

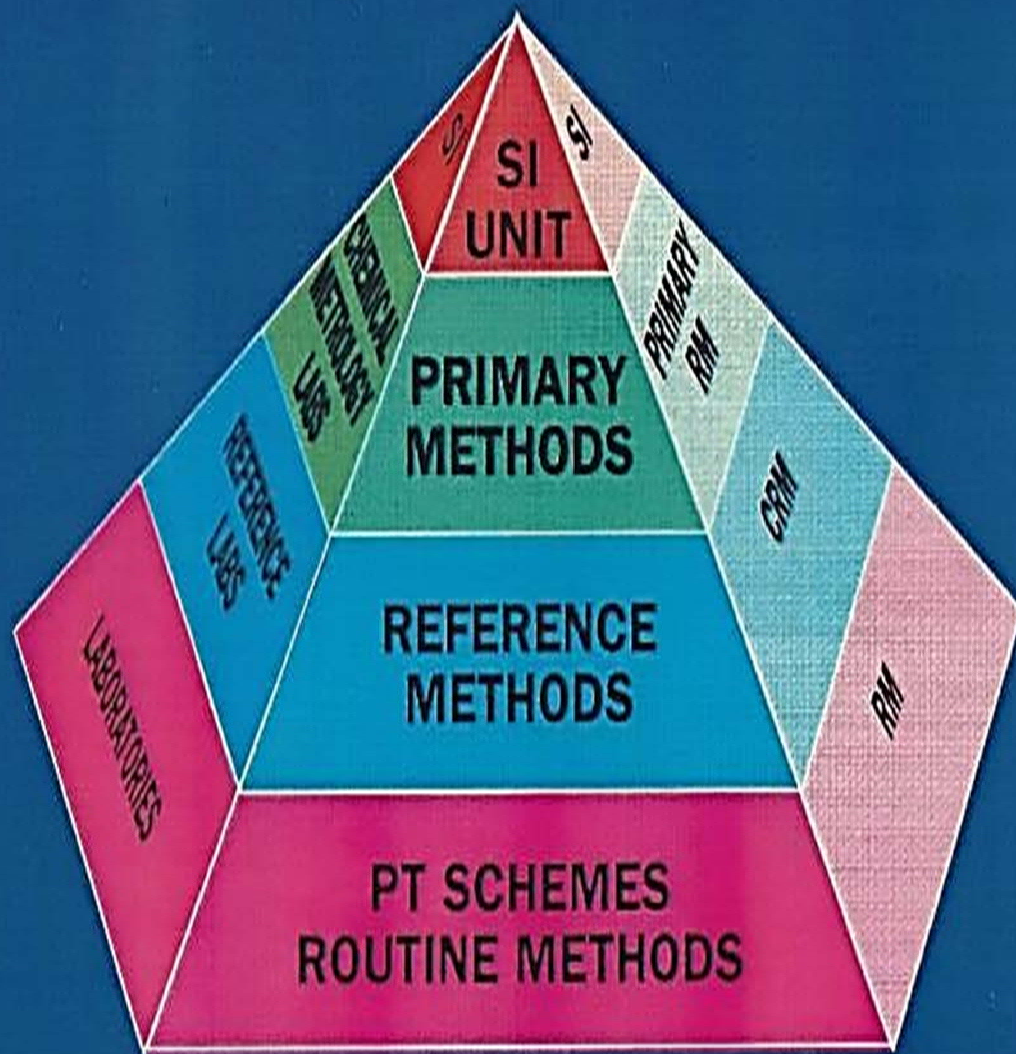
What Eurachem has Achieved

Máire C. Walsh

Chair 2005(Nov) – 2008(May)

2.1 MoU

“The aim of EURACHEM is to provide a forum for European laboratories and other organisations to promote the adoption of common principles of valid analytical measurement and collaboration on the various tasks required to achieve mutual acceptance of test data”



Important legislation for labs

- Single European Act 1982
free movement of goods, services including analytical data
- White paper 1985
elimination of technical barriers to trade,
preventing the creation of artificial technical barriers to trade,
new approach to harmonisation of legislation
- Global approach to certification and testing 1989

Achievements of Eurachem

- Global Initiatives
- European activities
 - a) National networks
 - b) Working groups
 - c) Workshops
 - d) Guides
- Collaboration with other organisations
- Conclusion

Global Activities

- CITAC (co-operation for international traceability in analytical chemistry)
- BIPM – CCQM (metrology in chemistry)
- ACQUAL (accreditation & quality assurance)

European Activities

- National Networks
- Newsletter
- Working groups
- Workshops
- Guides

Current Working Groups

- Education and Training
- Measurement Uncertainty and Traceability
- Proficiency Testing
- Method Validation
- Qualitative analysis
- Uncertainty from Sampling

Workshops

- Education and Training
- Comparability/Traceability
- Measurement Uncertainty
- PT
- RM
- Sampling
- Metrology
- ++++++



Measurement Infrastructure Includes

DATA THAT IS:

- Fit for Client's Purpose
- Is traceable and capable of being compared over space and time

TEST REPORT THAT:

Contains all of the information required to enable client make an informed decision

Fit for Purpose

Suitable validated methods and ability to use the chosen method

“Fitness for Purpose of Analytical Methods:
A laboratory guide to method validation and
related topics” 1998

“Selection & use of Reference Materials” 2002

Fit for Purpose (2)

Measurement Uncertainty

“Quantifying Uncertainty in Analytical Measurement” 3rd Ed. 2012

Also an information leaflet in MU

“Harmonised Guidelines for the use of Recovery Information in analytical measurements”
(IUPAC, ISO, AOACI, EURACHEM) 1998

Fit for Purpose (3)

QC Measures

Information Leaflets;

- on quality of chemical analysis
- PT schemes and other laboratory comparisons
- Pre and post-analytical PT
- How can PT help my laboratory

Guide: “Selection Use and Interpretation of PT Schemes by Laboratories” 2nd Ed. 2011

Fit for Purpose (4)

Laboratory Accreditation

Guide to Quality in Analytical Measurement:

An Aid to Accreditation, 2002

Guide: Accreditation of Microbiological

Laboratories, 2013

Comparable/Traceable

Guidance document and an information leaflet dealing with;

“Traceability in Chemical Measurement

A guide to achieving comparable results in chemical measurement”: 2003

and

Guide: Terminology in Analytical Measurement:

Introduction to VIM 3, 2011

Information Required for Informed Decision

Guidance document and an information
leaflet dealing with;

Use of Uncertainty Information in
Compliance Assessment, 2007

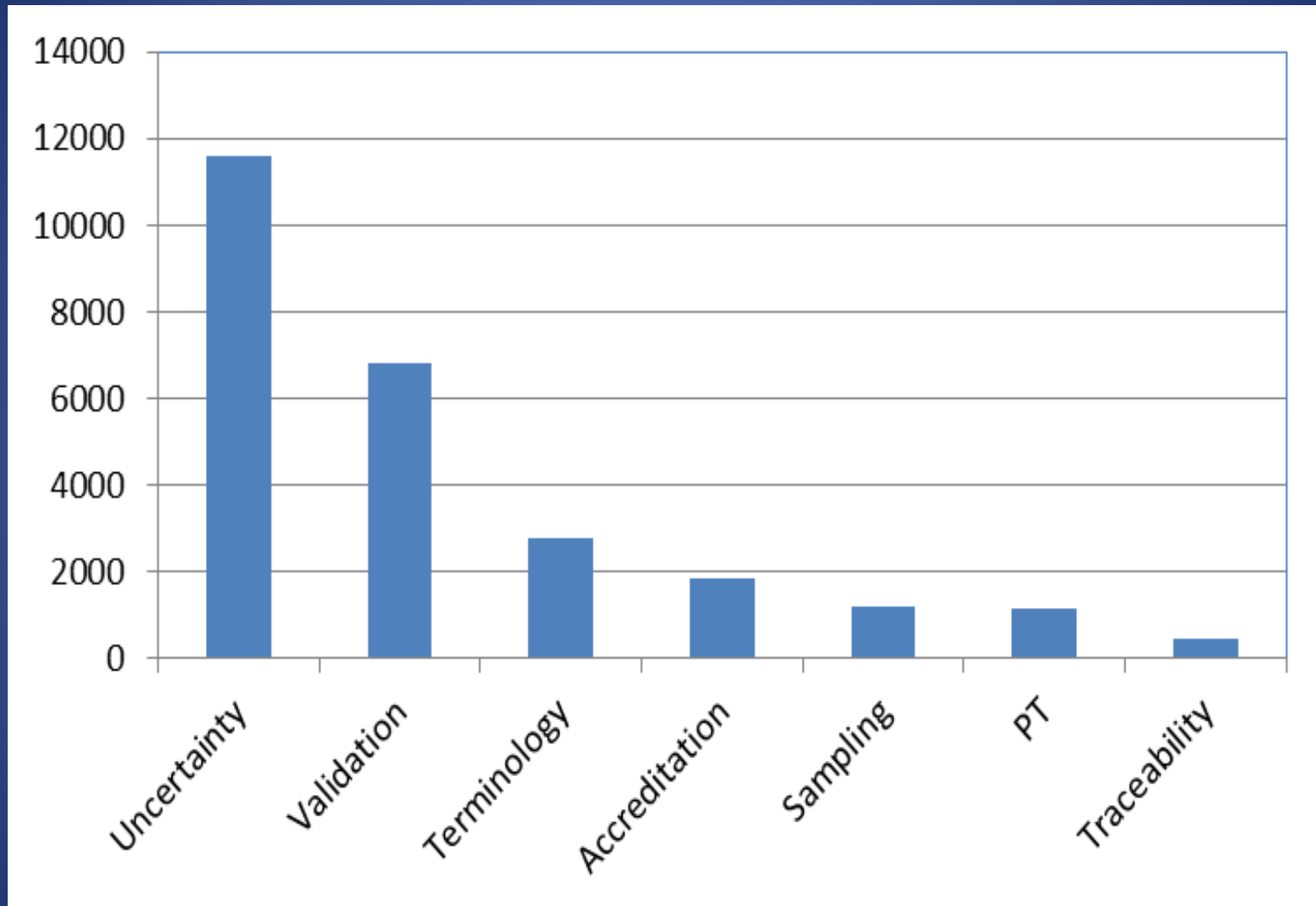
also

Measurement Uncertainty from Sampling,
2007

Guide Relating to Quality

- Quality Assurance for Research and Development and non Routine Analysis, 1998

Web downloads 2012/2013



Impact of Eurachem

Impact of Eurachem 25 Years of Activity

AQUAL (2014) 19: 55-57

- Usage by EA & its Members
- Literature Citations Web of Science 288 citations to guides in 266 papers.
- Google Scholar 5890 hits referencing Eurachem. Over 600 referenced MU and 300 validation
- ISO citations (35 ISO docs referenced Eurachem)

Collaborations

- National Societies of Chemistry
- Euro organisations
- ILAC
- CODEX Alimentarius
- AOAC International

Mission Statement (2013/2017)

To promote best practice in chemical measurements*, and measurements where chemistry is coupled with other disciplines, e.g. physics and biology

To develop strategies which will cater for new and emerging technologies

To address the needs and expectations of the analytical community and their customers in the 21st century

*Eurachem understands “chemical/analytical measurements” as referring equally to measurement and testing