

MCNEG Monte Carlo Workshop

17 March 2004

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Welcome to NPL



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- History
- NPL's international rôle
- The future: NPL in Europe



NPL – history


- UK's national standards laboratory for physical measurements (650 scientists, engineers and support staff)
- Founded in 1900
- 80 years work in ionising radiation
- Run as a GoCo since 1995 - contractor is SERCO
- New 15-year contract will focus on relevant science and customer interface
- New building occupied in 2004

NPL's international rôle

The Metre Convention

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- UK signed the Metre Convention in 1884
 - 51 Member States include all the major industrial nations
 - BIPM at Sèvres
 - CIPM oversees the SI and management of BIPM
 - 10 Consultative Committees (including CCRI)
 - CGPM is the formal decision-making body

2003 General Conference

Resolutions

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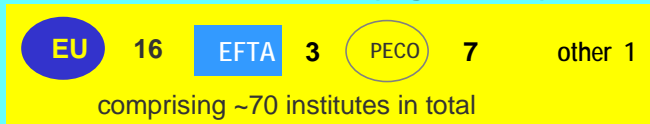


- Revision of the *mise en pratique* for the definition of the metre
- On the importance of the CIPM Mutual Recognition Arrangement
- Dotation of the BIPM for the period 2005 – 2008
- Requirements for cross-border transport of standards, equipment and reference materials

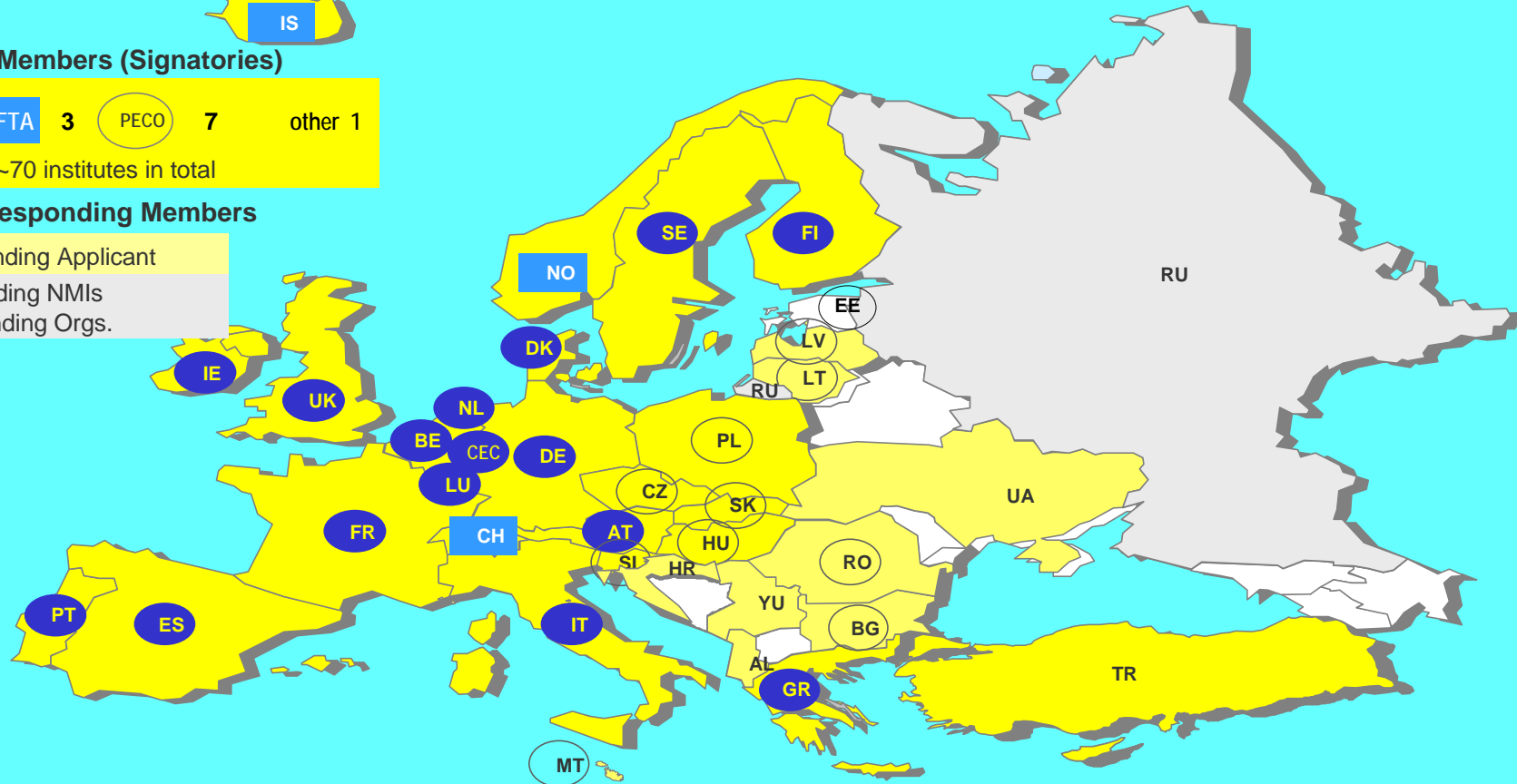
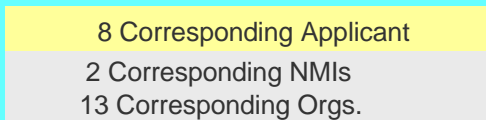
Membership and organisation



27 Full Members (Signatories)



23 Corresponding Members



- **27 Full Members plus 8 Corresponding Applicants**
- **Aim is to collaborate with the objective of promoting the coordination of metrological activities and services**
- **Tasks include coordination of projects and major investments as well as provision of information**
- **11 Technical Committees, including Ionising Radiation (with 3 sub-committees)**
- **Implementation of the CIPM MRA has been a major task**
- **MERA project sets the scene for the future**



- **MERA: Metrology for the European Research Area**
- **7 NMI partners and 4 sub-contractors**
- **Main workpackages:**
 - trend analysis
 - NMI workshops
 - wide consultation
 - foresight report
- **Emerging conclusions:**
 - move from collaboration to coordination
 - emphasis on coordinated research projects
 - consequences for EUROMET structure



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