8th Nuclear Spectrometry Users' Forum

Simon Jerome
National Physical Laboratory, UK

The Park Royal Hotel, Warrington
18th May 2010

NPL
National Physical Laboratory

The NPL

- 36,000 square metre national laboratory facility on the Teddington site
  - Houses all NPL operations since 2008 (except Neutron Metrology)
  - One of the most extensive and sophisticated measurement science building in the world
  - ~750 Staff, of whom ~550 directly involved in science

National Physical Laboratory

The NMS (UK)

HMG Sponsor
Strategy and Budget

DBIS

National Laboratories
R&D, Transfer of
Measurement Standards,
Technology and Methods

LGC
(Chemical)

NPL
(Physical plus)

NEL
(Flow)

NWML
(Legal)

Partners and
Intermediaries

Accredited Measurement Labs

Instrumentation companies

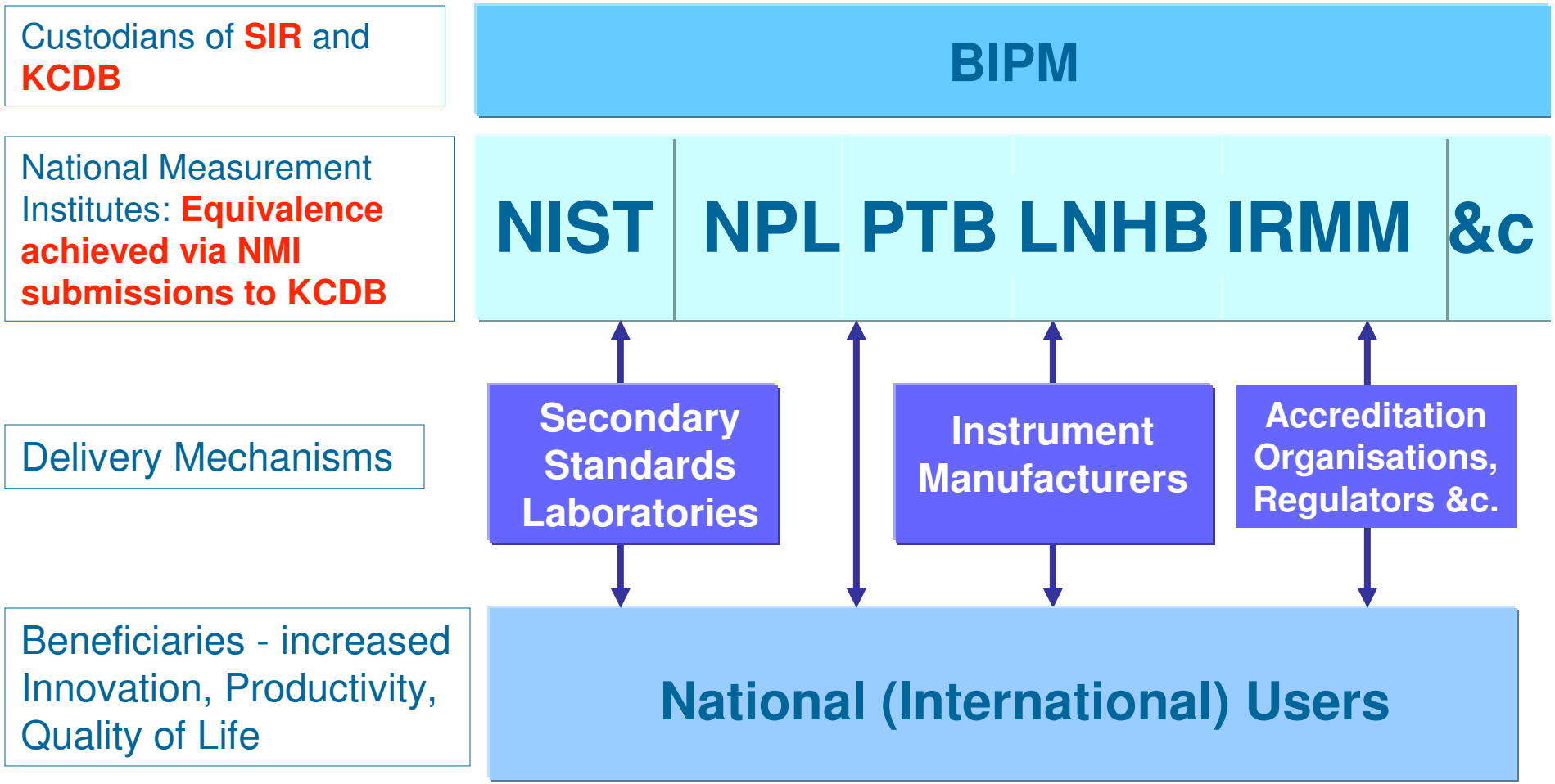
Trading Standards Depts

Beneficiaries - increased
Innovation, Productivity,
Quality of Life

Industry, Government, Society

NPL
National Physical Laboratory

The NMS (MRA)


Custodians of SIR and KCDB
BIPM
National Measurement Institutes: Equivalence achieved via NMI submissions to KCDB
NIST
NPL
PTB
LNHB
IRMM
&c
Delivery Mechanisms
Secondary Standards Laboratories
Instrument Manufacturers
Accreditation Organisations, Regulators &c.
Beneficiaries - increased Innovation, Productivity, Quality of Life
National (International) Users

Radioactivity

- Group of 20 staff – 18.3 FTE, 3 Temporary:
  - 7 Physics Graduates (2 PhDs)
  - 7 Chemistry Graduates (2 PhDs)
  - Over half the group is under 40

Radioactivity

- Three main requirements underlie the work of the group:
  - Radiation Protection (includes nuclear and non nuclear)
  - Nuclear Medicine
  - Environmental Monitoring

Agenda

10:15	**Introduction, Chairman's Welcome**
	Previous minutes and actions arising
10:25	Andy Pearce (NPL) Nuclear Decay data
10:45	Mike Healy (EA) Implementation of MCERTS
11:15	Break/Coffee
11:35	Simon Jerome (NPL) Production of ^{236}Pu
11:55	Prof. Elis Holm (NRPA) Marine transport of ^{129}I
12:15	Lunch
1:30	Tony Lansdel (UKAEA) Measurements of Radioactivity in Graphite
1:50	Ken Inn (NIST) Reference Materials
2:00	John Keightley (NPL) Monte Carlo simulation of α particle detectors
2:20	Simon Jerome (NPL) Programme formulation
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2:50	Any other business, Networking
3.30	Close

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Terms of Reference

- Aims

The Forum shall aim to facilitate both the exchange of information about UK nuclear spectrometry facilities and measurement techniques and the efficient use of those facilities by the user base. It shall represent members' interests in discussions and correspondence with expert bodies in the field of nuclear spectrometry.

- Activities

Encourage, by all means which shall be deemed appropriate and practical, good practice in measurement, including traceability to national standards.

Hold regular meetings to discuss matters of common interest relating to calibration and measurement, including analysis techniques.

Maintain and disseminate a register of UK nuclear spectrometry facilities and services subject to the user's approval.

Minutes of previous meeting

- Actions Arising
  - To determine how the programme would be co-ordinated and how the UK sub contracts to other organisations.
  - To get a more coherent view of the UK's emergency response network and how it works.

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