



Licensee Develops Technology Crucial to DOE Mission

Los Alamos National Laboratory researchers—Duncan MacArthur, Kraig Allander, and John Bounds—invented a Long-Range Alpha Detection (LRAD) Technology for environmental monitoring and for nuclear decontamination and decommissioning. In 1997, BNFL Instruments licensed LRAD and entered into a Cooperative Research and Development Agreement (CRADA) with the Laboratory to further develop the technology. One of the Los Alamos inventors, Duncan MacArthur, spent a year at BNFL Instruments in the United Kingdom as part of the CRADA.

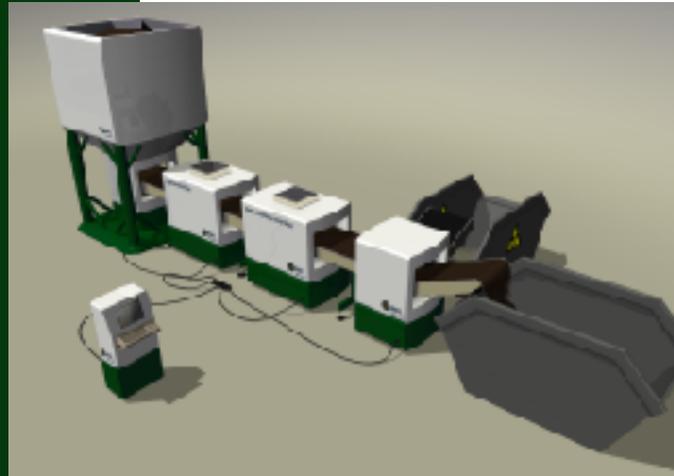
BNFL Instruments, which employs a staff of about fifty in the UK and US, has developed three products based on Los Alamos' LRAD technology:

- IonSens
- IonSens 208 Large Item Monitor

BNFL Instruments is converting LRAD technology into reliable instrumentation to supply the decommissioning, land remediation, and waste management markets. Accurate and efficient radiation monitors are crucial to the Laboratory's core mission.

The IonSens 208 provides contamination measurements of large and complex objects, such as process equipment and bent pipe work.

IonSens Conveyor Monitor



The conveyor monitor facilitates the monitoring of soil and building rubble, permitting categorization of the material as either low level waste or as waste suitable for unrestricted release. This monitor would normally be used by plant operators or decommissioning teams that need to classify and discharge contaminated material for final disposal.



IonSens 208 Large Item Monitor

