**Agenda**

|  |  |  |
| --- | --- | --- |
| **Tuesday 1st November** | | |
| **Time** | **Title** | **Presenter** |
| 10:00 Registration / Poster Board set up / Refreshments | | |
| 10:30 | Introduction and Housekeeping | Prof Michael Fairweather  University of Leeds |
| **Session 1** *Chairs: Prof Tom Scott, University of Bristol, Marco Sacchi, University of Surrey, David Hambley, NNL* | | |
| **10:40** | **Working for the Nuclear Decommissioning Authority** | **Rick Short**  **NDA** |
| 11:10 | Combining electrokinetic remediation with colloidal silica grouting in radioactively contaminated soils | Gea Pagano  University of Strathclyde |
| 11:30 | Understanding caesium's effect on the CAS system due to vitrification | Lucas-Jay Woodbridge  University of Sheffield |
| 11:50 | Advanced in situ characterisation of suspensions with acoustic backscatter | Joe Hartley  University of Leeds |
| 12:10 | The surface point defect of ThO2 {111} effect on water adsorption | Xiaoyu Han  University of Manchester |
| 12:30 Lunch & Poster Session | | |
| **Session 2**  *Chairs: Prof Rebecca Lunn, University of Strathclyde, Prof Andy Cundy, University of Southampton, Ed Butcher, NNL* | | |
| **13:30** | **The role of drag in sedimentation modelling of flocculated inorganic/organic composite nuclear waste suspensions** | **Alex Lockwood**  **Sellafield Ltd** |
| 14:00 | Electrokinetic Remediation and Decommissioning – an update on current work | Frances Burrell  University of Southampton |
| 14:20 | Leaching behaviour of concrete with Substitute Clinker Materials in deionised water | Andrea Kozlowski  University of Strathclyde |
| 14:40 | Vacuum Drying of Spent AGR Fuel | Thomas Bainbridge  University of Leeds |
| 15:00 | Helium diffusion and clustering in PuO2 | Elanor Murray  University of Birmingham |
| 15:20 Refreshments & Poster Session | | |
| 15:50 | Engineering dual-phase zeolite composites for remediation of aqueous nuclear decommissioning waste | James Reed  University of Birmingham |
| 16:10 | Using X-Rays to observe corrosion of uranium carbide in groundwater simulant | Dimitris Samaras  University of Bristol |
| 16:30 | Blind tube monitoring instrument: point-spread analysis of photon-depth spectra | Soraia Elisio  Lancaster University |
| 16:50 Break | | |
| 19:00 | Drinks & Canapés Reception | The Trades Hall |
| 20:00 | Dinner | The Trades Hall |

|  |  |  |
| --- | --- | --- |
| **Wednesday 2nd November** | | |
| **Time** | **Title** | **Presenter** |
| 08:30 Registration / Poster Board set up / Refreshments | | |
| 09:00 | Introduction and Housekeeping | Prof Michael Fairweather  University of Leeds |
| **Session *3***  *Chairs: Prof Fred Currell, University of Manchester, Dr Claire Corkhill, University of Sheffield, Robin Orr, NNL* | | |
| **09:10** | **From PhD to NT: The Role of a Nuclear Consultant** | **Darryl Messer**  **Tuv-Sud** |
| 09:40 | Comparing the efficacy of U and Ce as analogues for Pu in the durability of zirconolite ceramics and glass-ceramic composites | Claire Corkhill  University of Sheffield |
| 10:00 | Radiation effects on nuclear waste forms: How does the crystallinity of a glass composite affect radiation tolerance? | Tamas Zagyva  The University of Manchester |
| 10:20 | Assessing the strength of biomineral strategies for concrete repairs | Thanos Karampourniotis  University of Strathclyde |
| 10:40 | Thermal Treatment of Intermediate Level Waste | Daniel Parkes  University of Sheffield |
| 11:00 Refreshments & Poster Session | | |
| 11:30 | Characterisation of uranium metal encapsulated in magnox sludge | Phil Hutchinson,  University of Bristol |
| 11:50 | Effect of shear rate and surface potential on particle interaction and aggregation in nanofluids | Lee Mortimer  University of Leeds |
| 12:10 | The application of electrokinetics for the remediation of difficult-to-measure radionuclides at nuclear sites | Shaun Hemming  University of Southampton |
| 12:30 | Synthesis and Characterisation of Fe-doped Zirconolite as Potential Host Matrices for Pu immobilisation | Merve Kuman,  University of Sheffield |
| 12:50 Lunch and Poster Session | | |
| **Session 4** *Chairs: Prof Colin Boxall, Lancaster University, Prof Paul Bingham, Sheffield Hallam University, James Graham, NNL* | | |
| **14:00** | **Living the Sellafield Ltd mission: creating a clean and safe environment for future generations** | **Steve Hepworth & Alex Lockwood**  **Sellafield Ltd** |
| 14:30 | Electrochemical investigation of PuO2 thin  films | Dominic Laventine  Lancaster University |
| 14:50 | Emission Control and Monitoring from Thermal Treatment of ILW | Alex Stone,  Sheffield Hallam University |
| 15:10 | Comparison of the patterns for DIC in an in-situ SCC experiment | Kuo Yuan  University of Bristol |
| 15:30 Refreshments & Poster Session | | |
| 16:00 | **The NNL Post-Doctoral Programme – An Early Career Researchers Perspective** | **Ruth Davey**  **NNL** |
| 16:20 | **Nuclear Waste Services - Cleaning up our past, enabling the future** | **Rosie Hibberd**  **NWS** |
| 16:40 | NDA PhD students awards | Rick Short  NDA |
| 16:45 | Closing remarks | Prof Michael Fairweather  University of Leeds |

**All presentations will be made available to download from our consortium website: transcendconsortium.org**