Research Support Office

Radioactive Waste Management

Welcome to the online launch of the RWM Research Support Office

Welcome


Research
Support
Office


Radioactive Waste
Management


UNIVERSITY OF LEEDS


DEEP
ISOLATION


UNIVERSITY of
STIRLING


University of
HUDDERSFIELD


Environment
Agency


wsp


TWI


UK Atomic
Energy
Authority


The
University
Of
Sheffield.


Engineering and
Physical Sciences
Research Council


PRIFYSGOL
BANGOR
UNIVERSITY


FRAZER-NASH
CONSULTANCY


MANCHESTER
1824
The University of Manchester


NDA


diamond


University of
Strathclyde
Glasgow


Natural
Environment
Research Council


NATIONAL NUCLEAR
LABORATORY


UWE
Bristol

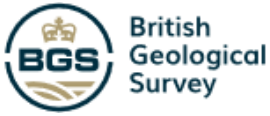

SKB


Imperial College
London


uclan


ONR
Office for
Nuclear Regulation


University of
BRISTOL


BGS
British
Geological
Survey


Lancaster
University


The Open
University


CARDIFF
UNIVERSITY
PRIFYSGOL
CAERDYDD


Science & Technology
Facilities Council

Agenda

Day 1 – 16 September

09:30 Zoom waiting room open prior to conference

10:00 Welcome – Professor Katherine Morris (RWM RSO Director and University of Manchester)

10:15 RWM aim and mission – Lucy Bailey (RWM)

10:40 Introduction to the RWM Research Support Office – Prof Neil Hyatt (RWM RSO and University of Sheffield)

11:10 Questions to RSO/RWM panel

11:40 Break

12:00 RWM siting process and research programme – Jon Martin (RWM)

12:30 Community discussion and feedback

13:00 Close day 1

Agenda

Day 2 – 17 September

09:30 Zoom waiting room open prior to conference
10:00 Launch of RWM RSO 2021 PhD project fund – Prof Sam Shaw (RWM RSO and University of Manchester)
10:15 Questions
10:25 Research presentations from 3 current RWM funded projects

The Effect of Compositional Differences on UK Radioactive Glass Durability –
Professor Ian Farnan (University of Cambridge)

Organic fingerprinting of groundwater to determine surface water origins –
Professor Becky Lunn (University of Strathclyde)

In-situ analysis techniques to understand the behaviour of waste and backfill materials in a GDF environment –
Professor Tom Scott (University of Bristol)

11:25 Panel questions and discussion
11:35 Break
11.45 Plenary Talk *Interplay between research and safety assessment in the Swedish programme for spent nuclear fuel* –
Dr Allan Hedin (Manager of Safety Assessments at SKB, Sweden)
12:30 Questions and discussion
12:45 Close day 2

Agenda

Day 3 - 18 September

09:20 Zoom waiting room open prior to conference
09:30 Opening remarks - Katherine Morris (RWM RSO Director and University of Manchester) and Lucy Bailey (RWM)
09:35 Technical introduction – Simon Norris (RWM)
09:55 Introduction to the Workshops - Katherine Morris

Participants will work in small groups to develop ideas for strategic research proposals, which will be used to shape an RWM RSO Funding Call in the area of Gas Generation and Gas Migration. People can attend 2 of the following 4 areas:

- Gas Generation: Inorganic Processes
- Gas Generation: Organic/Bio
- Gas Migration and Reactivity: EBS System
- Gas Migration and Reactivity: Geosphere/Biosphere

10:05 Breakout Session A
11:20 Break
11:30 Breakout Session B
12:40 Break
13:00 Way forward and next steps – Simon Norris (RWM)
13:10 Reflection and closing remarks – Lucy Bailey (RWM)
13:20 Close day 3

Research proposal development workshop:
"Gas Generation, Migration and Reactivity in Radioactive Waste Disposal"

Research Support Office

The UK's GDF

Radioactive Waste Management

RSO Aims

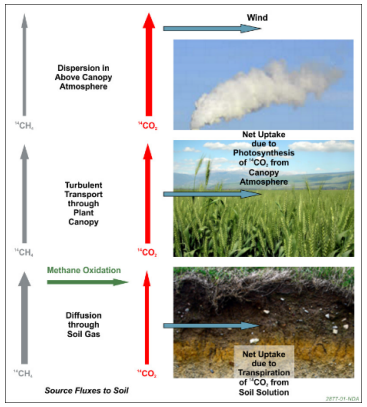
- Deliver world-leading research from the UK's academic research community that will underpin the safety case for a geological disposal facility;
- Support UK universities to access geodisposal research funding that will underpin our geological disposal programme;
- Develop the next generation of geodisposal research expertise to support the national programme.

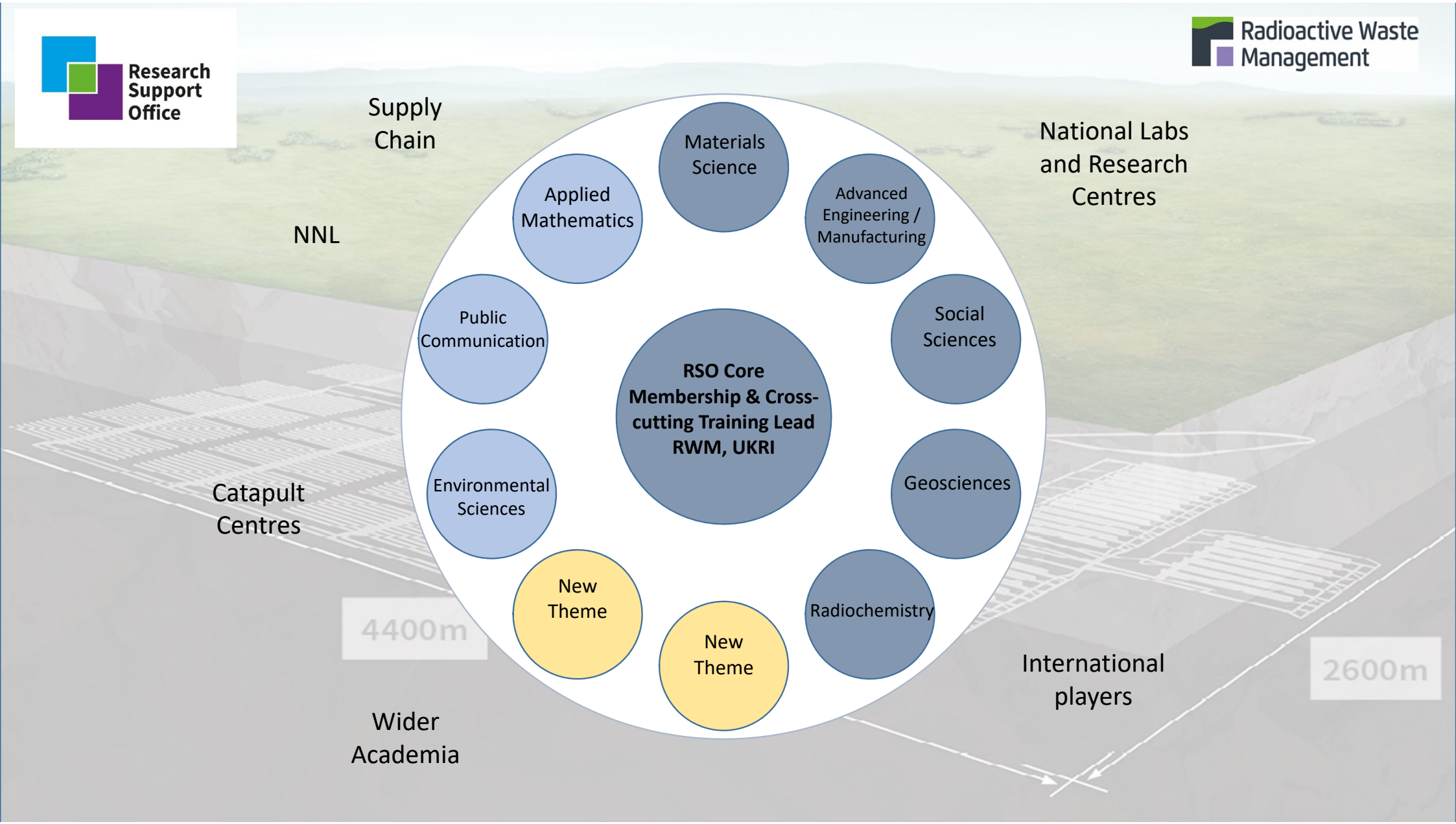
Research Support Office

Radioactive Waste Management

(Zoom) RSO Launch Aims

- Explain the RSO and its activities to our community and get feedback
  - Q&A sessions / Evaluation forms / Core team
- Share experiences of work in radioactive waste management to prime our community
  - Alan Hedin, Ian Farnan, Rebecca Lunn, Tom Scott
- Get things moving in 2020/2021
  - Discipline Lead call: Environmental science, Applied Mathematics, Public Communication of Science.
  - PhD Bursary Scheme.
  - Gas Generation, Migration, and Reactivity Workshop.




Research Support Office
Radioactive Waste Management
Supply Chain
National Labs and Research Centres
NNL
Catapult Centres
Wider Academia
International players
Materials Science
Applied Mathematics
Advanced Engineering / Manufacturing
Public Communication
Social Sciences
RSO Core Membership & Cross-cutting Training Lead RWM, UKRI
Environmental Sciences
Geosciences
New Theme
New Theme
Radiochemistry
4400m
2600m

Discipline Lead Call

- Call open: 9 Sept 2020; close date: 11 Oct 2020
  - Applied Mathematics - modelling and understanding of uncertainty
  - Environmental Science - climate modelling, bio-toxicity & uptake
  - Public Communication of Science
- Work closely with other Discipline Leads and RWM subject matter experts to assist the community in developing high quality, relevant research projects
- 2-page application form plus 2-page CV

https://www.research-support-office-gdf.ac.uk/2020/09/09/academic-leadership/

Discipline Lead Call Criteria

- Knowledge of and profile in the relevant research discipline
- Expertise relevant to delivery of the role
- Approach to working in a team capacity
- Track record of relevant public and professional engagement
- Strategic insight into the delivery of the GDF project

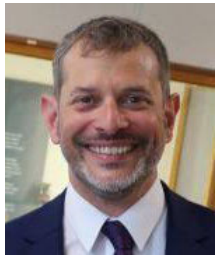
People in the RSO

Core Team

Katherine Morris
Env Radioactivity
Academic Lead

Lucy Bailey
RWM Lead

Sam Shaw
Env Mineralogy
Manchester Lead



Neil Hyatt
Radioactive Waste Management
Sheffield Lead

Helen Bayram
Project Manager

Sam Roberts
Project Administrator

rso-gdf@manchester.ac.uk

People in the RSO

Discipline Leads

Sarah Heath
University of Manchester
Training Lead

Claire Corkhill
University of Sheffield
Materials Science

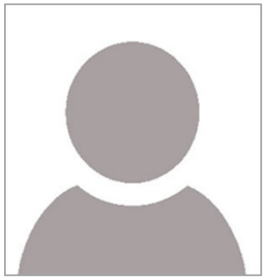
Steve Jones
Nuclear-AMRC
Advanced
Manufacturing

Francis Livens
University of Manchester
Radiochemistry

Kevin Taylor
University of Manchester
Geosciences

Richard Taylor
University of Manchester
Social Sciences

Discipline Lead
Applied Mathematics



Discipline Lead
Environmental
Science

Discipline Lead
Public Communication
of Science

RWM RSO – Open Door

- Expansion in community of geodisposal researchers
- Networking, collaboration, partnership across disciplines
- Increased high quality research underpinning GDF safety case development
- Building trust to deliver engagement / support across RWM, Academics and UKRI to underpin GDF implementation

RSO management