



ДОБРО ЈУТРО!

Καλημέρα σας!


 Eurachem 1

A short presentation of

 **Eurachem**
A focus for analytical chemistry in Europe


its objectives, role and activities
 Why to establish a national
 Eurachem Committee

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 Eurachem


What Is Eurachem?

- Established in 1989
- " ... a focus for analytical chemistry and quality related issues in Europe"
- "... a network of organisations in Europe, with the objective of establishing a system for the international traceability of chemical measurements and the promotion of good quality practices"

 Eurachem 3


Eurachem Aims

- Promote best practice and develop networks for collaboration
- Develop international comparability of chemical measurements
- Provide a framework for co-operation in establishing traceability
- Establish national EURACHEM groups and provide input to other international organisations
- Raise awareness amongst decision makers and develop broadly based education and training

 Eurachem 4

The role of Eurachem


For more than two decades, Eurachem has severely contributed to the effort of a better understanding of quality issues through the elaboration of useful tools for the reliability of chemical measurements.

 Eurachem 5

The mission of Eurachem

is to improve the quality of chemical measurement and measurements where chemistry is coupled with other disciplines, e.g. physics and biology, in order to meet the needs and expectations of customers.

This is analysed in...

 Eurachem 6

The Strategy Programme 2011-2015

provides for the mission as follows:

- To promote best practice in chemical measurements, and in measurements where chemistry is coupled with other disciplines, e.g. physics and biology.
- To develop strategies which will cater for new and emerging analytical technologies.
- To address the needs and expectations of the analytical community and their customers in the 21st century

Membership

- | | | |
|-------------|-------------|------------------|
| - Austria | - Hungary | - Russia |
| - Belgium | - Iceland | - Slovakia |
| - Croatia | - Ireland | - Slovenia |
| - Cyprus | - Italy | - Spain |
| - Czech Rep | - Lithuania | - Sweden |
| - Denmark | - Malta | - Switzerland |
| - Finland | - Norway | - Turkey |
| - France | - Poland | - Ukraine |
| - Germany | - Portugal | - United Kingdom |
| - Greece | - Romania | |

Structure

- **General Assembly**
national delegates: one vote per country.
GA meets annually (end May)
- **Executive Committee** : elected from the GA. EC meets twice a year
- **Secretariat**: elected/appointed by the GA

Working Groups

- Education and Training
- Measurement Uncertainty and Traceability
- Proficiency Testing
- EEE Proficiency Testing WG
- Qualitative Analysis
- Uncertainty from Sampling

Consideration for new activities

- Method Validation
- Reference Materials
- Bioanalysis

Working Group Highlights

Education and Training

- Collation and evaluation of information on training in analytical chemistry and in metrology in chemistry, in member countries
- Production of a guide "Terminology in analysis – Introduction to VIM 3". Divides the terms into four groups; General Metrology, Metrological Traceability; Measurement Uncertainty; Method Validation
- Collation of suitable examples for training and/or teaching which support guidelines already developed
- An enquiry by questionnaire to be undertaken to evaluate the status of Chemical Metrology in Education

Working Group Highlights

Measurement Uncertainty and Traceability

- Production of a Leaflet on uncertainty and compliance with limits
- A revision of the EURACHEM/CITAC guide "Quantifying Uncertainty in Analytical Measurement" is being carried out. The scope of the guide is not changing but some new aspects, such as the Monte Carlo approximation, are being added.

Working Group Highlights

Proficiency Testing

- New information leaflet on Pre- and post-analytical proficiency testing produced – will now be translated into various languages
- 7th EURACHEM PT Workshop which will be held during October 2011 in Istanbul
- Two new activities will commence shortly; some guidance on the evaluation of qualitative results in PT schemes and a new leaflet addressing the evaluation of PT performance.

Working Group Highlights

Method Validation

- The scope and the work plan of this new WG is being prepared
- First key activity will be the revision of the existing EURACHEM guide 'The Fitness for Purpose of Analytical Methods'
- Major part of this work will be focused on the validation of the in-house methods

New work started

- On the revision of EA 4/10 on the accreditation of microbiological laboratories. A survey had been earlier carried out within EA LC to illustrate the needs of ABs
- Involvement in the revision of EA 4/9 on sensory analysis

Cooperation with...

- Eurolab, Euramet, EA, COEC (4-chairs meetings, Permanent Liaison Group meetings)
- Eurolab, EA (EEE activities)
- Euramet (participation in the Euramet TC on Metrology in Chemistry)
- EuCheMS (previously FECS)
- CITAC
- IUPAC
- AOAC, ISO/REMCO, ILAC, CCQM, CODEX...
both in Europe and world-wide

Activities

- **Workshops and Training**
 - International workshops on analytical QA issues
 - Hosted by members
 - Members generally retain income
- Workshops are usually organised in conjunction with GA meetings, in collaboration with local/ regional organisations.
- **Guidance documents**
 - Prepared by working groups
 - Disseminated via web and Secretariat
 - Translation and publication by members permitted

A new project

has recently been initiated on Quality Assurance in Biological Measurements. This was due to

- the growing importance of biological methods in accredited laboratories
- the increasing need for accreditation in traditional biological measurement laboratories
- the operation of multidisciplinary laboratories

Work at the national level

Some preparatory work has been already carried out to encourage the involvement of interested people with experience in fields like

- Medical laboratories
- DNA studies
- GMOs determination
- Food/feed and plants
- Environmental measurements
- Forensic science
- Anti-doping control etc.

Workshops

- Comparability & Traceability (1992, 1996)
- Education & Training (1991, 1998, 2004)
- Proficiency Testing (1993, 1995, 2000, 2003, 2005, 2008)
- Measurement Uncertainty (1994, 1997, 1999, 2000)
- Good Automated Laboratory Practice (1993)
- Quality Assurance in R&D (1998)
- Quality Assurance in Analytical Laboratories (2002)
- Reference Materials (2000)
- Sampling (2001)
- Uncertainty from sampling (2008)
- Uncertainty and compliance limits (2008)
- Metrology in Chemistry (2008)
- Analytical results for decisions (2010)
- Key Quality Assurance Challenges for Analytical Measurements (2011)

Publications

A number of Guides and Leaflets on various topics have been published by Eurachem. These publications are available in a number national languages. This is based on the contribution of national Eurachem Committees and coordinated by Eurachem. All of them are freely downloadable from the website.

Guidance Documents

- The fitness for purpose of Analytical Methods: A laboratory Guide to method validation and related topics (1998)
- Harmonised guidelines for the use of recovery information in Analytical Measurements (1998)
- Quality Assurance for Research and Development and Non-routine Analysis (1998)
- Selection, use and interpretation of Proficiency Testing (PT) by Laboratories (2000)
- Quantifying Uncertainty in Analytical Measurement (2000)

More guidance documents...

- The selection and use of Reference Materials (2002)
- Guide to Quality in Analytical Chemistry: An aid to Accreditation (2002)
- Accreditation for Microbiological Laboratories (2002)
- Traceability in Chemical Measurements (2003)
- Measurement uncertainty arising from sampling (2007)
- Use of uncertainty information in compliance assessment (2007)
- Terminology in Analytical Measurement: Introduction to VIM 3 (2011)

The current list of leaflets

- Information leaflet for lab customers concerning the quality of chemical analyses (2000)
- Proficiency Testing Schemes and other interlaboratory comparisons (2005)
- Pre- and post-analytical proficiency testing (2009)
- Traceability of Analytical Results (2005*)
- Use of uncertainty information in compliance assessment (2009**)

* Updated 2008, ** Updated 2010

The Newsletter of Eurachem

is issued annually and which is available electronic format; national Committees can receive up to 50 free hard copies.

The preparation is undertaken by the Secretariat to which national committees submit their contributions describing their activities for the year. Information on the development within Working Groups is also presented as well as other topics of interest to the Eurachem people all over Europe.

The 7th Workshop

"Proficiency Testing in Analytical Chemistry, Microbiology and Laboratory Medicine"

will be organised in Istanbul between the 3rd and 6th October in cooperation with CITAC and EQALM.

- Plenary lectures
- Discussion of specific topics
- Posters

The last General Assembly

was recently hosted in Moscow. A whole week was devoted to Eurachem activities, namely

- 23-24 May: Workshop
- 24 May :Meetings of the Working Groups
- 25 May: Executive Committee Meeting
- 25-26 May: General Assembly

Main topics discussed in the GA

- 5-year Strategic Plan (2011-2015)
- Discussion Forum:
 - New definition of SI units
 - New definition of calibration after VIM 3
- Reports (Chair, Secretariat, Treasurer)
- Fee payment
- Elections of new EC Members

The Website

has recently been substantially upgraded:

- Better access to recent and popular items
- Improved search facilities
- A new, improved calendar system, with forthcoming events easily visible on the front page
- A new Contact page, allowing contact with Eurachem and national delegates via a secure contact form.
- Contributions from multiple authors, allowing quicker updates and more accurate working group pages.
- A new feature on the site is the use of 'Task views'. This facility summarises the resources available for specific topics, giving site users quick access to all the most relevant Eurachem guides, documents and reference information.

Why to establish a national Eurachem Committee

- active involvement in the activities of the Eurachem Family is beneficial for all of us.
- interaction and exchange of knowledge and experience over existing frontiers is of high importance and usefulness for all of us
- organization of workshops and other training events with the technical support of Eurachem
- use of publications (translated under permission) and have some income from their distribution.

Workshop in Cyprus

During the Accreditation Week 2009, CYS-CYSAB hosted a two-day Workshop (18th -19th Nov.), with invited speakers - members of the Executive Committee of Eurachem (on the occasion of their autumn meeting).

30 assessors and technical experts and members of TCs of CYS-CYSAB attended the WS which was very successful and interactive.

The participants had varied backgrounds (mainly chemistry, also microbiology, veterinary science and engineering).



ΧΒΑΛΑ ΝΑ ΠΑΖΝΉΙ!

Ευχαριστώ για την προσοχή σας!

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