

TC05 Waste Vitrification

Tuesday 6th September

900	Ian Pegg	Glass Formulation Optimisation for Treatment of Nuclear Wastes
940	Richard Pokorny	Conversion of nuclear waste melter feed into glass: Development and application of the cold cap mathematical model
1000	Kunihiko Nakano	Investigation of volatile constituents migration during vitrification using small scale melter
1020	COFFEE	
1100	Toshiro Oniki	Development of glass melting process for LLW-Glass formulation testing to be compatible with composition changes
1120	Pavel Hrma	Feed-to-melt conversion process
1140	Hirohide Kofuji	Vitrification properties of MA adsorbents
1200	Stephane Lemonnier	Development of in-can melting process applied to the vitrification of high activity waste solutions (HAWs): Glass characterisation and process test results
1220	LUNCH	
1320	Damien Perret	Glass formulation approach for mixed waste treatment using PIVIC incineration-vitrification In Can process
1340	Shengheng Tan	Vitrification of intermediate level Magnox sludge nuclear waste containing metals
1400	Mike Harrison	Product quality assessment of alternative glass waste formulations for vitrification of nuclear waste streams containing high concentrations of sodium
1420	Katsushige Komatsu	Search of vitrification matrix with high-loading capacity-change of chemical durability and MoO ₃ solubility with B ₂ O ₃ and Al ₂ O ₃ contents
1440	Jack Clarke	Vitrification as a means of reworking problematic cemented nuclear waste forms
1500	Michael Ojovan	Fundamentals of the glass transition and vitreous materials for nuclear waste immobilisation
1520	COFFEE	
1600	Tetsuji Yano	Development of the aluminoborosilicate glass system with high-loading capacity of HLW using a new combinatorial approach
1620	Sean Barlow	Glass formulations for Magnox sludge immobilisation
1640	James Stevens	Underpinning the transition from MW to Ca/Zn glass frit for HLW vitrification on UK WVP

Wednesday 7th September

900	Laurence Galoisy	Zirconium as local probe for oxide glass and glass-ceramic structures
940	Olivier Pinet	Role of noble metals in nuclear glass properties
1000	Guillaume Barba Rossa	The transport and settling of platinum-group metal particles in glass melts
1020	COFFEE	
1100	Elise Regnier	Ag-solubility in borosilicate nuclear glass
1120	Maria Chromcikova	Thermodynamic model and selected physical properties of glasses for Chrompik vitrification
1140	Jamie Weaver	Chemometric Determination of the Localized Chemistry of 99Tc in Vitrified Nuclear Waste Glasses
1200	Jae-Young Pyo	Tellurite glasses for immobilization of Tc-99 from pyro-processing technology
1220	LUNCH	
1320	Nolwenn Chouard	Challenging elements incorporation in nuclear borosilicate glass : the French formulation experience
1340	Toshiaki Ohira	MoO ₃ solubility in alkali-borosilicate melts: Implications to yellow phase separation in high-level waste glass
1400	Michal Miekina	Immobilisation of Mo and Zr rich nuclear wastes in borosilicate glasses
1420	Shuchi Vaishnav	Multi spectroscopic characterisation of binary and ternary silicate glasses doped with sulphate and chloride ions
1440	Tsuyoshi Usami	Solidification of nuclear waste containing molybdenum and sulfur
1500	Miae Kim	Borate glasses with high rare-earth oxides waste loading
1520	COFFEE	
1600	John McCloy	In-Situ Crystallization Experiments of Nuclear Waste Glass Ceramics
1640	Victoria Brown (Oldfield Award 1st)	Immobilisation of actinides: a study on the effect of chlorine contamination on hot isostatically pressed zirconolite containing glass ceramics
1700	Magda Kosmal	The kinetics of fresnoite crystal growth in glass waste

Thursday 8th September

900	Marek Liska	Thermodynamic model and viscosity of glasses for Chrompik vitrification
920	Owen McGann	The application of novel 'Hazmelt' waste vitrification technology to the vitrification of 'Magnox Sludge' simulant waste and other ILWs.
940	Mariona Tarrago Aymerich	Incorporation of P and Ca in basaltic glass: application to waste management
1000	Ilyes Ben Kasem	The role of Al and Ca on properties and structural variation in lead silicate glasses and melts
1020	COFFEE	
1100	Claire Corkhill	An evaluation of the mechanisms and kinetics of UK simulant nuclear waste glass dissolution under high pH conditions
1140	Yoshiyuki Miura	Study for composition dependence of chemical durability of high waste loading simulated HLLW glass
1200	Daniel Backhouse	Is the International Simple Glass a Valid Analogue for the Dissolution of UK High-Level Waste Glass at High-pH?
1220	LUNCH	
1320	James Neeway	Recent Advances in the Understanding of Nuclear Waste Glass Durability through the Use of Stable Isotopes.
1400	Adam Fisher	Measurement of the forward dissolution rate of the International Simple Glass using the single-pass-flow-through method
1420	Colleen Mann	Interactions between simulant vitrified nuclear wastes and idealised cement leachates
1440	Jean-Marc Delaye	Structural and mechanical property changes under ballistic effects in borosilicate glasses: a classical molecular dynamics study
1500	Nikos Galanakis	Using topological methods to characterize radiation damage effects in iron phosphate glasses
1520	COFFEE	
1600	Jamie Weaver	Application of Research into Ancient Glasses to the Development of a Long-Term Glass Corrosion Mechanism for Vitrified Nuclear Waste
1620	Elzbieta Greiner-Wronowa	Study of corroded glass-metal joints from archaeological excavation as well as from museum exposition
1640	Alexandra Rodrigues	The Glass Collection of King Ferdinand II Portugal: A ToF-SIMS study of glass corrosion
1700	Teresa Palomar	The role of marine ions in the aqueous alteration of silicate glasses
1720	Clare Thorpe	Leaching methodologies to evaluate the durability of Intermediate Low Activity Waste (ILAW) glasses