



Eurachem

A Focus for Analytical Chemistry in Europe

Eurachem



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



Introduction

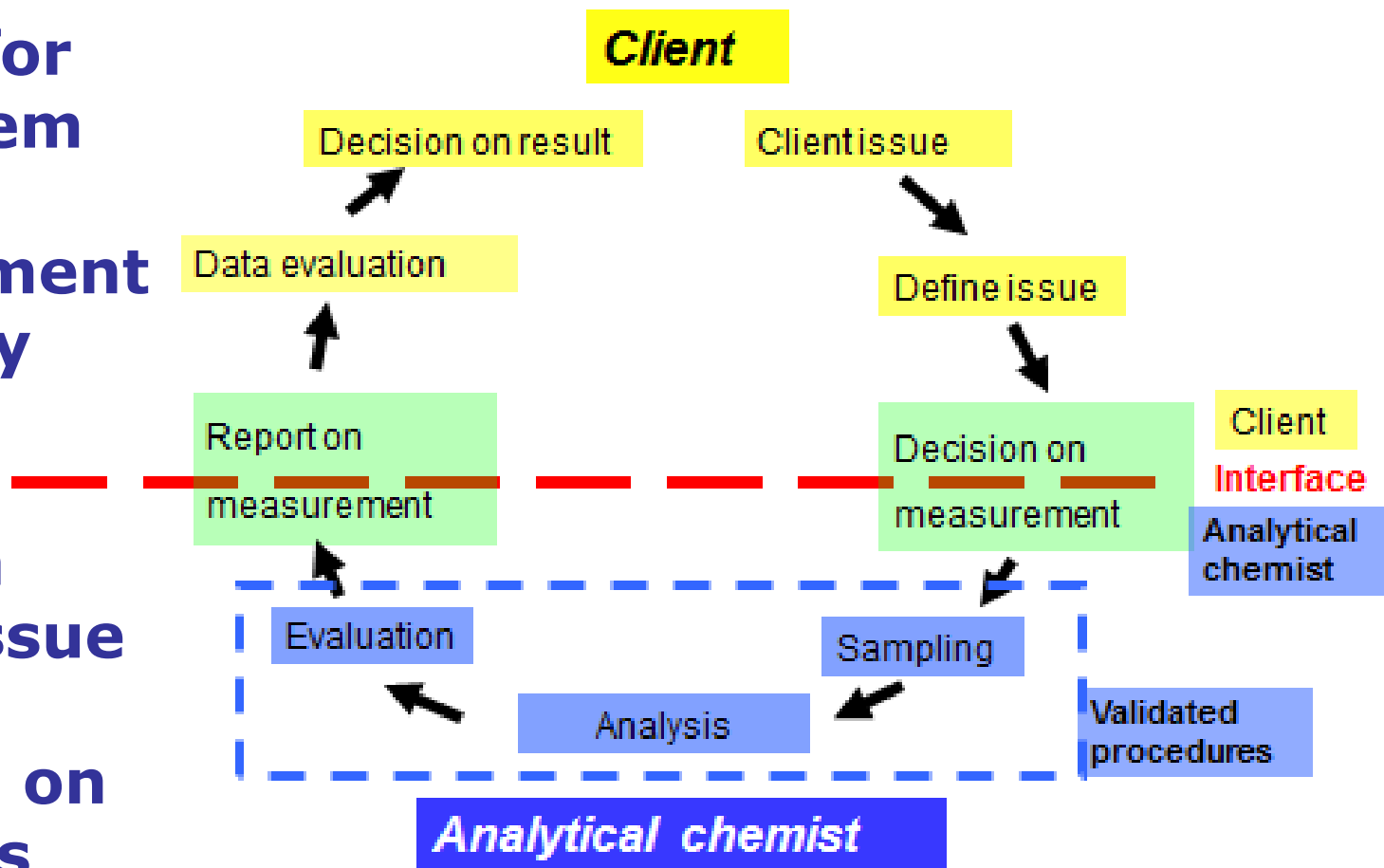
- Eurachem aims and membership
- Eurachem activities
- Recent and forthcoming activities
 - Guidance documents
 - Workshops



The measurement cycle

Focus for Eurachem is measurement quality

from clients issue to decision on results



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 see www.eurachem.org

Eurachem membership



Member not shown on map



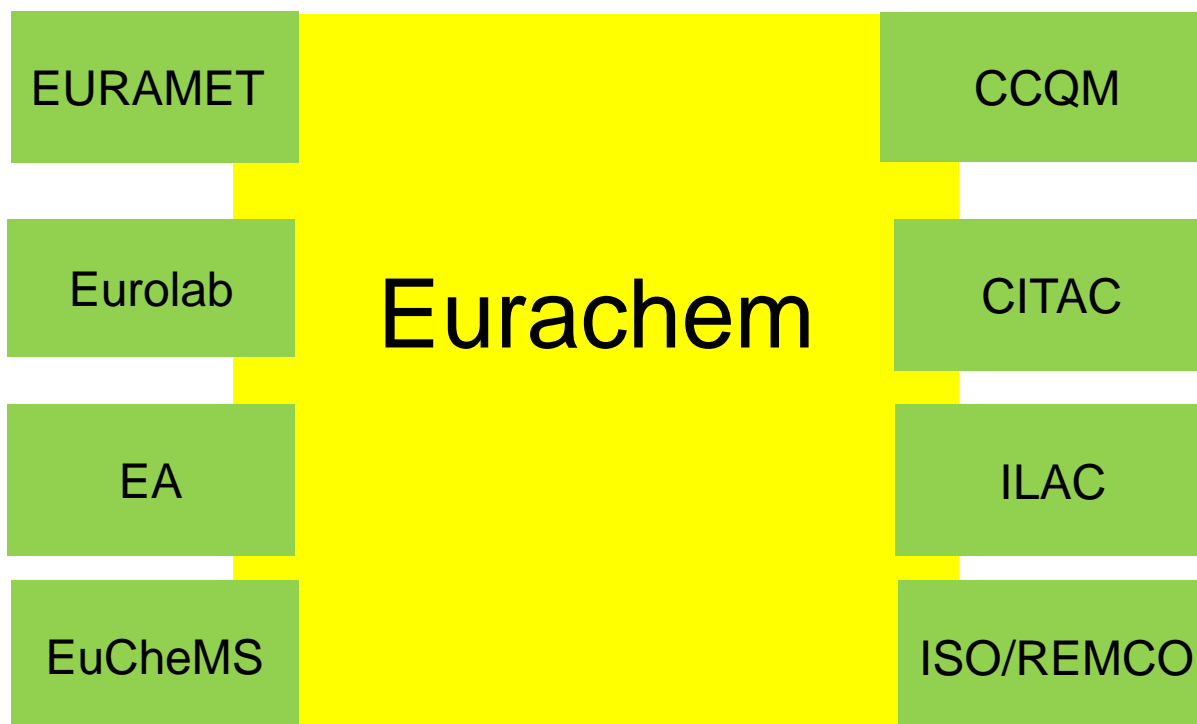
Cyprus



Georgia



Major cooperations



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
- Reading list for metrology in chemistry

Workshops since year 2000

- Validation, Traceability and Measurement Uncertainty (2000, 2012, 2014)
- Education & Training (2004)
- Proficiency Testing (2000, 2003, 2005, 2008, 2011, 2014)
- 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)
- QA of measurements from *Field to Laboratory* (2013)

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

Future Eurachem Workshops

- *Together with NMKL on measurement uncertainty in food and feed analysis, Copenhagen, 29-30 September 2014.*
- *8th Eurachem workshop on proficiency testing in analytical chemistry, microbiology and laboratory medicine, Berlin 6-9 October 2014*

<http://www.eurachempt2014.de/>

- International Workshop on Human Errors and Quality of Chemical Analytical Results, Tel-Aviv, Israel, 13 January 2015

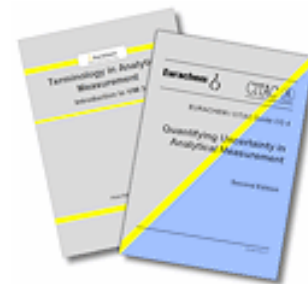
Recent Guidance Documents

- 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)
Discusses a selection of the concepts in VIM 3, focusing on those most likely to be encountered in analytical laboratories
- Measurement uncertainty arising from sampling (2007)
- Use of uncertainty information in compliance assessment (2007)

More Guidance Documents

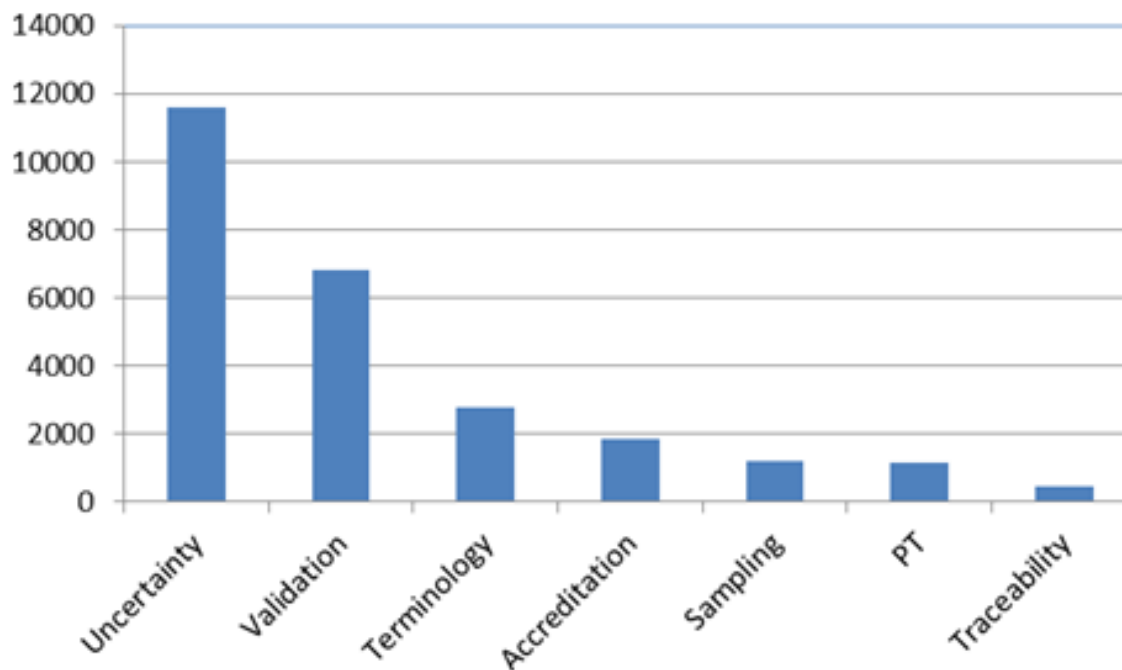
- Traceability in Chemical Measurement (2003)
- The Selection and use of Reference Materials (2002)
- Accreditation for Chemical Laboratories (2002)
- Common Position Paper for the Use of Proficiency Testing as a Tool for Accreditation in Testing (2001)
- The Fitness for Purpose of Analytical Methods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

All Guides are currently 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 with e.g. CITAC





Downloads of Guides



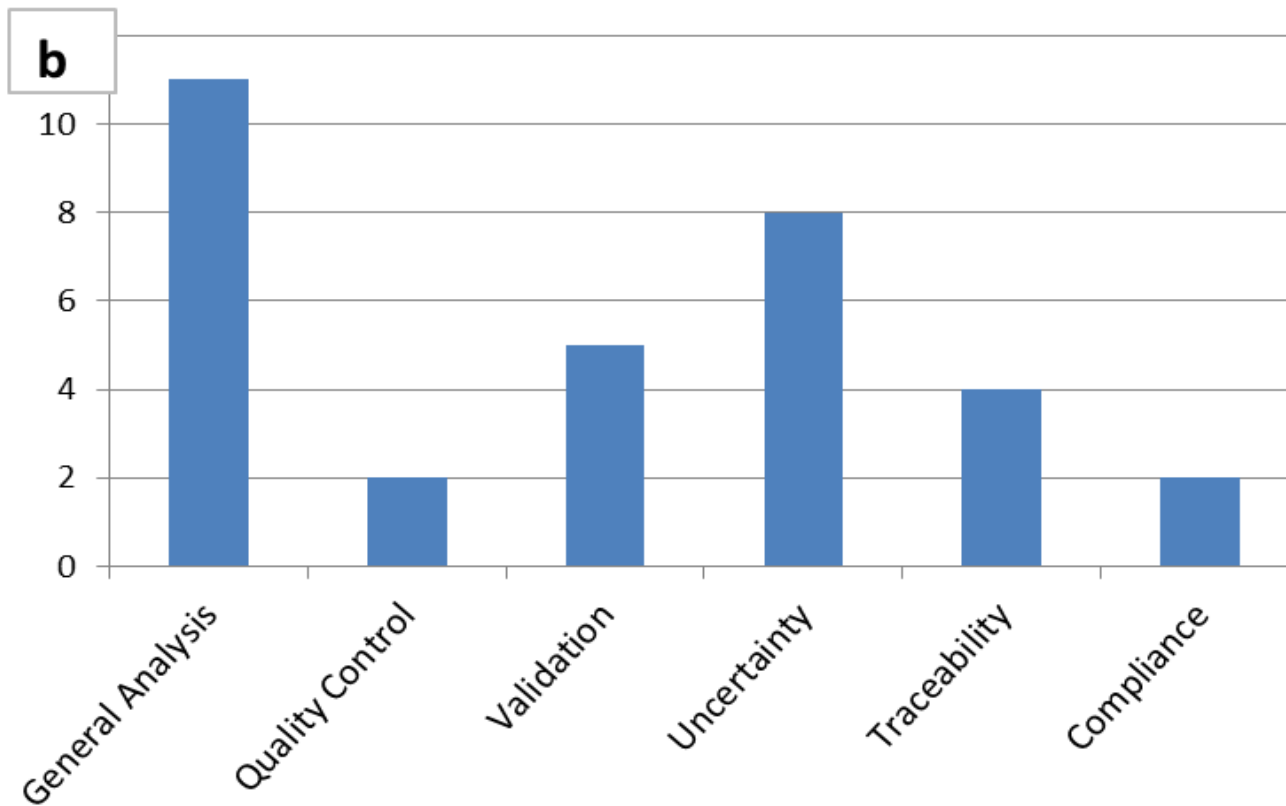
Number of downloads of Eurachem guides during Oct 2012 – Sep 2013

The Guides are referred to with a single name.

Note that Sampling refers to the guide Uncertainty in sampling



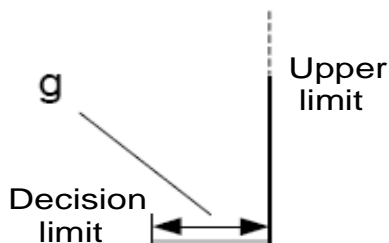
Impact: references to Eurachem in ISO documents – survey 2013



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 traceability guide



Leaflet introducing the compliance guide

Acceptance zone

Rejection zone

Current guidance activities

- Guides in preparation:
 - “Expressing uncertainty in qualitative analysis”
 - “Setting and use of the target uncertainty in chemical measurements”
- Revisions
 - “Validation” guide from 1998 - due October 2014
 - Accreditation for Chemical Laboratories (from 2002)
 - Quality Assurance for R&D and Non-routine Analysis (from 1998)

Administration 2014-2016

- Change of Chairs (2-year cycle)
 - Chair: Wolfhard Wegscheider (Austria)
 - Vice chair: David Milde (Czech Republic)
 - Past chair: Bertil Magnusson (Sweden)
- Secreteriat
 - Eurachem Austria, secretary@eurachem.org
- Website
 - www.eurachem.org

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Home

Welcome to Eurachem

Welcome to Eurachem, a network of organisations in Europe having the objective of establishing a system for the international traceability of chemical measurements and the promotion of good quality practices. It provides a forum for the discussion of common problems and for developing an informed and considered approach to both technical and policy issues. It provides a focus for analytical chemistry and quality related issues in Europe.

Task Views

Check the Task Views to find all the Eurachem resources for particular topics:

- › [Measurement Uncertainty](#)
- › [Proficiency Testing](#)

Recent News

New Eurachem Information Leaflet issued

The Eurachem Information Leaflet entitled "How can proficiency testing help my laboratory?" has now been translated into a further 10 languages: all 11 language versions be downloaded here.

Other information leaflets can be found under '[Information leaflets](#)'.

Terminology guide now in three languages

The Eurachem guide to terminology: "Terminology in Analytical Measurement: Introduction to VIM 3" is, thanks to the efforts of the German and Italian Eurachem contributors, now available in two further languages.

[Download the guide here in three languages >>>](#)

Reading list for metrology in chemistry published



The Eurachem Education and Training Working Group has prepared a reading list containing references to documents relating to all aspects of metrology in chemistry, with a particular focus on quality assurance. While not intended to be a comprehensive list of all publications relating to quality in analytical measurement, the list aims to provide references to a selection of websites, standards, guides and books which will hopefully be of use to all those involved with chemical analysis, including laboratory staff, students, lecturers and trainers.

The reading list can be accessed [here](#), both as a pdf version and as a series of web pages.

[Eurachem/EQALM PT workshop - 2nd Circular available](#)

Search ...



Quick Links

Frequently requested

- › [Eurachem Guides](#)
- › [Eurachem Publications](#)
- › [Quantifying Uncertainty in Analytical Measurement, 3rd Edition \(2012\)](#)
- › [The Fitness for Purpose of Analytical Methods \(1998\)](#)
- › [Terminology in Analytical Measurement: Introduction to VIM 3](#)

Recent updates

- › [Education and Training Working Group](#)
- › [New Eurachem Information Leaflet issued](#)
- › [How can PT help my laboratory?](#)
- › [Eurachem Policies and Procedures](#)
- › [Terminology guide now in three languages](#)
- › [New Terminology guide published](#)



Image courtesy of SP, Sweden

Forthcoming Events

- 29 Sep 2014 [NMKL/Eurachem workshop: MU for food and feed analysis](#)
- 6 Oct 2014 [8th International Workshop on Proficiency Testing](#)
- 10 Oct 2014 [Executive Committee meeting](#)

[View Full Calendar](#)

Eurachem 25 years in ACQUAL 2014

On the occasion of the 25th anniversary, Eurachem was invited to submit review articles to the journal Accreditation and Quality Assurance covering Eurachem's formation and impact so far

- **Eurachem's 25th Anniversary: Two members' perspective** Alex Williams (Chairman, WG on Uncertainty and Traceability)
Paul De Bièvre (Eurachem Chairman 1993 -95)
- **Impact of Eurachem 25 years of activity**
Bertil Magnusson, Eurachem chair 2012-2014,
Stephen L.R. Ellison, chair of WG on Qualitative analysis
Marina Patriarca, member of Eurachem executive committee

Summary

- Continuing development of guidance
 - Latest new guide: Accreditation for Microbiological Laboratories, 2nd edition (2013)
- Continuing development of leaflets
- International workshops
 - Measurement Uncertainty for food and feed analysis, Copenhagen, 29-30 September 2014
 - 8th Eurachem workshop on proficiency testing, Berlin, 6-9 October 2014
 - International Workshop on Human Errors and Quality of Chemical Analytical Results, Tel-Aviv, Israel, 13 January 2015



Eurachem is people



GA 2014, Lisbon