



Eurachem

A Focus for Analytical Chemistry in Europe

Eurachem



***a focus for analytical chemistry and
quality related issues in Europe***



Eurachem

A Focus for Analytical Chemistry in Europe

Introduction

- Eurachem aims and membership
- Eurachem activities
 - Guidance documents
 - Workshops
- 30 years anniversary

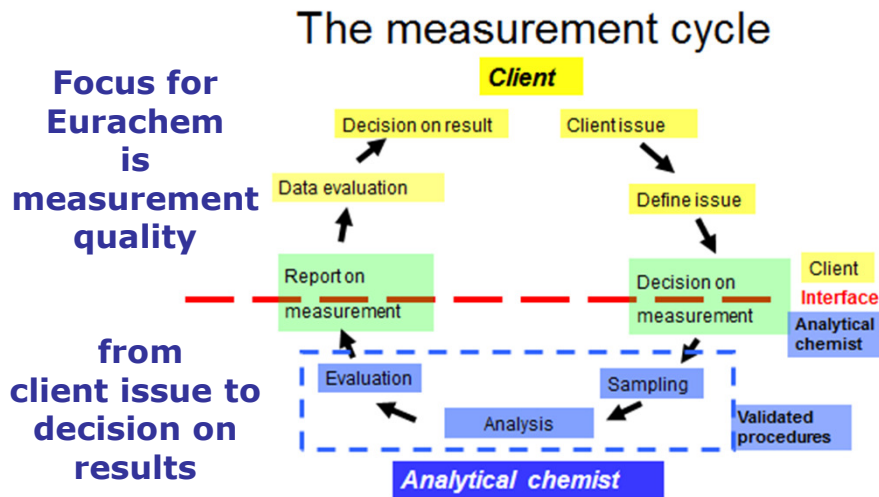


1989-2019

Eurachem

A focus for analytical chemistry in Europe





What is Eurachem?

- A network of national and other organisations
- A focus on analytical quality:
 - Traceability of Measurement Results
 - Method Validation
 - Measurement Uncertainty
- 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 see www.eurachem.org



Eurachem membership



Associate Members
not shown on map



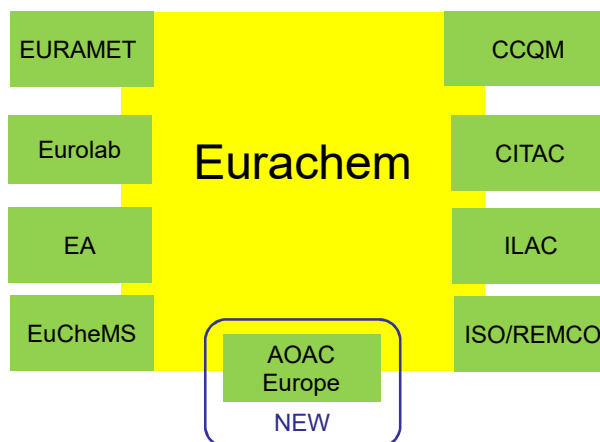
Georgia



Armenia



Major cooperations





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**



Workshops since year 2009

- Method Validation (2016, 2019)
- Validation, Traceability and Measurement Uncertainty (2012)
- Measurement Uncertainty (2008, 2011, 2017, 2019)
- Data – Quality, Analysis, Integrity (2018)
- Accreditation Issues (2019)
- Proficiency Testing (2011, 2014, 2017)
- Internal Quality Control (2012)
- Metrology and QA (2009, 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

- **2020**

- Accreditation of analytical, microbiological and medical laboratories – training event, 20-21 Feb 2020, Cyprus
- Eurachem “week” 2020
 - 25-29 May 2020, Bucharest, Romania
 - Workshop (25-26 May)
 - General Assembly (28-29 May)
- 10th International WS on PT – 12-15 Oct 2020, Windsor, UK



- **2021**

- Eurachem “week” 2021: Prague, Czech Republic, 17-21 May 2021

Currently active Working Groups

- Education and training WG
- Measurement Uncertainty and Traceability WG
- Method Validation WG
- Proficiency Testing WG
- Qualitative analysis and testing WG
- Sampling Uncertainty WG
- Reference Materials WG

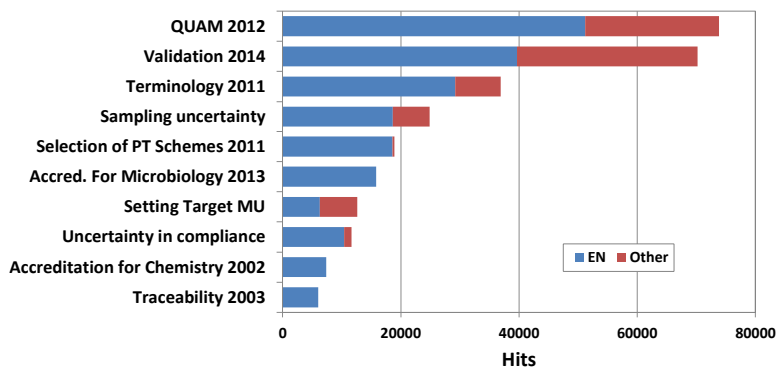
Guidance Documents

- Traceability in Chemical Measurement (2nd ed 2019)
- Measurement Uncertainty arising from sampling (2nd ed 2019)
- Guide to Quality in Analytical Chemistry: An Aid to Accreditation 3rd ed (2016)
- 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)
- Quantifying Uncertainty in Analytical Measurement, 3rd ed (2012)

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



Downloads of Guides

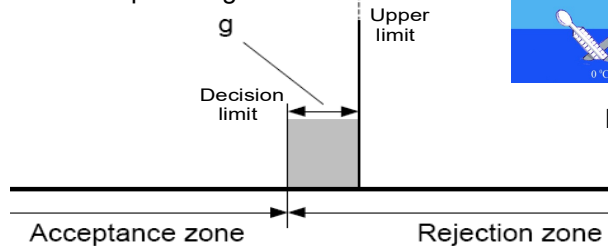


Downloads of Eurachem guides Apr 2016 - Mar 2017
Colour indicates count by language

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



Leaflet introducing the traceability guide

Eurachem information leaflets

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





Eurachem leaflets & supplements

LEAFLETS

- **Accreditation**
 - ISO/IEC 17025:2017 - A New Accreditation Standard (2018)
- **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)



Current guidance activities

- **Guides in preparation:**
 - Expressing uncertainty in qualitative analysis
- **Guides under revision:**
 - The Selection and Use of Reference Materials (2002)
 - Quality Assurance for R&D and Non-routine Analysis (1998)
 - Terminology in Analytical Measurement (2011)
 - Selection, Use and Interpretation of Proficiency Testing (PT) Schemes by Laboratories (2011)
 - Accreditation for Microbiological Laboratories (2013)



Administration 2018-2020

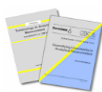
- Change of Chairs (2-year cycle)
 - Chair: Marina Patriarca (Italy)
 - Vice chair: Vicki Barwick (UK)
 - Past chair: David Milde (Czech Republic)
- Secretariat
 - INRIM, Italy
 - secretariat@eurachem.org
- Website: www.eurachem.org



Eurachem Publications

Eurachem publishes guidance documents and information leaflets on a range of issues in quality and accreditation for analytical measurement.

Guides



Eurachem guides typically give detailed technical information about a topic. Guides usually include definitions of terms and concepts, practical advice on achieving quality objectives or requirements, and detailed technical information such as statistical methods, performance characteristics for analytical methods or information on typical uncertainties or performance. Guides often include practical examples. Eurachem Guides are normally aimed at laboratory staff responsible for quality in laboratories. Many Eurachem guides are cited by accreditation agencies as reference documents.

[See all Guides >>](#)

Our website www.eurachem.org

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Twitter

<https://twitter.com/eurachemeurope>



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
 - Use of surplus Proficiency Test items (2019)
 - 2 supplements to the “Validation Guide” (2019)
- International workshops in 2020:
 - Accreditation of analytical, microbiological and medical laboratories – training event, 20-21 Feb 2020, Cyprus
 - Quality assurance for Analytical Laboratories in the University Curriculum – Bucharest, 25-26 May 2020
 - 10th PT WS – Windsor, 12-15 October 2020



Eurachem is people



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