

Radioactive Waste Management Research Support Office

# Annual Conference

## 15-16 September 2021

# Agenda

## Day 1 – 15 September

**09:00** Registration and coffee

**09:50** Housekeeping – *Helen Bayram* (RSO Project Manager)

**10:00** Welcome –*Katherine Morris (RWM RSO Director) and Lucy Bailey (Head of the RSO)*

**10:05** Update on progress of the GDF programme and forward vision – *John Corderoy (RWM)*

**10:25** Highlights from the RSO, decision making process and upcoming opportunities –*Katherine Morris (RWM RSO Director) and Lucy Bailey (Head of the RSO)*

**10:45** Questions to RSO/RWM panel

**11:00** Break

**11:15** Discipline updates 1

* Materials – Claire Corkhill / Amy Shelton
* Social Sciences – Adrian Bull / Steve Brown
* Environmental – David Copplestone / Kat Raines
* Advanced Manufacturing - Steve Jones / Richard Hardy

**12:15** Technical presentations 1 – Chair David Copplestone

* Effects on permeability of rock fracture geometry and fluid/rock temperature contrast - *Gonҫalo Cunha (University of Edinburgh)*
* The Microbial Impact on Cellulose Hydrolysis in a Cementitious Geological Disposal Facility - *Naji Bassil (University of Manchester)*
* Radionuclide biogeochemistry during sulfidation - *Luke Townsend (University of Sheffield)*

**13:00** Lunch and poster session

**14:30** Funding opportunities – *Katherine Morris and Sam Shaw*

PhD bursary call; overview of the application process and introduction of topics. RWM Subject Matter Experts on hand for any Q&A

LSSR workshop introduction

**15:15** Introduction to ViSI system, with hands on demonstrations – *Oliver Hall and Lucia Gray (RWM)*

**15:45** Coffee - During this break there will be a Bus Stop poster communication exercise for PhD students

**16:45** Bus stop posters review and feedback

**17:30** Dalton nuclear futures game activity with pre-dinner drinks

**19:00** Conference dinner

## Day 2 – 16 September

**Coffee available from 8:30**

**09:00** Welcome - *Katherine Morris (RWM RSO Director) and Lucy Bailey (Head of the RSO)*

**09:05** Plenary Talk, An Overview of the Paul Scherrer Institute Laboratory for Waste Management Activities in Support of the NAGRA Research and Development Program – *Sergey Churakov (Paul Scherrer Institute)*

**10:00** RWM siting in the local community

**10:30** Coffee

**10:45** Technical presentations 2 – Chair Becky Lunn

* Potential functionality of a geological disposal facility digital twin- *Kristof Bartha (University of Manchester)*
* Corrosion and Leaching of Carbide Fuels - *Dimitris Samaras (University of Bristol)*
* Plutonium - *Lewis Blackburn (University of Sheffield)*
* Estimating the long term behaviour of vitrified nuclear waste: a natural analogue approach - *Clare Thorpe (University of Sheffield)*

**11:45** Poster session: Overview of national research infrastructure including NNUF, DCF, and NERC facilities

**12:30** Lunch

**13:30** Discipline updates 2

* Radiochemistry – Francis Livens / Will Bower
* Geotechnical / Engineered barriers – Majid Sedighi / Matthew Kirby
* Applied Maths – Robert Zimmerman / Oliver Hall
* Geosciences – Kevin Taylor / Sally Thompson
* Gas – Kath Morris / Simon Norris / Andy Cooke
* Sub-surface Engineering - Becky Lunn / Dan Garbutt

**15:00** Closing remarks

**15:15** Coffee / close