

BIOGRAPHICAL INFORMATION

Professor R.H. Clarke, BSc, MSc, PhD, FRCR, FRSA, FSRP

NATIONAL RADIOLOGICAL PROTECTION BOARD, UNITED KINGDOM

Professor Roger Clarke is the Director of the National Radiological Protection Board in the United Kingdom. The Board is the focal point in the United Kingdom for radiation protection research and advice to the government, industry and the public. He joined the Board in January 1978 as Head of Nuclear Power Assessments Department, was appointed Secretary in 1983 and became Director in July 1987.

Professor Roger Clarke was educated at the University of Birmingham in England, where he took a degree in physics and then obtained a masters degree in reactor physics and technology.

In 1965 he started work at the Berkeley Nuclear Laboratories (BNL) of the then Central Electricity Generating Board and for four years worked on reactor physics research, including optimisation of reactor fuel cycles. He then joined the Health Physics Research Section of BNL, where he worked on reactor inventory codes and the establishment of reactor siting and safety codes.

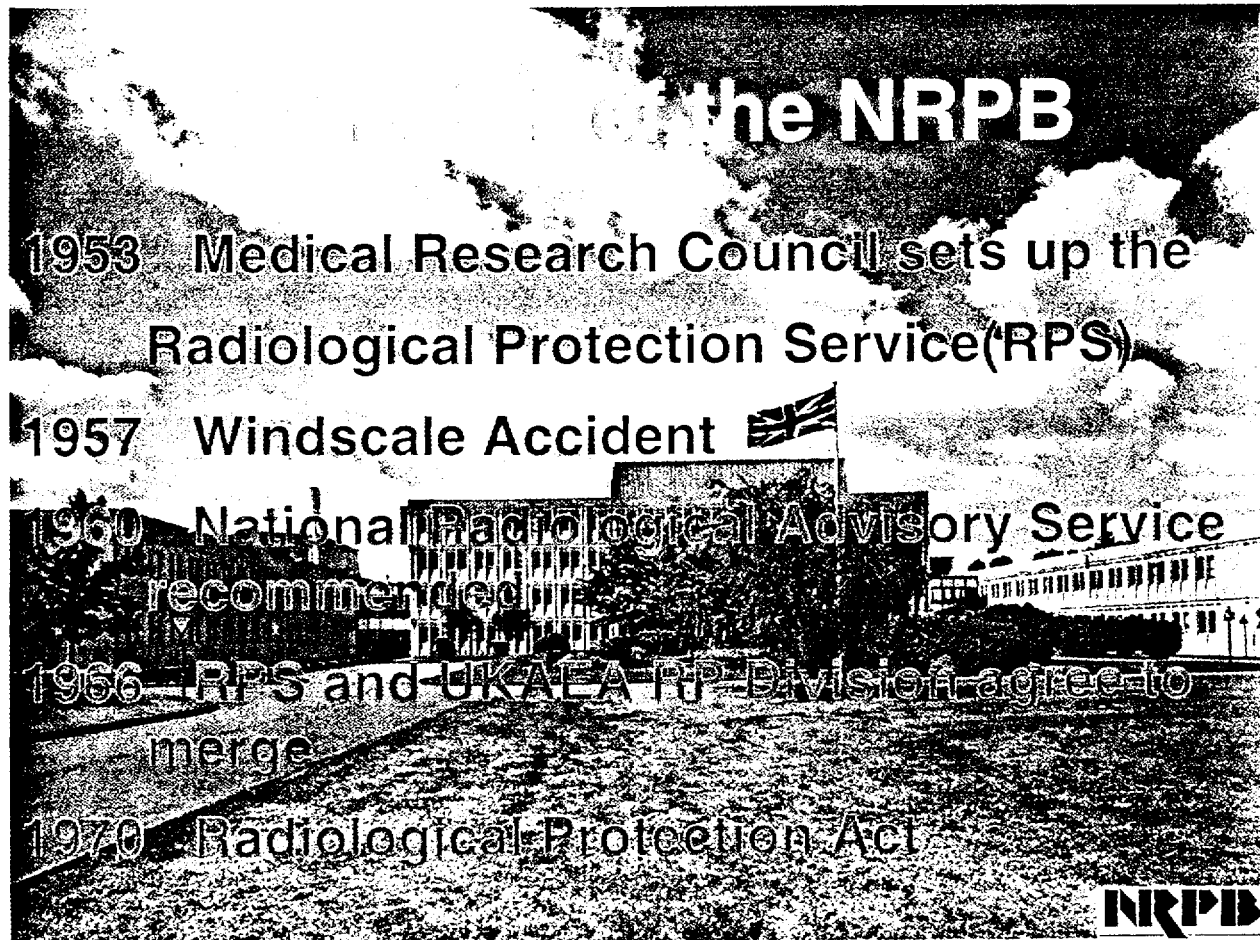
In 1973 Professor Clarke was awarded his PhD from the University of Westminster, London for a thesis on the physical aspects of nuclear reactors in working and public environments. For a number of years he then worked in radiobiology on the implication of non-linear dose-response relationships in radiation carcinogenesis and on the time-dependency of risk.

Professor Clarke has been a member of the International Commission on Radiological Protection (ICRP) since 1989, and its Chairman from 1993 until 2001. He is the UK Representative to the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR), and a member of several Advisory Groups to the European Commission. He chaired the Blue Ribbon Panel reviewing the Radiation Effects Research Foundation on behalf of the Japanese and US Governments.

In the UK, Professor Clarke is a member of several UK Advisory Groups, including the Health and Safety Commission's Ionising Radiations Advisory Committee, and the Medical Research Council's Committee on the Effects of Radiation.

Professor Clarke is a Visiting Professor in the Centre for Environmental Technology at Imperial College of Science, Technology and Medicine, University of London, and Visiting Professor in Radiation and Environmental Protection at the University of Surrey. He has been elected an Honorary Fellow of the Royal College of Radiologists, a Fellow of the Royal Society for the encouragement of arts, manufactures and commerce, and is a former president of, and now Honorary Fellow of, the Society for Radiological Protection.

He has published more than 160 papers and reports in the scientific literature and at conferences. In recent years he has been the recipient of the G. William Morgan award from the Health Physics Society of the USA, and in the UK the Ellison-Cliffe award from the Royal Society of Medicine.



FUNCTIONS of NRPB

By means of research and otherwise to advance the acquisition of knowledge about protection from radiation hazards

To provide information and advice to persons(including government departments) with responsibilities for protection of the community as a whole or sections of it

To provide technical services and to make charges

NRPB

- # **NRPB STRATEGIC AIMS**
- Acting as an informed and reliable resource for government
 - Maintaining expertise and monitoring capability for accident response
 - Developing advice on standards
 - Conducting relevant research to support advice
 - Providing technical advice to users of radiation
 - Training professionals and informing the public

FINANCES of NRPB 2000/01

- **Total Expenditure** £k 14,000
- **Grant (DH and SE)** £k 6,500 (45%)
- **Receipts** £k 7,500
- **Staff** ~ 325

NRPB

SOURCES

(Indicative)

Radiological Protection Services
(Advice, Training)

Personal Dosimetry Services
(TLD, film, extremity, dental)

£k 2000

Radon Monitoring

£k 500

Support for research and
Assessments

£k 2000

NRPB

MAJOR THEMES

Non-ionising radiation

Accident response

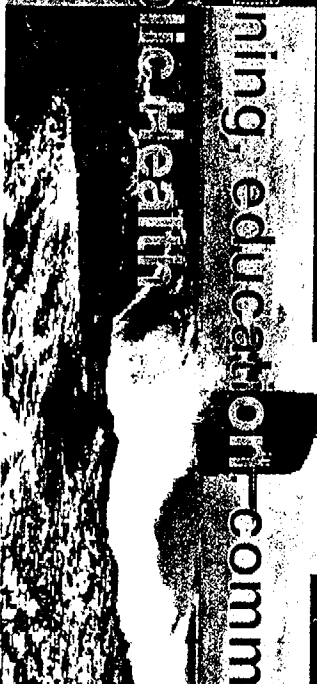
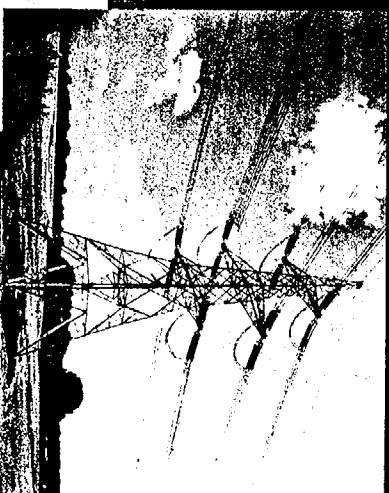
Childhood cancer

Environmental transfer

Radon

Training, education, communication

Public Health



NRPB

Visit of Prof. Roger Clarke, NRPB, to NRC, June 12, 2001

Discussion Items

1. Current activities of the NRPB.

Status of activities related to naturally occurring radioactive materials

NRPB and NRC philosophy on General License registration: thresholds for size of facilities and different types of industrial users.

New publications of the NRPB of interest to NRC?

2. Current issues of the ICRP of interest to NRC.

Objectives of the new ICRP Workgroup on radiological protection of the environment. How does this fit with the ICRP's view that protection of the individual should ensure protection of the environment?

Interactions between NRC's promulgation of Part 35 "Medical use of byproduct material," and the recent ICRP report on medical protection, including updates to the metabolic models and possible changes to unit dose factors.

3. Progress toward new recommendations of the ICRP

Ongoing work to revise the dosimetry from Hiroshima and Nagasaki. This will be of interest to the possible impacts on the relationship of dose to risk, and possible implications to recommendations on the dose limitation.

Status of acceptance of ICRP 60 by other countries.

Insights on the future direction of ICRP guidance?

4. Recent developments concerning the issues of exclusion, exemption and clearance.

Results and implications of the May 28 to June 1 Experts Group meeting in Vienna.

5. The IAEA report on Biosphere Modeling of Yucca Mountain. Any comments?

6. Assessment of alleged health effects associated with use of DU munitions in the Balkans.