

DISTINCTIVE

Decommissioning, Immobilisation and Storage Solutions for Nuclear Waste Inventories

Progress

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UKNADM 2015, Sheffield



Background

- EP/L014041/1, started 10th February 2014 to 9th November 2018 (9 month extension)
- £4.91M EPSRC → total £6.13M, plus £2.23M from industry = £8.36M
- World-class University network:

Imperial College
London



Lancaster
University



Loughborough
University

UNIVERSITY OF
BIRMINGHAM



The
University
Of
Sheffield.


UNIVERSITY OF LEEDS

MANCHESTER
1824
The University of Manchester



- Key project partners:

NATIONAL NUCLEAR
LABORATORY

NDA
Nuclear
Decommissioning
Authority

 Sellafield Ltd

Research Councils UK
Energy
For a Low Carbon Future



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Progress: Research Projects

Theme	PDRA	PhD*
AGR, Magnox and Exotic Spent Fuels (Tom Scott/Nick Evans)	2	6
PuO ₂ and Fuel Residues (Colin Boxall/Nik Kaltsoyannis)	4	8
Legacy Ponds and Silo Wastes (Bill Lee/Joe Hriljac)	3	19
Structural Integrity (Rebecca Lunn)	1	6

*Original and associated

- 49 research projects across four research themes
- Only 2 PhD researchers left to recruit
- Funding to support additional associated projects (attendance at meetings)
- 5 projects require access to active facilities at NNL and elsewhere (three received financial support from 1st Call for Proposals).

Progress: Impact

- Building and Maintaining Relationships & Networks

- Theme Meetings

- Theme 1 – Bristol – 21st October 2015
- Theme 2 – Lancaster – 12th November 2015
- Theme 3 – Birmingham – 17th November 2015
- Theme 4 – Strathclyde – 6th October 2015

- International Advisory Group Meeting – Bristol – 18th April 2016

- Annual Meeting – Bristol – 19th – 20th April 2016 ****SAVE THE DATE****

- Communication & Dissemination

- Website – www.distinctiveconsortium.org
- Bi-annual newsletter
- Four peer-reviewed publications to-date
- Dedicated oral session at WM2016



- Public, Media and Government Engagement

- Outreach activities during Bristol Green City Event (Lead by University of Bristol)
- Upcoming activities:
 - Evening lecture/panel discussion at RAEng
 - Westminster meeting
 - Radio documentary
 - Deliberative workshops
 - Summer school

Summary

- Excellent team of researchers:
 - Significant track-record of success in supporting relevant R&D in nuclear area
- Builds from earlier EPSRC consortia KNOO (Keeping the Nuclear Option Open) and DIAMOND (Decommissioning, Immobilisation and Management of Nuclear Wastes for Disposal):
 - Learning from these consortia input into this new activity
 - Success of earlier consortia gives confidence for this new activity:
 - Supply of researchers into industry
 - Technical developments for deployment
 - General awareness of industry needs
- Expands earlier groupings:
 - Wider coverage
 - Stronger team
 - Larger international profile