DISTINCTIVE Work Package 3: Legacy Ponds and Silos Wastes Overview

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DISTINCTIVE THEMATIC MEETING
17th November 2015
University of Birmingham

Research Councils UK Energy For a Low Carbon Future

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WP3: Aim and Objectives

- **Aim: To develop innovative technical approaches to clean up UK legacy wastes.**
- **Objectives.**
  - **To understand durability of heterogeneous ILW glass/ceramic wasteforms from LP&S wastestreams.**
  - **To develop improved ways to remove radionuclides from solution, both novel inorganic ion exchange solids and tailored binding superparamagnetic nanoparticles, to treat complex and variable effluents.**
  - **To develop new micro- and ultra-filtration methods for sludges.**
  - **To provide three-dimensional modelling and simulation for sludge disturbance, mobilisation and transport, with supportive experimental studies, and manipulation planning for removing corroding nuclear materials.**
  - **To develop a better understanding of gas hold-up in sludges.**
  - **To develop improved techniques for remote monitoring of sludges and heterogeneous wastes.**

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WP 3.3.1 Wasteform Durability

- **Talks**

  Dimitri Pletser (Imperial)

  George Day (Birmingham)

  Luke Boast (Sheffield)

- **Posters**

  Charlie Hutchinson (Imperial)

  Chinnam Rama Krishna (Imperial)

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WP 3.3.2 Effluent Treatment and Analysis

- **Talks**

  Ryan George (Birmingham)

- **Posters**

  Eleanora Cali (Imperial)

  Evin Chen (Birmingham)

  Keith Schou (Loughborough)

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WP 3.3.3 Pond and Silo Sludges

- **Talks**

  Eszter Makkos (UCL)

  Olusola Ayoola (Manchester)

  Alastair Tonge (Leeds)

  Andre Botha (Leeds)

- **Posters**

  Michael Johnson (Leeds)

  Conrad Johnston (QUB)

  Olivia Lynes (Lancaster)

  Derrick Njobuenwu (Leeds)

  Hugh Rice (Leeds)

  Kate Wyness (Bristol)

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Attendees

- 10 of 11 Universities affiliated with DISTINCTIVE
- NNL
- NDA
- Sellafield
- RWM
- Hitachi

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