

1. Introduction -Background to and Aims of the Fifth GEOTRAP Workshop -Scope of the Workshop and Definitions -Structure of the Synthesis 2. Workshop Achievements and General Observations -Workshop Achievements and Observations on Workshop Organisation -The Importance of an Iterative Approach -The Importance of Retention Processes -Development of Understandng of Retention Processes -Representation of Retention Processes in Performance Assessments -The Regulatory View of the Representation of Retention Processes 3. Observations on Specific Retention Processes -Introductory Comments -Sorption -Matrix Diffusion -Colloid-Facilitated Radionuclide Transport -Immobilisation 4. Recommendations 5. Concluding Remarks -Annex 1. Structure and Programme of the Workshop -Annex 2. Conclusions of Working Group 1: Sorption -Annex 3. Conclusions of Working Group 2: Matrix Diffusion -Annex 4. Conclusions of Working Group 3: Colloid-**Retention Processes** -Annex 5. Conclusions of Working Group 4: Immobilisation -Annex 6. Conclusions of Working Group 5: Conclusions and Synthesis of GEOTRAP and Proposals for Follow-Un PART B. WORKSHOP PROCEEDINGS Session I. Fundamental Understanding of Individual **Retention Processes** -How Geologist View Retention by M. J. Heath -Molecular Scale Obsevations and Models of Sorption Reactions by James A. Davis -Matrix Diffusion: Heavy-Tailed Residence Time Distributions and Their Influence on Radionuclide Retention by Roy Haggerty -The Role of Colloids in Radionuclide Tetention by and Transport through Geologic Media by Bruce D. Honeyman -Immobilisation: Molecular Scale Observations of Processes Relevant to attenuation of Radioactive Contaminants by Susan L. S. Stipp -Isotope Factionation Effects in Radionuclide Transport in Geologic Disposal of Nuclear Waste by William M. Murphy and David A. Pickett Session II. Geologic and Field Evidence for Retention Processes and their Representation in Models -Evidence for Retention Processes in the Tracer Retention Understanding Experiments (TRUE) by Anders Winberg -Do We See In Situ Sorption? Can Useful Information Be Derived for Migration Modelling? by Juhani Suksi, Kari Rasilainen, Cecile Le Guern and Timo Ruskeeniemi -Evidence for Matric Diffusion in the TRUE-1 Block and Aspo Basedon Fracture Characterisation and Modelling of Tracer Tests by Martin Mazurek and Andreas Jakob -Solute Immobilisation: Observations for Natural Analogue Studies by John A. T. Smellie Session III. Consideration and Representation of Retention Processes in Performance Assessments and Justification of Treatment

-The consideration and Representation of Retention



OECD Territorial Reviews: Småland-Blekinge, Sweden 2012 Processes in Performance Assessments Carried Out by Waste Management Organisations: What Has Been Done and Why? by Jurg Schneider, Bernhard Schwyn, Piet Zuidema, Hiroyuki Umeki and Paul Smith -The Consideration and Representation of Retention Processes in Performance Assessment: A Regulatory Perspective by Budhi Sagar and Bo Stromberg -The Consideration and Representation of Retention Processes in the WIPP Performance Assessment: Justification of Adopted Approaches and Interaction with the Regulator

--Part I. Chemical Retardatiuon of Dissolved Actinides by Laurence H. Brush, Charles R. Bryan, Lucy C. Meigs, Hans W. Papenguth, and Palmer Vaughn

--Part II. EPA Review PRocess and Approval Justification by Charles Byrum and R. Thomas Peake PART C. POSTER SESSION

-Effects of Hertogeneous Porosity on Retention: Results from the TRUE Laboratory Experiments by Johan Byegard, Mats Skalberg, Henrik Widestrand, and Eva-Lena Tulborg

-Immobilisation and Retention Processes of Uranium in Tertiary Argillaceous Sediments (Czech Republic) by Ales Laciok, Mirek Hercik, Ulrich Noseck and Thomas Brasser

-Colloid Retention in Aspo Crystalline Rock: A Generic Computational Assessment by Georg A. Lindgren and Vladimir Cvetkovic

-Comparison of Formation Factor Logs Obtained by Electrical Methods In Situ and at Laboratory by Mortin Lofgren, Yvonne Ohlsson and Ivars Neretnieks -Modelling of Colloid-Facilitated Contaminant Transoprt

with the Computer Code TRAPIC: Theoretical Basis and Application by Ulrich Noseck and Dietmar Klotz -Matrix Diffusion: Through-Diffusion versus Electrical

Conductivity Measurements by Yvonne Ohlsson, Martin Lofgren and Ivars Neretnieks

-Discordance in Understanding of Isotope Solute Diffusion and Elements for Resolution by Claudio Pescatore

-Determination of Natural Uranium Concentration in Boom Clay: Effect of Different Extraction Techniques by Lian Wang, M. De Craen, N. Maes, P. De Canniere, M. Put, and A. Dierckx List of Participants

Back 📥