

Eurachem activities

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Introduction



- Eurachem aims and membership
- · Eurachem activities to date
- A FOCUS FOR ANALYTICAL CHEMISTRY IN EUROPE
- Recent and forthcoming activities
 - Guidance documents
 - Workshops

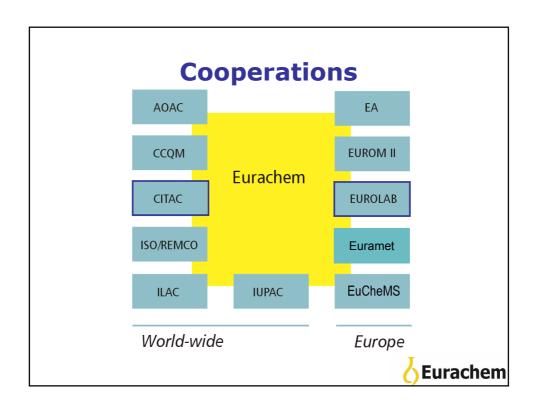


What Is Eurachem?

- A network of national and other organisations
- A focus on analytical quality and traceability
- Providing authoritative guidance documents
- Organising and coordinating Workshops and training events
- · Primary audience:
 - Laboratories Accredited to ISO 17025 for analytical measurement
 - Accreditation bodies and related organisations







Activities

- Workshops and Training
 - International workshops on analytical QA issues
 - Hosted by members
 - Members generally retain income
- Guidance documents
 - Prepared by working groups
 - Disseminated via web and Secretariat
 - Translation and publication by members permitted



Workshops

- Comparability & Traceability (1992, 1996)
- Education & Training (1991, 1998, 2004, 2008)
- Proficiency Testing (1993, 1995, 2000, 2003, 2005, 2008)
- Measurement Uncertainty (1994, 1997, 1999, 2000, 2008)
- Good Automated Laboratory Practice (1993)
- Quality Assurance in R&D (1998)
- Reference Materials (2000)
- Sampling (2001)

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



Future Eurachem Workshops

- Measurement Uncertainty: Interpretation and Sampling – Berlin, Spring 2008
- Metrology in Chemistry Athens, May 2008
- Proficiency testing Rome, October 2008
- Analytical QA Stream EuCheMS Chemistry Congress – Turin, Sept 2008



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) (joint with CITAC)
- Selection, Use and Interpretation of Proficiency Testing (PT) Schemes by Laboratories (2000)
- Quantifying Uncertainty in Analytical Measurement: 2nd edition (2000) (joint with CITAC)
- 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) (joint with CITAC)
- Traceability in Chemical Measurement (2003)
- Use of uncertainty information in compliance assessment (2007)
- Measurement uncertainty arising from sampling: a guide to methods and approaches (approved 2007)

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New Guidance Documents - 1

- Interpretation of results with uncertainty
 - MU changes interpretation
 - Guidance largely follows a 'guardbanding' approach
 - Includes specific attention to interpretation when the uncertainty varies with (true) concentration

Published May 2007



New Guidance Documents - 2

- · Uncertainty for Sampling
 - Extensive development of practical approaches to estimating the uncertainty arising from the sampling process
 - Incorporates both experimental estimation based on replicated sample increments, and construction of models based on Gy's framework for controlling sampling quality
 - Published 2007



New Guidance Documents - 3

- Uncertainty in Qualitative Analysis
 - Voting draft in preparation
- Validation
 - Delayed due to change in convenor post
- Glossary of analytical terminology
 - An early Eurachem document; the E&T wg is considering revision
- Uncertainty near zero and 100%
 - Possible short guidance note based on UK work within RSC analytical methods committee
- Quantifying uncertainty in Analytical measurement
 - 3rd edition under consideration



Summary

- · Continuing development of guidance
 - Sampling uncertainty
 - Interpretation of results with uncertainty
 - Further measurement uncertainty issues
- Future International workshops
 - Uncertainty issues
 - Proficiency testing
 - Chemical metrology
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