



Eurachem

A Focus for Analytical Chemistry in Europe

Eurachem



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



Introduction

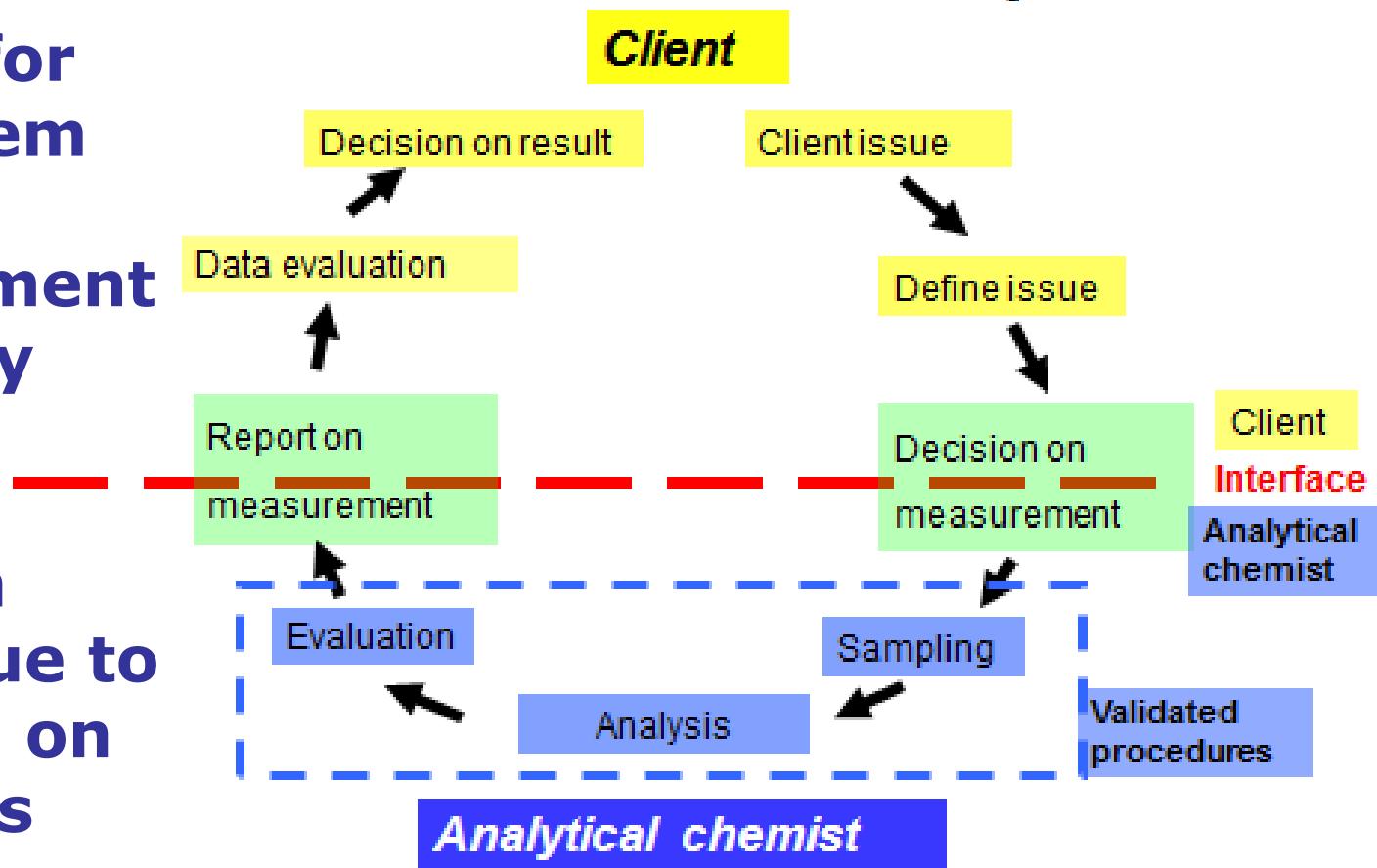
- Eurachem aims and membership
- Eurachem activities
- Recent and forthcoming activities
 - Guidance documents
 - Workshops



The measurement cycle

**Focus for
Eurachem
is
measurement
quality**

**from
client issue to
decision on
results**



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



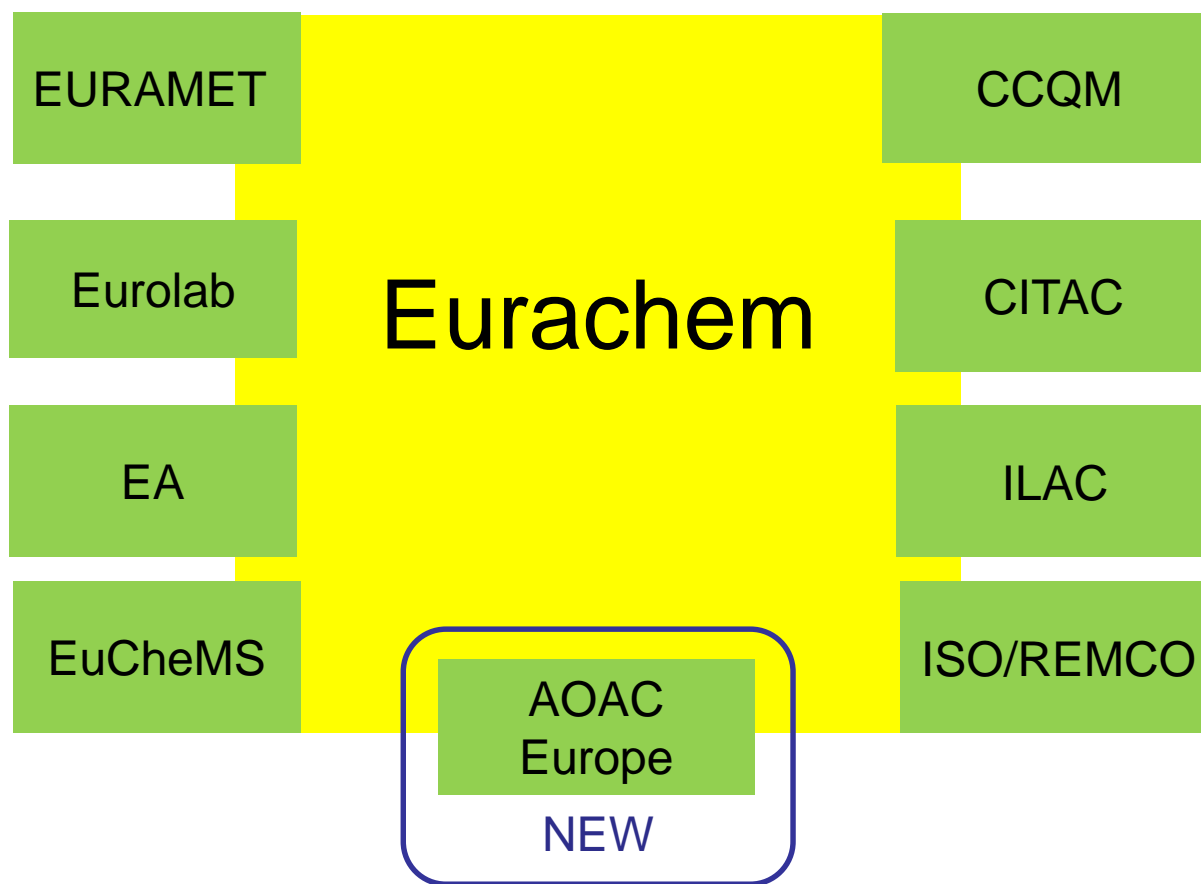
Georgia



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 2006

- Method Validation - Current Practices and Future Challenges (2016)
- Validation, Traceability and Measurement Uncertainty (2012)
- Measurement Uncertainty (2008, 2011, 2017)
- Sampling (2008)
- Proficiency Testing (2008, 2011, 2014)
- Internal Quality Control (2012)
- Metrology and QA (2008, 2009, 2010, 2014)
- QA of measurements from Field to Laboratory (2013)
- Decision making (2008, 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

- Eurachem “week” 2018
 - 14-18 May 2018, Dublin
 - Workshop
 - General Assembly
- Eurachem “week” 2019
 - 20-24 May 2019, Tartu, Estonia
 - Workshop
 - General Assembly

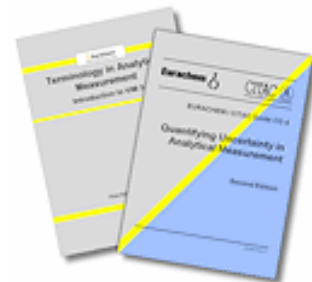


Guidance Documents

- 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)
- Selection, Use and Interpretation of PT Schemes, 2nd ed (2011)
- Terminology in Analytical Measurement (2011)

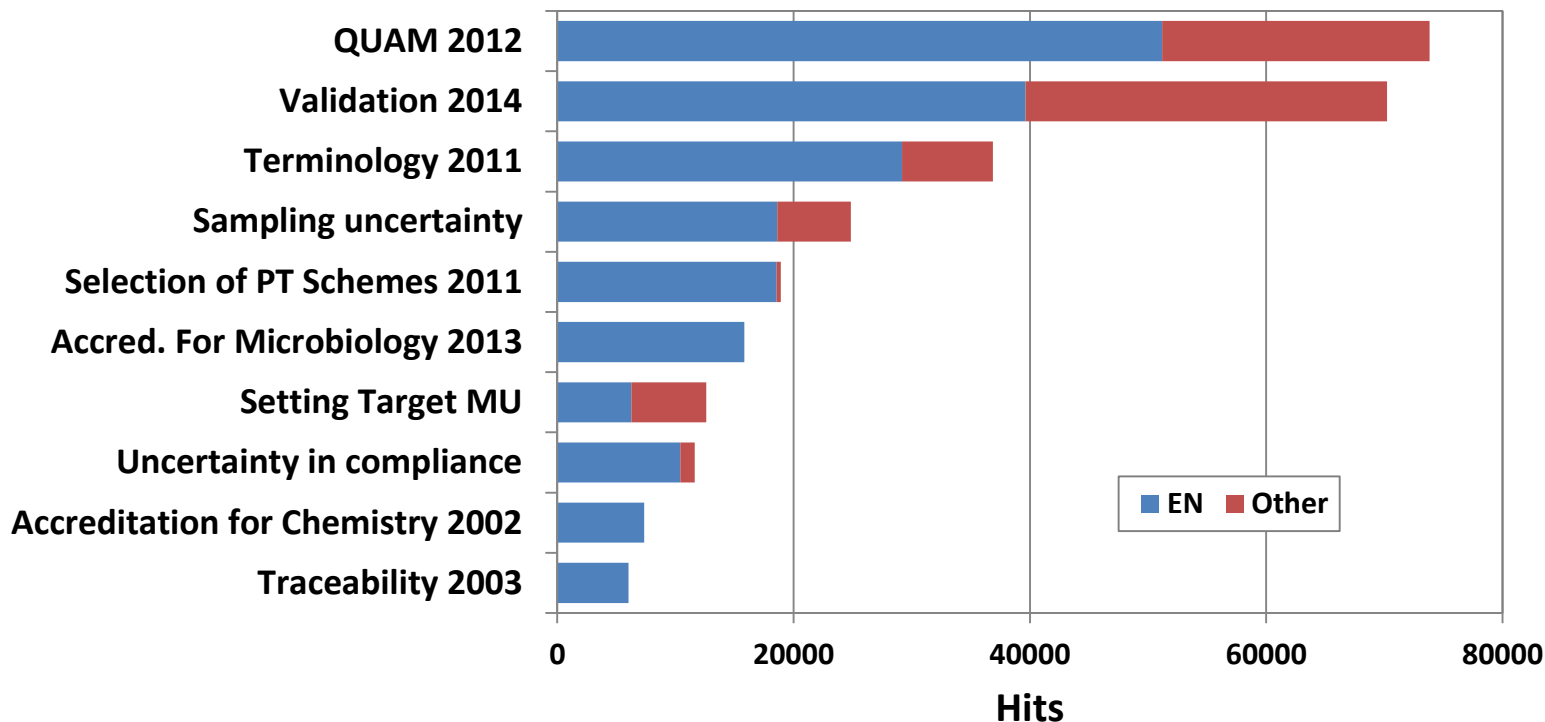
All Guides are available free of charge from www.eurachem.org and several translations are available at national Eurachem websites.

Guides were prepared by Eurachem or in cooperation





Downloads of Guides

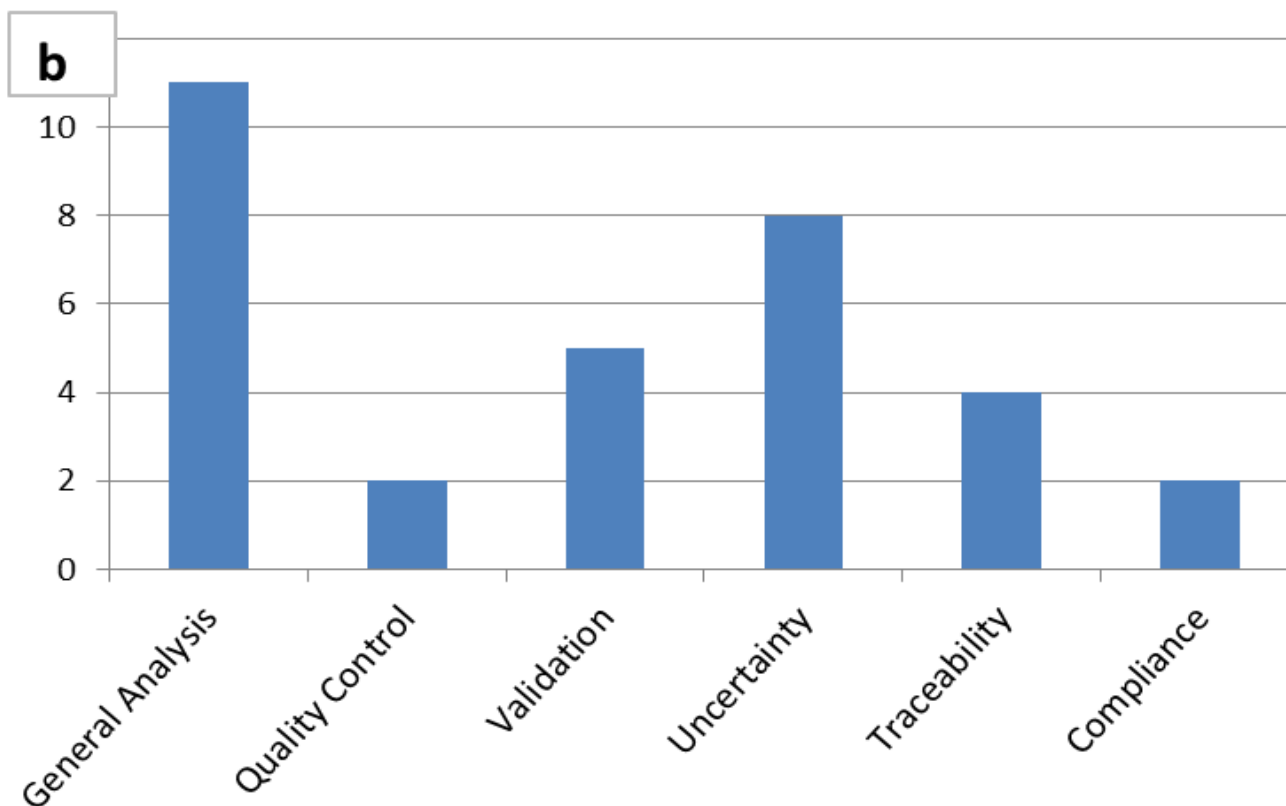


Downloads of Eurachem guides Apr 2016 - Mar 2017

Colour indicates count by language



Impact - References to Eurachem in ISO documents – survey 2013

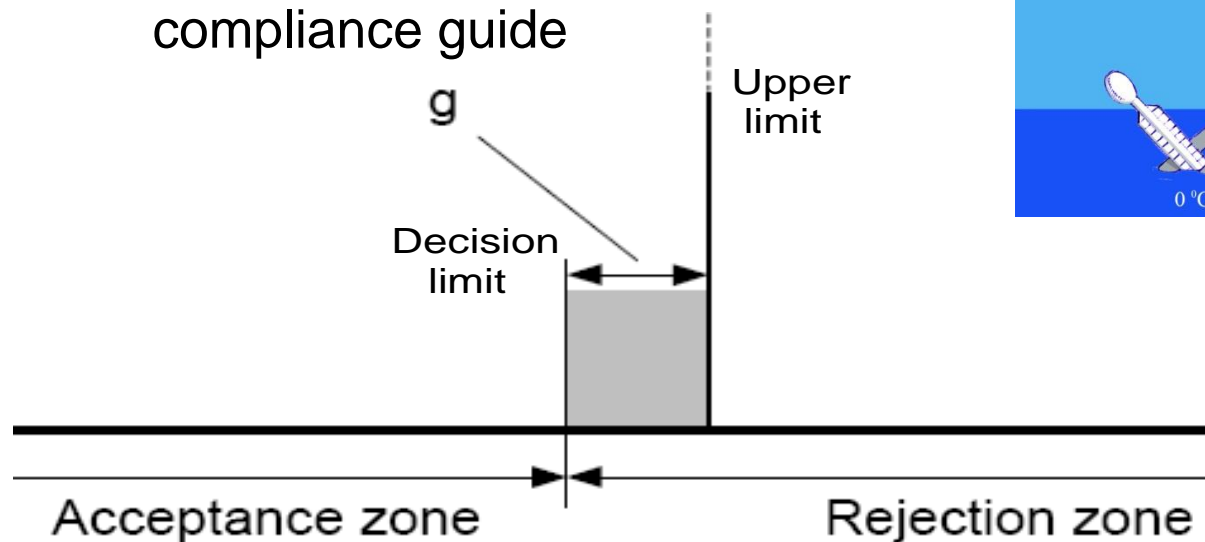




Eurachem information leaflets

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



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





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)
 - Traceability in Chemical Measurement (2003)



Administration 2018-2020

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



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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



Twitter

<https://twitter.com/eurachemeurope>



Summary

- Continuing development of guidance
 - Latest guide: Guide to Quality in Analytical Chemistry: An Aid to Accreditation 3rd ed (2016)
- Continuing development of leaflets
 - New leaflets addressing changes in ISO 17025:2017
- International workshops in the pipeline:
 - Data – Analysis, Quality, Integrity – Dublin, May 2018
 - WS dealing with validation – Tartu, May 2019



Eurachem is people



GA 2016, Gent