



Eurachem

A Focus for Analytical Chemistry in Europe

Eurachem

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

*Michela Segal – EURAMET TC-MC chair
Slides provided by Bertil Magnusson –
Eurachem chair*



Introduction

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



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

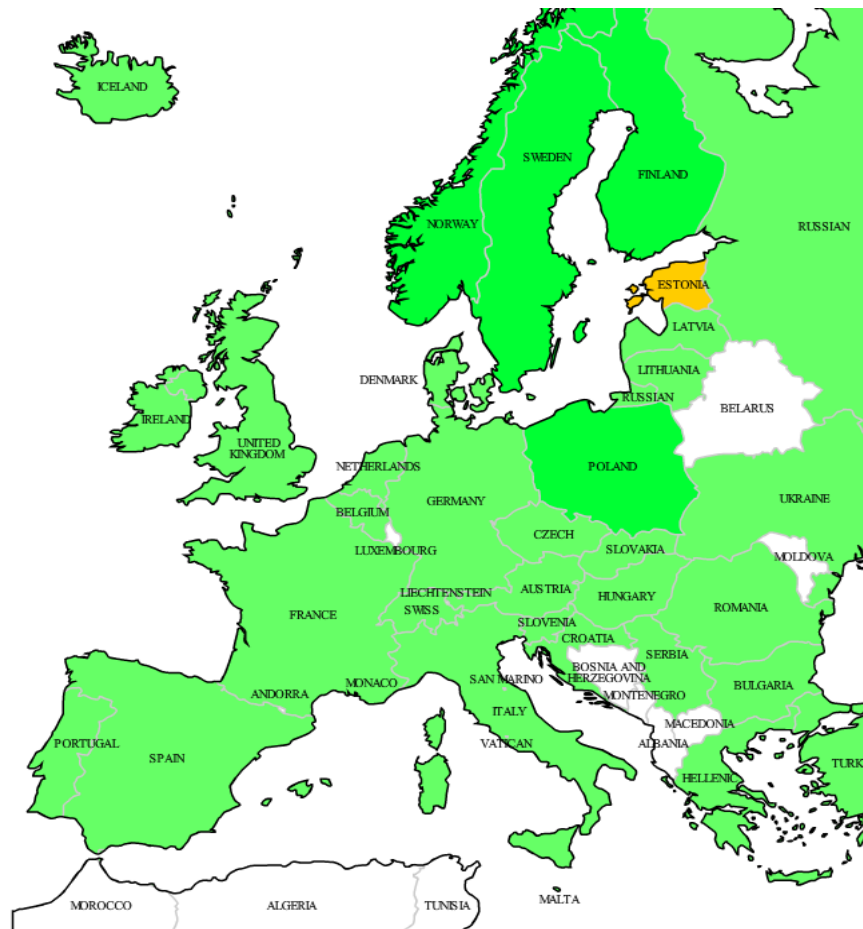
Scope & rules - Memorandum of Understanding www.eurachem.org



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Eurachem membership



Members not
shown on map



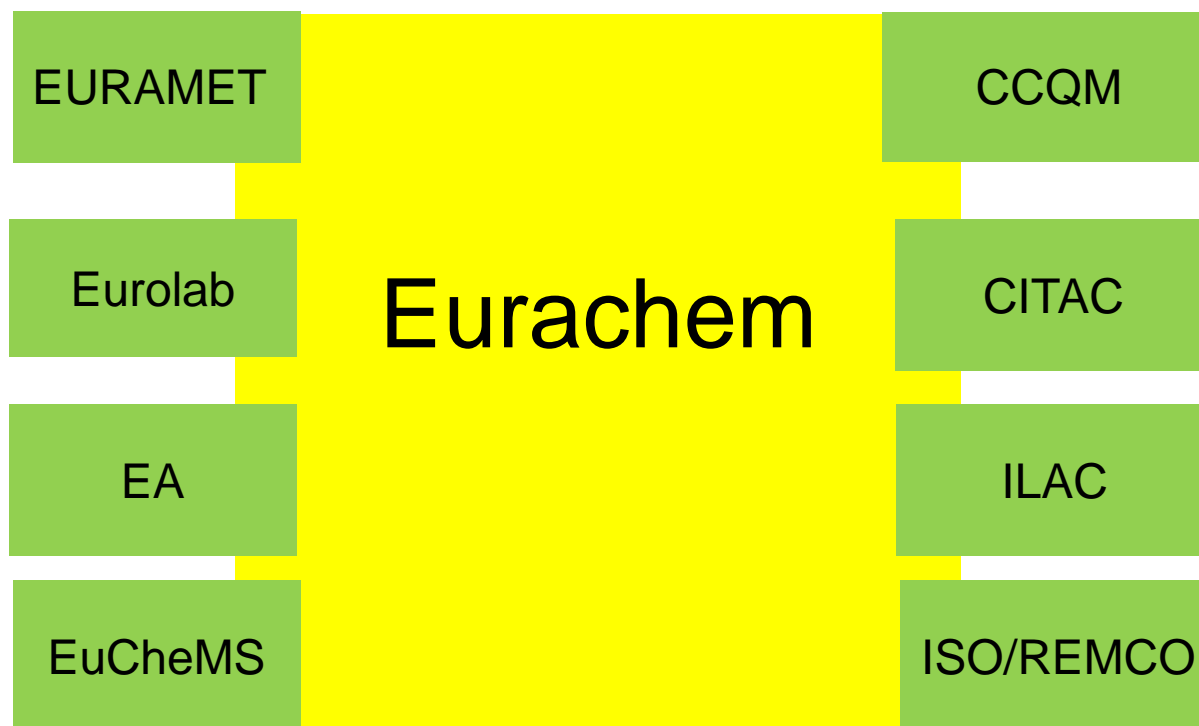
European
Commission



Cyprus



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



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)

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



Future Eurachem Workshops

- *Quality Assurance of measurements from Field to Laboratory*
 - Espoo, Finland 20-21 May 2013
- *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





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)



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 the Eurachem website and several translations are available at national Eurachem websites.

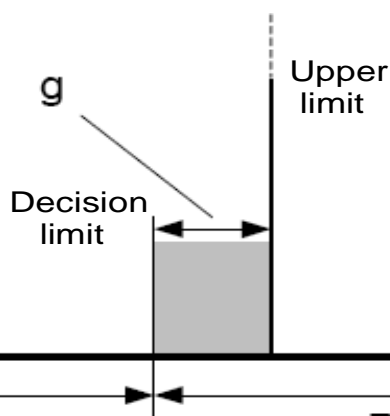
Guides were prepared by Eurachem or in cooperation with e.g. CITAC, EA



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



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 reference
 - 2015 a new version with additional examples



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



Summary

- Continuing development of guidance
 - Latest new guide: Quantifying Uncertainty in Analytical Measurement (3rd edition, 2012)
- International workshops
 - *Eurachem workshop on Quality Assurance of measurements from Field to Laboratory*
Espoo, Finland 20-21 May 2013
 - *Measurement Quality* in conjunction with celebration of 25 year of Eurachem
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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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.



Image courtesy of SP, Sweden

Task Views

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

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

Recent News

Call to participate in surveys on GUM and VIM

Forthcoming Events

- 9 Oct 2012 [Training Course: Internal Quality Control](#)
- 10 Oct 2012 [Key Challenges in Internal Quality Control](#)

[View all events >>](#)

Quick Links

Frequently requested

- › [Eurachem Guide](#)
- › [Eurachem Publications](#)
- › [The Fitness for Purpose of Analytical Methods: A Laboratory Guide to Validation and Performance Topics \(1998\)](#)
- › [Eurachem working documents](#)
- › [Terminology in Measurement: IUPAC Recommendations to VIM 3](#)

Recent updates

- › [Third edition of "Guide to the Expression of Uncertainty in Measurement" published](#)
- › [Quantifying Uncertainty in Analytical Measurements: 2nd Edition \(2008\)](#)
- › [Use of uncertainty information in calibration assessment. \(2008\)](#)

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