

[MA1] Radionuclide Analysis for Geological Disposal	
Date / Time	September 7 (Mon.), 2026 / 13:00~16:00
Place	Room A (Grand Hall)
Chairpersons	Prof. Yongheum Jo (Hanyang University), Dr. Tae-Hyeong Kim (Korea Atomic Energy Research Institute)

[MA1_1] 13:00~13:20

Controlled Preparation of ^{237}Np Species and Thermodynamic Study of Np(V)–Isosaccharinate Complexation

So Yeon Chun, Wansik Cha, Hye-Ryun Cho, Hee-Kyung Kim

Korea Atomic Energy Research Institute

[MA1_2] 13:20~13:40

Concrete Barrier Performance in Controlling Radionuclide Migration in the Gyeongju LILW Repository

Hyeonjin Eun¹, Hyeongjin Kim¹, Jisoo Jung¹, Seungmo Yeon¹, Hee-Kyung Kim², Jong-Il Yun¹

¹Korea Advanced Institute of Science and Technology, ²Korea Atomic Energy Research Institute

[MA1_3] 13:40~14:00

Spectroscopic Insight into the Structural Evolution of Amorphous Wasteforms and the Immobilisation of Radioactive Wastes

Byoungkwan Kim^{1,2}, Brant Walkley², Dinu Iuga³, Daniel A. Geddes⁴, John L. Provis⁴

¹Korea Atomic Energy Research Institute, ²The University of Sheffield, ³University of Warwick, ⁴Paul Scherrer Institute

[MA1_4] 14:00~14:20

Effect of Magnesium Ion Concentration on the Fluorescence Characteristics of Uranyl-Phosphate Complexes Measured by Time-Resolved Laser Fluorescence Spectroscopy

Seungmo Yeon, Jisoo Jung, Jong-Il Yun

Korea Advanced Institute of Science and Technology

[MA1_5] 14:40~15:00

Niobium(V) Solubility in Cementitious Conditions Relevant to LILW Repository

Dongyeong Kim, Yongheum Jo

Hanyang University

[MA1_6] 15:00~15:20

Spectroscopic Study of Eu(III) Complexation with Polycarboxylate Ether under Alkaline Conditions

Hyeongjin Kim¹, Jisoo Jung¹, Hyeonjin Eun¹, Hee-Kyung Kim², Jong-Il Yun¹

¹Korea Advanced Institute of Science and Technology, ²Korea Atomic Energy Research Institute

[MA1_7] 15:20~15:40

Experimental and Modeling Study of Colloid-Facilitated Transport of Cs(I), Sr(II), and La(III) in Bentonite Colloid-Granite Systems

Junhyuk Ha, Jun-Yeop Lee

Pusan National University

[MA1_8] 15:40~16:00

A Comprehensive Thermodynamic Dataset for the Sorption of Highly Soluble Fission Products onto Bentonil-WRK Clay and Their Migration Modeling

Seonggyu Choi^{1,2}, Dageong Seong³, Hyun-Kyu Lee¹, Sang-Ho Lee^{1,2}

¹Korea Atomic Energy Research Institute, ²University of Science and Technology, ³Chungnam National University