Introduction

• What is Eurachem
• Eurachem aims and membership
• Eurachem activities
  – Guidance documents
  – Workshops
  – Future activities

Scope & rules - Memorandum of Understanding see www.eurachem.org
Focus for Eurachem is measurement quality from client issue to decision on results.

**What is Eurachem?**

- A network of national and other organisations
- Founded in 1989
- A focus on analytical quality:
  - Traceability of Measurement Results
  - Method Validation
  - Measurement Uncertainty
- Providing guidance documents
- Organising workshops and training events
- Primary audience:
  - Laboratories for analytical measurement
  - Accreditation bodies and related organisations
Eurachem membership

Major cooperations

- EURAMET
- Eurolab
- EA
- EuChemS
- AOAC Europe
- CCQM
- CITAC
- ILAC
- ISO/REMCO
- Eurachem
- Europe
Activities

• **Workshops and Training**
  – International workshops on analytical QA issues
  – Hosted by members

• **Guidance documents**
  – Prepared by working groups
  – Disseminated via web
  – Translation and publication by members permitted

• **Leaflets**

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**Workshops since year 2010**

• Method Validation (2016, 2019)
• Validation, Traceability and Measurement Uncertainty (2012)
• Data – Quality, Analysis, Integrity (2018)
• Accreditation Issues (2019, 2020)
• Internal Quality Control (2012)
• Metrology and QA (2010, 2014)
• QA of measurements from Field to Laboratory (2013)
• Decision making (2010)

... as well as Quality Assurance (QA) and training events in conjunction with General Assembly meetings and in collaboration with other organisations
Future Eurachem activities

2021

• Eurachem “week” 2021 – Prague, Czech Republic
  – Workshop (17-18 May)
  – General Assembly (19-21 May)

• 10th International WS on PT – Windsor, UK
  – 27-30 September 2021

Currently active Working Groups

• Education and Training WG
• Measurement Uncertainty and Traceability WG
• Method Validation WG
• Proficiency Testing WG
• Qualitative Analysis WG
• Sampling Uncertainty WG
• Reference Materials WG
Guidance documents

- Traceability in Chemical Measurement (2nd ed 2019)
- Measurement Uncertainty arising from sampling (2nd ed 2019)
- Setting target measurement uncertainty (2015)
- The Fitness for Purpose of Analytical Methods: A Laboratory Guide to Method Validation and Related Topics, 2nd ed (2014)
- Accreditation for Microbiological Laboratories, 2nd ed (2013)

All Guides are available free of charge from www.eurachem.org and several translations are available at national Eurachem websites. Guides were prepared by Eurachem or in cooperation.

Current guidance activities

- Guides in preparation:
  - Expressing uncertainty in qualitative analysis
- Guides under revision:
  - Terminology in Analytical Measurement (2011)
  - Selection, Use and Interpretation of Proficiency Testing (PT) Schemes by Laboratories (2011)
  - Accreditation for Microbiological Laboratories (2013)
Eurachem information leaflets

Leaflets are short briefing documents on a specific topic intended to inform a wide audience, including laboratory staff, managers and laboratory customers. Examples: traceability, proficiency testing, quality (uncertainty), compliance.

Leaflet introducing the compliance guide

Decision limit

Upper limit

Acceptance zone

Rejection zone

Leaflet introducing the traceability guide

Information leaflets

• Proficiency testing (PT)
  – How to investigate poor performance in proficiency testing (2019)
  – Use of surplus Proficiency Test items (2019)
  – Proficiency testing - How much, and how often? (2017)
  – Selecting the right PT scheme for my laboratory (2015)
  – How can PT help my laboratory? (2013)
  – Pre- and post-analytical PT (2009)
  – PT Schemes and other interlaboratory comparisons (2005)

• Measurement uncertainty and traceability
  – Traceability of Analytical Results (2005)
  – Use of uncertainty information in compliance assessment (2009)
  – Using repeated measurements to improve the standard uncertainty (2015)
  – Treatment of an observed bias (2017)
  – Setting target measurement uncertainty (2018)
Information leaflets & supplements

• **Accreditation**

• **Terminology**
  – You talk, we understand – The way out of the tower of Babel (2016)

Supplements to guides

• Blanks in Method Validation (2019)
• Planning Method Validation Studies (2019)

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Administration 2020-2022

• Change of Chairs (2-year cycle)
  – Chair: Vicki Barwick (UK)
  – Vice chair: Isabelle Vercruysse (Belgium)
  – Past chair: Marina Patriarca (Italy)

• Secretariat
  – LGC, UK
  – secretariat@eurachem.org

• Website: www.eurachem.org
Summary

• Continuing development of guidance
  – Latest guides:
    • Traceability in Chemical Measurement (2nd ed 2019)
    • Measurement Uncertainty arising from sampling (2nd ed 2019)

• Continuing development of leaflets & supplements
  – How to investigate poor performance in proficiency testing (2019)
  – 2 supplements to the “Validation Guide” (2019)

• International workshops in 2020 and 2021:
  – Eurachem “week” 2021 – Prague, 17-21 May 2021
  – 10th PT WS – Windsor, 27-30 September 2021