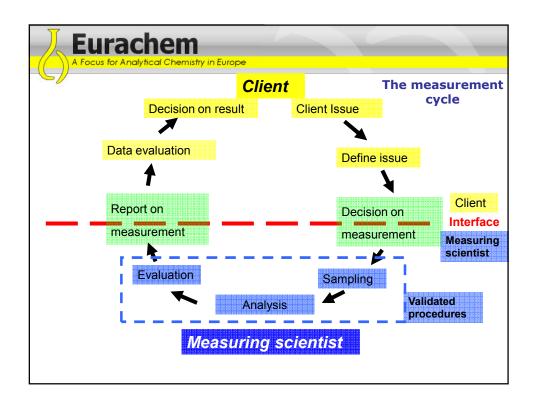
What is quality assuarnce

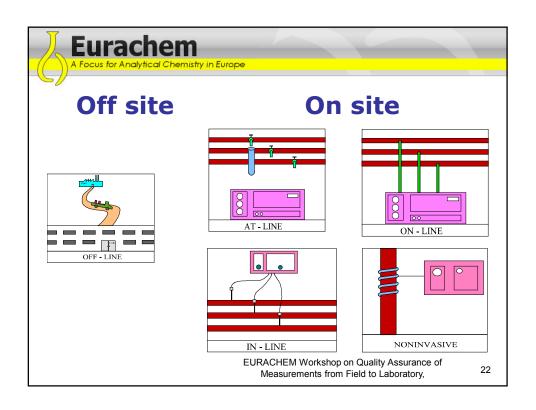
quality assurance is all those planned and systematic actions necessary to provide adequate confidence that an entity will fulfil requirements for quality

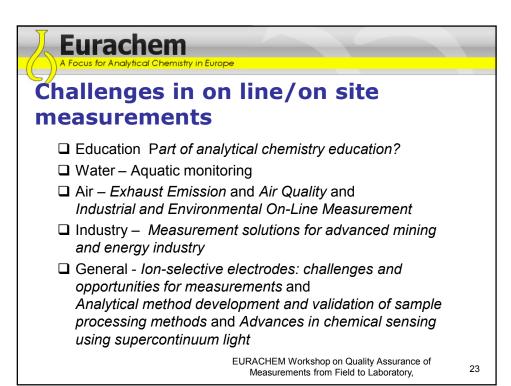
The ISO definition

part of quality management (3.2.8) focused on providing confidence that quality requirements will be fulfilled

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Tomorrow

 Challenges of measurement related to nanotechnology

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We wish you welcome...

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