EMRP: THERMO

Metrology for Thermal Protection Materials

Project Lead: NPL

Project Partners: LNE, PTB, CMI, MKEH



Jiyu Wu, Technical Coordinator

Graham Baker, Project Management Support

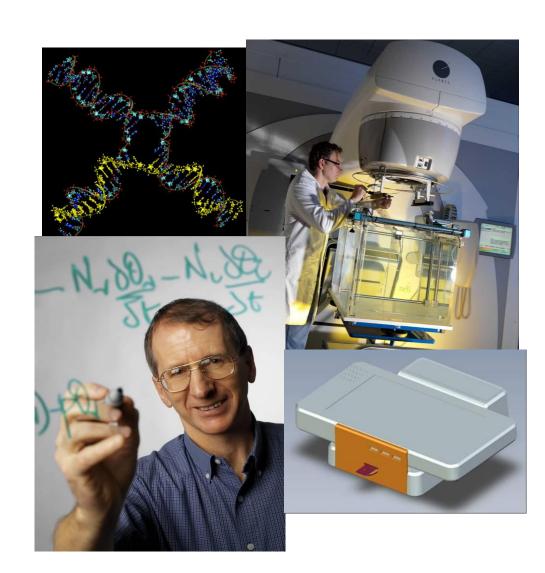
Materials Division, NPL



About NPL ...

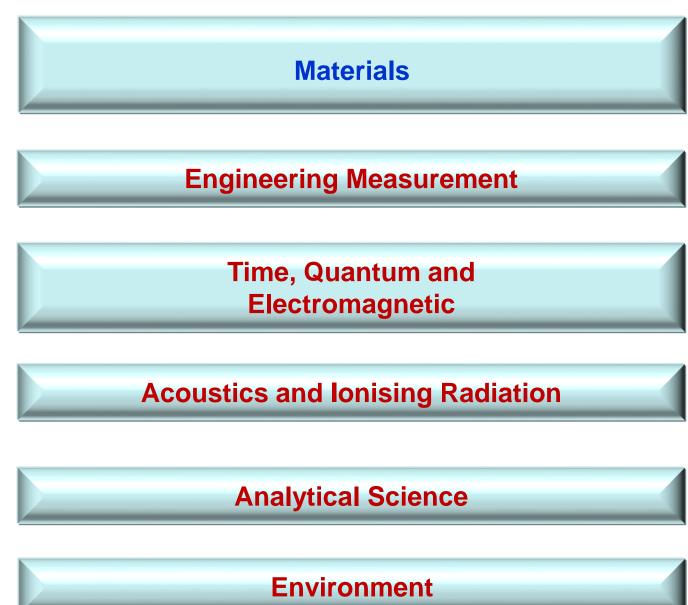


- The UK's national standards laboratory
- Founded in 1900
- UK National Measurement Institute
- 650+ specialists in Measurement Science
- State-of-the-art standards facilities



NPL has 6 Science Divisions:





NPL Materials team

NPL ©

- 100+ Scientists, Engineers and Technicians
- Expertise and facilities in materials measurements
- Develop new measurement techniques
- Adapt existing techniques to new materials
- Close to industry
 - Over 120 companies on Industrial Advisory Groups



Materials Team: 5 Sub-groups



Materials Processing and Performance

Dynamic Thermal Evaluation Polymeric Materials
Composites Nanocomposites

Thermal Properties of Materials and Structures

Advanced Engineered Materials:

Residual Stress and Strain High Temperature Degradation

SHM Nano Mechanics

Tribology Powder Route Materials (PRM)

Microscopy

Electrochemistry

Environment Induced Cracking (EIC) Fuel cells

Photovoltaics Nanoscale EC

Mathematics & Modelling

Materials Modelling Thermodynamics (MTDATA)

FE FD & Genetic Modelling

Circuit cleanness (SIR, SEC) Solder reliability

Component mounting

Functional Materials

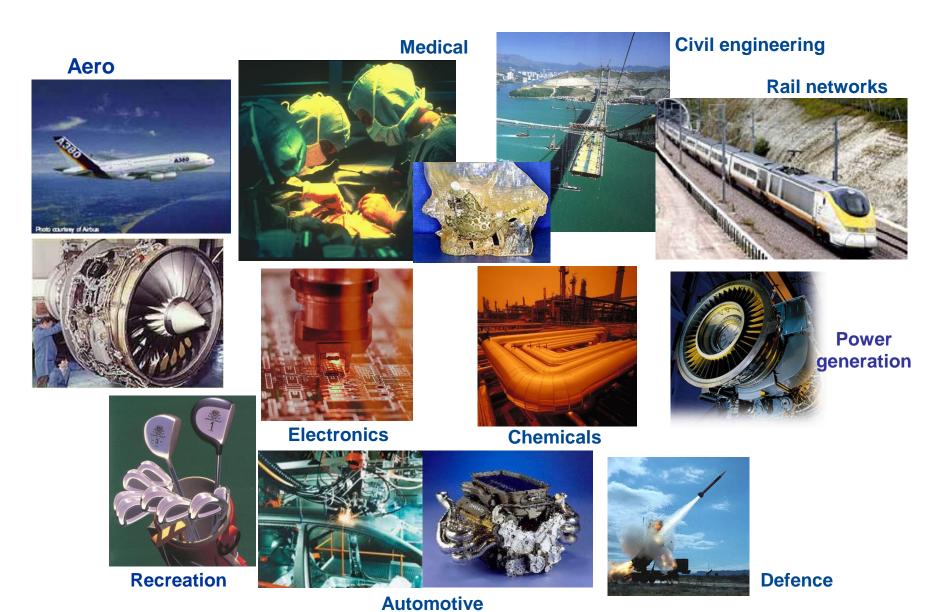
Piezoelectric Materials Thermoelectric Materials

Ferroelectric, Electrocaloric and Multiferroic Materials

Dielectric Materials Magnetic Materials

Materials are critical to the infrastructure, and prosperity of the UK





Enjoy your time at NPL

