

MCNEG 2004 MEETING

Welcome to NPL

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Head of Centre for Acoustics
and Ionising Radiation

15 March 2004



NPL -raison d'etre





"Do not have two differing weights in your bag – one heavy one light.

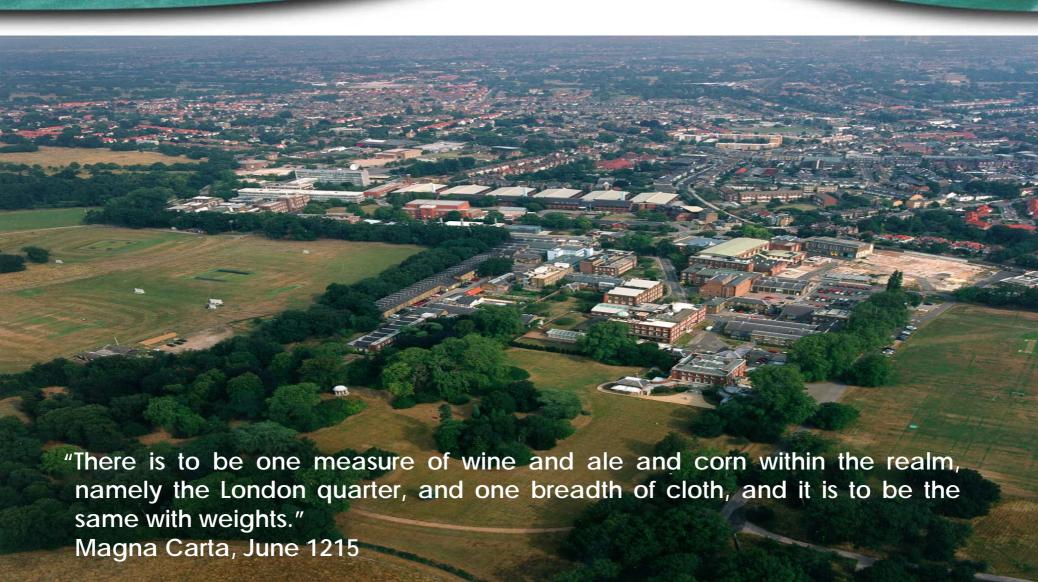
Do not have two different measures in your house – one large and one small.

You must have accurate and honest weights and measures, so that you may live long in the land the Lord your God is giving you."

Deuteronomy 25 v13-15

NPL -raison d'etre

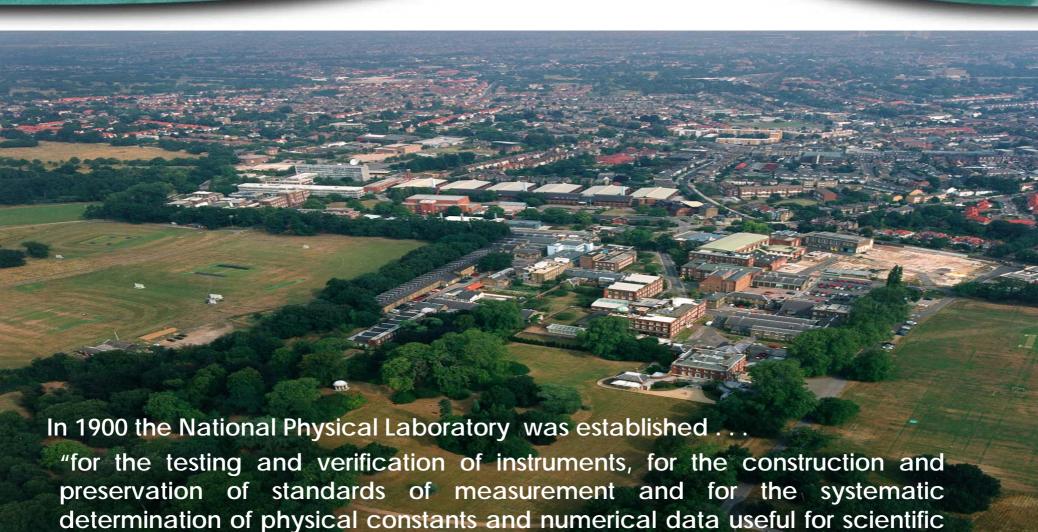




NPL – 104 years old

and industrial purposes."





NPL - in 2004





- Acoustics
- Bio-Science
- Dimensional measurement
- Electromagnetics
- Radiation Dosimetry
- Environmental Air Quality
- Lasers
- Mass and force
- Materials
- Neutrons

- Thermal
- Optical communications
- Photonics
- Photometry/Colour
- Pressure
- RF and Microwaves
- Radioactivity
- Radiometry
- Scientific Software
- Time

- UK's national standards laboratory for physical measurements (650 scientists, engineers and support staff)
- Run as a GoCo Contractor is SERCO

The GoCo



- GoCo Laboratory is Government Owned and Commercial Operated
- First contract won by SERCO 1995 2004
- SERCO have been selected to run NPL for at least next 10 years from April 2004 – long-term commitment from DTI
- SERCO partnered with SIRA for the bid.



Vision



"Our vision for NPL is to be the National Measurement Institute that delivers the highest economic and social impact, through excellent and responsive science.

We foresee a Laboratory with an enhanced global reputation, built on achievements in science and in applying metrology to deliver maximum benefit for the UK economy and quality of life."

From Serco bid document

Four components



Excellence in knowledge generation

Excellence in management to deliver value

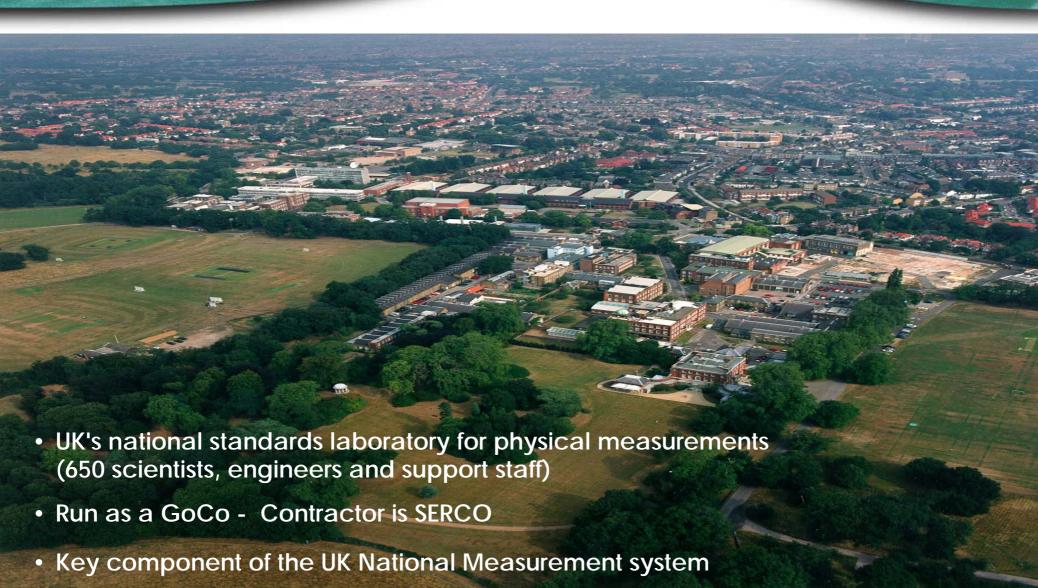
knowledge application

Excellence in

Excellence on the international stage

NPL - in 2004







The UK National Measurement System

Technical Infrastructure to ensure measurement in UK is:

- Traceable
- Consistent
- Internationally recognised

Excellence in measurement science to:

- Enable regulatory compliance
- Improve quality of life
- Provide economic benefit

The NMS is divided into 18 technical programmes

Ionising Radiation Metrology is one of the largest programmes

lonising Radiation





Radioactivity Metrology Neutron Standards













Environment

Protection

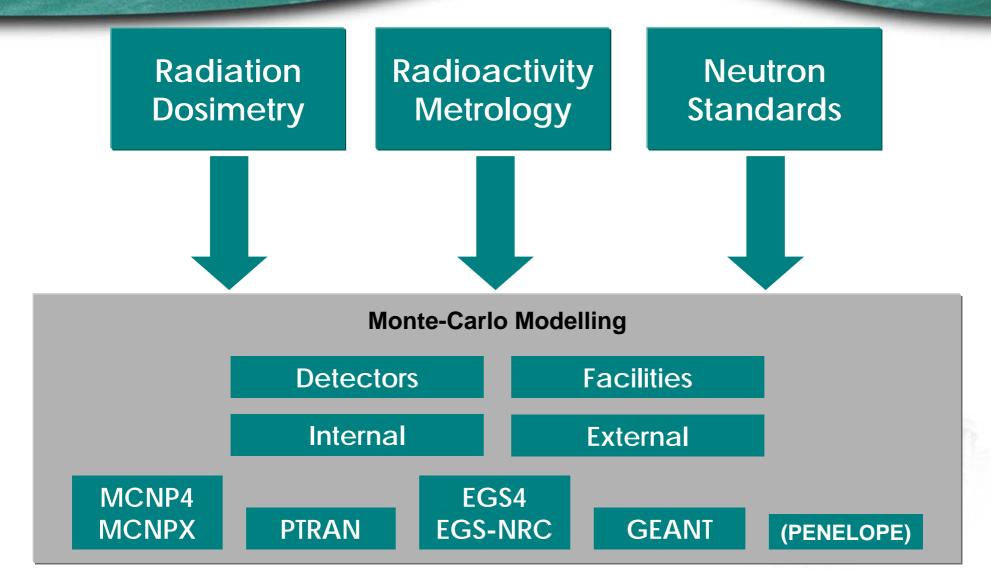
Diagnosis

Therapy

Industry

lonising Radiation





serco NPL Welcome