

No.	Conference, Workshop, Journal etc.	Title	Author (○ : First Author) Abbreviations of authors' affiliations are listed at the bottom of the page.	Abstract
1	Rock Mechanics Bulletin: Chinese Society for Rock Mechanics & Engineering, August 2023	Current status of the geological disposal programme and an overview of the safety case at pre-siting stage in Japan	○Tetsuo Fujiyama, Kenichi Kaku	This report presents the current status of the geological disposal programme in Japan, together with the status of the Literature Survey which is currently being conducted at Suttu Town and Kamoenai Village in Hokkaido, and an overview of the NUMO safety case that was developed to enhance the public's understanding of how to implement safe geological disposal in Japan based on the latest scientific knowledge and technology.
2	Migration2023	OVERVIEW OF THE JAPANESE RADIOACTIVE WASTE DISPOSAL PROJECT	○Ayaka Koike, Keisuke Ishida, Kenichi Kaku	As introduction to the progress of Japan's geological disposal project, the progress of the literature survey being conducted in Suttu Town and Kamoenai Village as a recent initiative, an overview of the NUMO safety case, and the results of the review by OECD/NEA were reported.
3	Sumglass 2023 (3rd Summer School on nuclear and industrial glasses for energy transition)	Structure and Dynamics of Hydrated Silicate Gels by Molecular Dynamics Calculations	○Takuma Hatori ¹ , Takahiro Ohkubo ¹ , Ryuta Matsubara ² , Keisuke Ishida ² (1. Chiba University (JP), 2. NUMO)	The alteration layer that forms on the surface of the nuclear waste glass plays a crucial role in controlling the long-term dissolution behavior. To accurately predict this behavior, it is essential to understand the chemical structure and mass transfer characteristics within the alteration layer. In this study, molecular dynamics (MD) calculations, which can model realistic atomic structures, were conducted to evaluate the alteration layer's structural properties and the water molecules' kinetic properties.

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4	Sumglass 2023(3rd Summer School on nuclear and industrial glasses for energy transition)	Predicting alteration layers volume for the glasses with various glass composition	○Ryuki Kayano ¹ , Takahiro Ohkubo ¹ , Ryuta Mastubara ² , Keisuke Ishida ² (1.Chiba University (JP) , 2. NUMO)	The alteration layer forms on the surface of the nuclear waste glass due to release of the soluble elements (i.e. B). It is known that the chemical structure and volume of the alternation layer vary with different dissolution conditions, such as solution and glass compositions and reaction time. This study explored a method of predicting the alteration layers volume via experimental and modeling approaches aided by a machine-learning.
5	Journal of Environmental Radioactivity	Assessment of soil-soil solution distribution coefficients of global fallout ²³⁷ Np and ²³⁹ Pu in Japanese upland soils	○Jian Zheng ¹ , Keiko Tagami ¹ , Shigeo Uchida ¹ , Sanae Shibutani ² , Keisuke Ishida ² , Takafumi Hamamoto ² (1. QST, 2. NUMO)	By establishing a highly accurate method for trace analysis of Pu and Np in soil, for the first time, we were able to obtain distribution coefficients in Japanese upland soils, which are necessary for the biosphere evaluation in the long-term post-closure safety assessment.
6	ICRP International Symposium Satellite Event	Application of ICRP recommendations to the assessment of post-closure radiological safety in geological disposal	○Keisuke Ishida	The concept of the safety assessment framework (assessment period, scenario classification, etc.) in “The NUMO Pre-siting SDM-based Safety Case” , the implementation of ICRP recommendations for the safety assessment, and the results of the dose assessment were reported.
7	DECOVALEX2023 (Coupled Processes in Radioactive Waste Disposal Symposium)	Influence of re-saturation process considering differences in host rock of PEM for	○Shin Sato ¹ , Satoru Suzuki ² , Takahiro Goto ² , Motoki Moriwa ¹ (1.Obayashi corporation (JP) , 2 NUMO)	A thermal-hydrological-mechanical coupled analysis was conducted to investigate the influence of differences in host rock on re-saturation process of bentonite buffer in the case of PEM (Prefabricated EBS module) method

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		high level radioactive waste disposal THM analysis		applicated for the disposal of high-level radioactive waste.

List of abbreviations

Abbreviation	English
NUMO	Nuclear Waste Management Organization of Japan, Japan
QST	National Institutes for Quantum Science and Technology, Japan