

## Time Table (Program Summary)

### ■ On-site Registration Desk (20<sup>th</sup> Floor of Hotel Granvia Osaka)

Open between 16:00 to 20:00 on Sunday 26 November 2017

Open from 8:15 Monday 27 November 2017

### ■ Day 1: Monday 27 November 2017

Time			
08:15-09:00	<b>Registration (Local Space on the 20<sup>th</sup> floor)</b>		
	<b>Hall S (Houou)</b>		
09:00-09:10	<b>Opening Remarks</b> Mitsuo Takeuchi, Chair, The 6 <sup>th</sup> EAFORM Organizing Committee		
09:10-09:50	<b>Plenary Session 1</b> (1) Katsumoto Yoshimura, Director, Technology Office for RWM and Public Relations Office for RWM, METI, Japan (2) Yaohiro Inagaki, Prof. (Kyushu Univ.) and Director, Division of Nuclear Fuel Cycle and Environment, AESJ, Japan <i>2 speeches will be provided (20min. Each)</i>		
09:50-11:10	<b>Plenary Session 2</b> (1) Ching-Tsuen Huang, Prof. (National Tsing Hua Univ.) and Chairman, Academic Committee on Radwaste Management, CHNS, Taiwan (2) Joo-Wan Park, Vice President of Radioactive Waste Project Division, Korea Radioactive Waste Agency (Korad), Korea (3) Todd R. Zeitler, WIPP Performance Assessment Technical Team Lead, Sandia National Laboratories, USA (4) (TBD from China) <i>4 speeches will be provided (20min. Each)</i>		
11:10-11:30	<b>Coffee Break</b>		
11:30-12:50	<b>Special Session: Toward Revitalization of Fukushima</b> <i>4 speeches will be provided (20min. Each)</i>		
12:50-14:00	<b>Lunch (Hall A, Hall B, Hall C)</b>		
Time	Hall A (Naniwa-C)	Hall B (Kujaku)	Hall C (Kakuju)
14:00-16:05	<b>Technical Session 1A</b> Radioactive Wastes Treatment <i>Chair; Hitoshi Owada</i> <i>3 Papers</i> <i>25 min. each including QA for 5min.</i>	<b>Technical Session 1B</b> Decontamination & Decommissioning-1 <i>Chair; Shinichi Nakayama</i> <i>5 Papers</i> <i>25 min. each including QA for 5min.</i>	<b>Technical Session 1C</b> Radioactive Waste Management Policies, Regulations and Programs-1 <i>Chair; Motoi Kawanishi</i> <i>3 Papers</i> <i>25 min. each including QA for 5min.</i>
16:05-16:20	<b>Coffee Break</b>		
16:20-18:00	<b>Technical Session 2A</b> SNF/HLW Disposal-1 <i>Chair; Shinzo Ueta</i> <i>4 Papers</i> <i>25 min. each including QA for 5min.</i>	<b>Technical Session 2B</b> Decontamination & Decommissioning-2 <i>Chair; Satoshi Yanagihara</i> <i>3 Papers</i> <i>25 min. each including QA for 5min.</i>	<b>Technical Session 2C</b> Radioactive Waste Management Policies, Regulations and Programs-2 <i>Chair; Kenichi Kaku</i> <i>3 Papers</i> <i>25 min. each including QA for 5min.</i>
18:30-20:30	<b>Welcome Dinner (Hall Naniwa)</b>		

■ Day 2: Tuesday 28 November 2017

Time	Hall A (Naniwa-C)	Hall B (Kujaku)	Hall C (Kakuju)
08:30-10:10	<b>Technical Session 3A</b> SNF/HLW Disposal-2 <i>Chair; Morimasa Naito</i> 4 Papers 25 min. each including QA for 5min.	<b>Technical Session 3B</b> LLW/ILW Disposal-1 <i>Chair; Teruyuki Yamada</i> 4 Papers 25 min. each including QA for 5min.	<b>Technical Session 3C</b> SNF/HLW Disposal-3 <i>Chair; Yoichi Yamamoto</i> 4 Papers 25 min. each including QA for 5min.
10:10-10:30	<b>Coffee Break</b>		
10:30-11:45	<b>Technical Session 4A</b> SNF/HLW Disposal-4 <i>Chair; Morimasa Naito</i> 3 Papers 25 min. each including QA for 5min.	<b>Technical Session 4B</b> LLW/ILW Disposal-2 <i>Chair; Minoru Emori</i> 2 Papers 25 min. each including QA for 5min.	<b>Technical Session 4C</b> SNF/HLW Disposal -5 <i>Chair; Hiromitsu Saegusa</i> 2 Papers 25 min. each including QA for 5min.
11:45-13:00	<b>Lunch (Hall S)</b>		
Time	Hall A (Naniwa-C)	Hall B (Kujaku)	Hall C (Kakuju)
13:00-14:40	<b>Technical Session 5A</b> SNF/HLW Disposal-6 <i>Chair; Hiroyuki Tsuchi</i> 4 Papers 25 min. each including QA for 5min.	<b>Technical Session 5B</b> SNF/HLW Disposal-7 <i>Chair; Takamitsu Ishidera</i> 4 Papers 25 min. each including QA for 5min.	<b>Technical Session 5C</b> SNF/HLW Disposal-8 <i>Chair; Tetsuo Fujiyama</i> 3 Papers 25 min. each including QA for 5min.
14:40-14:55	<b>Coffee Break</b>		
14:55-16:35	<b>Technical Session 6A</b> Radioactive Waste Management Policies, Regulations and Programs-3 <i>Chair; Hiroyoshi Ueda</i> 4 Papers 25 min. each including QA for 5min.	<b>Technical Session 6B</b> SNF/HLW Disposal-9 <i>Chair; Masamichi Obata</i> 3 Papers 25 min. each including QA for 5min.	<b>Technical Session 6C</b> SNF/HLW Disposal-10 <i>Chair; Soshi Nishimoto</i> 3 Papers 25 min. each including QA for 5min.
16:35-16:45	<b>Short Break</b>		
16:45-17:00	<b>Closing Session</b> Closing Remarks		

## ■ Day 3: Wednesday 29 November 2017

One-day technical tour (optional)

◆08:40 Gathering & Departure from Hotel Granvia Osaka to;

- 1) HOKUDAN EARTHQUAKE MEMORIAL PARK ( <http://www.nojima-danso.co.jp/> )
- 2) The Great Hanshin-Awaji Earthquake memorial museum ( <http://www.dri.ne.jp/en> )
- 3) Short break at (stop by) KOBE KITANO IJINKAN-GAI ( <http://www.kobeijinkan.com/> )

◆17:45 Return back to Hotel Granvia Osaka (expected time)

1<sup>st</sup> Meeting place at 08:40 is “**Meeting place** (see following floor map)” on the Grand floor of Hotel Granvia Osaka

[Floor Map of the Grand Floor (1<sup>st</sup> floor) of Hotel Granvia Osaka]



# Program

## ■ Day 1: Monday 27 November 2017

### Plenary Session 1 9:10-9:50 [Hall S] Chair, Reiko Nunome (NUMO)

#### *Status of Radioactive Waste management in Japan*

Chair, Reiko Nunome (NUMO)

(1) **Nationwide Map of Scientific Features for Geological Disposal of High-Level Radioactive Waste in Japan**

Katsumoto Yoshimura (Director, Technology Office for RWM and Public Relations Office for RWM, Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry, Japan)

(2) **How to Integrate Various Research Fields for Reasonable and Reliable Radwaste Management**

Yaohiro Inagaki (Prof. (Kyushu Univ.) and Director, Division of Nuclear Fuel Cycle and Environment, AESJ, Japan)

### Plenary Session 2 9:50-11:10 [Hall A]

#### *Status of Radioactive Waste management in Taiwan, Korea, China and USA*

Chair, Reiko Nunome (NUMO)

(1) **Current Situation of Radioactive Wastes Management in Taiwan**

Ching-Tsuen Huang (Prof. (National Tsing Hua Univ.) and Chairman, Academic Committee on Radwaste Management, CHNS, Taiwan)

(2) **Status of High-level Radioactive Waste Management Program in Korea**

Joo-Wan Park, Vice President of Radioactive Waste Project Division, Korea Radioactive Waste Agency (Korad), Korea

(3) **Recertification of WIPP: From Submittal of the CRA-2014 to an EPA Recertification Decision**

Todd R. Zeitler ( WIPP Performance Assessment Technical Team Lead, Sandia National Laboratories, USA)

(4) (TBD from China)

### Special Session 11:30-12:50 [Hall A]

#### *Toward Revitalization of Fukushima*

Chair : Motoi Kawanishi (ASANO TAISEIKISO ENGINEERING Co.)

(1) **Technical Strategy for Decommissioning of the Fukushima Daiichi NPS**

Kazuyuki Kato (Managing Director, Technological Strategy Group, Nuclear Damage Compensation and Decommissioning Facilitation Corporation)

(2) **Study on Post-Accident Waste Management Scenarios for Fukushima Daiichi Nuclear Power Station**

Satoshi Yanagihara (Prof. (Univ. of Fukui) and Executive committee member, Review Committee on Decommissioning of the Fukushima Daiichi Nuclear Power Station, AESJ)

(3) **JAEA's R&D for Decommissioning of Fukushima Daiichi Nuclear Power Station**

Shinichi Nakayama (Director General, Fukushima Research Institute, JAEA)

(4) **Distribution of Radionuclides Nearby the Fukushima Daiichi Nuclear Power Station**

Terumi Dohi (Assistant Principal Engineer, Fukushima Environmental Safety Center, Fukushima Research Institute, JAEA)

**Technical Session 1A 14:00-16:05 [Hall A]**

***Radioactive Wastes Treatment: Source Term & Waste Treatment***

**Chair ; Hitoshi Owada (RWMC)**

**1A-1 High-frequency Melting Technology of Radioactive Metal Waste**

Nobutake Horiuchi, Takeshi Nishikawa, Naoto Sasaki and Hirokazu Tanaka

**1A-2 C-14 Release Behavior and Thermal Decomposition Characteristics of Crud Particles Collected from the Coolant Filter of Commercial PWR**

Shintaro Tsuji, Toshikazu Waki, Akira Sakashita and Kenichiro Kino

**1A-3 Evaluation of Carbon-14 Release from Irradiated Zircaloy Fuel Cladding through a Long-term Static Leaching Test**

Hiroyoshi Ueda, Tomofumi Sakuragi, Naoki Fujii and Hitoshi Owada

**Technical Session 1B 14:00-16:05 [Hall B]**

***Decontamination & Decommissioning: Decontamination-1: Decontamination***

**Chair ; Shinichi Nakayama (JAEA)**

**1B-1 The Assessments and Comparisons of RASCAL and EPZDose on Atmospheric Dispersion and Dose Consequences in Radioactive Material Release Accidents**

Shaohsuan Chen, Jongrong Wang, Chunkuan Shih, YuTing Ku, Yu Chiang, ShaoWen Chen and WenSheng Hsu

**1B-2 Confirmation of Appropriate Operation Condition with Blasting Device**

Yuuki Tshuhara, Hirotaka Izuka, Shinro Hirano, Yuji Matsunaga, Yasuhiro Sugahara and Yoji Kanamori

**1B-3 Development of In-situ Radioactivity Inspection System for Radioactive Waste and Decontamination System Using Microalgae**

Sujung Min, Dohyung Kim, Woyoung Kim, Sheunghyun Ha, San Chae, Jongman Lee and Unjang Lee

- 1B-4 Rapid Removal of Cesium-137 from Urban Area After the Fukushima Dai-ichi Nuclear Power Plant Accident**  
Kazuya Yoshimura
- 1B-5 A Study on the Performance of Flocculating Agent for Radioactively Contaminated Soil by Soil Washing Process**  
Jong Soon Song and Sun Il Kim

#### **Technical Session 1C 14:00-16:05 [Hall C]**

##### ***Radioactive Waste Policies, regulations and Programs-1***

**Chair : Motoi Kawanishi (ASANO TAISEIKISO ENGINEERING Co.)**

- 1C-1 Spent Nuclear Fuel Final Disposal Management in Taiwan**  
Allan Lee
- 1C-2 Scientific Basis for Nationwide Screening of Geological Disposal Sites in Japan**  
Takehiro Matsumoto, Hiromitsu Saegusa, Hideaki Hyodo, Akira Deguchi and Hiroyuki Umeki
- 1C-3 Sensitivity of WIPP Performance Assessment Results to Regulator-prescribed Changes**  
Todd R. Zeitler and Brad A. Day

#### **Technical Session 2A 16:20-18:00 [Hall A]**

##### ***SNF/HLW Disposal-1: Modelling (THMC, etc.)***

**Chair : Shinzo Ueta (MITSUBISHI MATERIALS Co.)**

- 2A-1 Geochemical Modeling of Water-rock Interactions in Granitic Rocks, Eastern Taiwan**  
Yu-Te Chang
- 2A-2 Centrifuge Model Test to Gain Reliability of the Future Prediction in Terms of Long Term THM Processes in Deep Geological Repository**  
Soshi Nishimoto
- 2A-3 Thermo-hydro-chemical Processes Influence on Buffer Material Degradation in High Level Radioactive Waste Disposal**  
Wen-Sheng Lin, Suu-Yan Liang and Chen-Wuing Liu
- 2A-4 Coupled THMC Processes in Radionuclide Waste Management**  
Gour-Tsyh (George) Yeh and Chia-Hsing (Peter) Tsai

#### **Technical Session 2B 16:20-18:00 [Hall B]**

##### ***Decontamination & Decommissioning: Decommissioning-2: Decommissioning***

**Chair : Satoshi Yanagihara (Univ. of Fukui)**

- 2B-1 Efforts toward Safe, Steady and Efficient Decommissioning**

Toyoaki Yamauchi, Satoshi Karigome and Hitoshi Ohata

**2B-2 Decommissioning Planning for Unit 1 and 2 at Mihama Nuclear Power Plant**

Shinya Kato, Koichi Kamahori, Hiromu Isaka and Shinro Hirano

**2B-3 Radiation Survey and Waste Inventory Estimation for Decommissioning of Taiwan NPP**

Chun-Cheng Lin, Wei-Sin Chen, Jyi-Lan Wu and Shu-Jun Chang

**Technical Session 2C 16:20-18:00 [Hall C]**

*Radioactive Waste Management Policies, Regulations and Programs-2:*

Chair : Kenichi Kaku (NUMO)

**2C-1 Status of Radioactive Waste and Spent Nuclear Fuel Management in Finland**

Jari Tuunanen

**2C-2 Communication Activities through Dialogue in Japanese Geological Disposal Project of High-level Radioactive Waste**

Ayako Araki, Saki Ikeda, Kumiko Ezaki and Kenichi Kaku

**2C-3 Efforts in the Field of Education for Japanese Geological Disposal of High-level Radioactive Waste**

Kumiko Ezaki, Kenichi Kaku and Shunsuke Suzuki

## ■ Day 2: Tuesday 28 November 2017

### **Technical Session 3A 08:30-10:10 [Hall A]**

#### ***SNF/HLW Disposal-2 : Safety Case Development-1***

Chair : Morimasa Naito (JAEA)

- 3A-1 Overview of the NUMO Safety Case at Pre-siting Stage**  
Tetsuo Fujiyama, Satoru Suzuki, Akira Deguchi and Hiroyuki Umeki
- 3A-2 Geosynthesis of a State-of-the-art Knowledge Base into SDMS in the NUMO Safety Case**  
Kunio Ota, Hiromitsu Saegusa, Takanori Kunimaru and Saori Yamada
- 3A-3 Layout Design of Underground Facilities Tailored to SDM in the NUMO Safety Case**  
Takahiro Goto, Yoichi Yamamoto, Satoru Suzuki and Shigeru Kubota
- 3A-4 Preliminary Study of Pre-closure Safety Assessment in the NUMO Safety Case**  
Kazuhisa Yamashina, Satoru Suzuki and Shigeru Kubota

### **Technical Session 3B 08:30-10:10 [Hall B]**

#### ***LLW/ILW Disposal-1***

Chair : Teruyuki Yamada (FEPC)

- 3B-1 Conceptual Study on Disposal Facility for Waste from Decommissioning of NPPs**  
Norie Kawahata, Ryoichi Hojo, Takayuki Hamanaka and Takashi Kozawa
- 3B-2 The Status of LILW Complex Disposal Facility Construction in Korea**  
Sangsoo Kim
- 3B-3 An Integrated Framework for Simulating Radionuclide Decay Transport of Low-level Radioactive Waste with Tunnel Disposal in Nearshore Environment**  
Chin-Chang Lu, Ming-Hsu Li and Yu-Ru Chen
- 3B-4 Sensitivity Analysis of Simulating Radionuclide Decay Transport of Low-level Radioactive Waste in Nearshore Environment**  
Yu-Ru Chen, Chin-Chang Lu and Ming-Hsu Li

### **Technical Session 3C 08:30-10:10 [Hall C]**

#### ***SNF/HLW Disposal -3 : Barrier Technology (Overpack etc. )***

Chair : Yoichi Yamamoto (NUMO)

- 3C-1 Seismic Response of Canister in Buffer Material Under Water Invasion Condition by Centrifuge Modeling**  
W.Y. Hung, J.J. Xu, Y.C. Wu and M.H. Hsieh



- 3C-2 Study on the Applicability of Cast Steel Overpack –Evaluation of Casting Defects and Corrosion Resistance Using Full-scale Prototype–**  
Yusuke Ogawa, Satoru Suzuki, Kazuhisa Yamashina and Shigeru Kubota
- 3C-3 Structural Integrity Assessment of Disposal Package for Radioactive Waste Failure Assessments for Overpack Using Finite Element Analysis**  
Masahiro Kawakubo and Masato Kobayashi
- 3C-4 Stress Analysis for the Canister Under Earthquake Induced Fracture Shear Displacement considering Long-term Creep Effect of Copper Shell**  
Yuan-Chieh Wu, Hsi-Ting Lo and Yi-Ren Wang

#### **Technical Session 4A 10:30-11:45 [Hall A]**

##### ***SNF/HLW Disposal -4 : Safety Case Development-2***

**Chair : Morimasa Naito (JAEA)**

- 4A-1 Preliminary Study of Post-closure Safety Assessment in the NUMO Safety Case**  
Keisuke Ishida, Takafumi Hamamoto, Sanae Shibutani, Kiyoshi Fujisaki and Motoyuki Yamada
- 4A-2 Assessment of Sorption and Diffusion in the Rock Matrix in the NUMO Safety Case**  
Takafumi Hamamoto, Sanae Shibutani, Keisuke Ishida, Kiyoshi Fujisaki, Motoyuki Yamada and Yukio Tachi
- 4A-3 How Will New Knowledge Be Reflected to the Management of Geological Disposal? - Influence of an FEP Not Considered So Far to Some Sub-scenarios -**  
Koichi Shin

#### **Technical Session 4B 10:30-11:45 [Hall B]**

##### ***LLW/ILW Disposal-2***

**Chair: Minoru Emori (RWMC)**

- 4B-1 Barrier of Near-surface LILW Disposal Facility in Korea: Hydraulic Model Development**  
Mi-Jin Kwon, Ki-Jung Kwon and Jin Beak Park
- 4B-2 Numerical Simulation of the Thermal Performance of a Dry Storage Cask for Spent Nuclear Fuel**  
Chi-Ming Lai, Ron-Horng Chen, Chu-Tsen Liao, Ting-Yi Wang and Heui-Yung Chang

#### **Technical Session 4C 10:30-11:45 [Hall C]**

##### ***SNF/HLW Disposal -5 : Site Investigation Technology-1***

**Chair : Hiromitsu Saegusa (NUMO)**

- 4C-1 Influence of inherent and Stress-induced Anisotropy of Hydraulic Conductivity on the Groundwater Flow Around a Rock Tunnel**  
Huang-Kuei Chu, Po-Sung Lai and Jia-Jyun Dong
- 4C-2 Data Qualification Methodology in the Literature Survey Stage**  
Saori Yamada, Takanori Kunimaru, Kunio Ota, Stratis Vomvoris and Niels Giroud

#### **Technical Session 5A 13:00-14:40 [Hall A]**

*SNF/HLW Disposal -6 : R&D by URL*

Chair : Hiroyuki Tsuchi (SHIMIZU Co.)

- 5A-1 Mizunami Underground Research Laboratory Project - Achievement During Phase I/II and Important Issues for Phase III -**  
Katsuhiko Hama
- 5A-2 Virtual Reality Geological Modeling for the Horonobe Underground Research Project**  
Takayuki Motoshima, Makito Nago and Yuji Ijiri
- 5A-3 Latest Rock Grouting Technologies Under Sea Water in Nordic Countries and Japan**  
Masakuni Tsuji, Mitsunobu Okihara, Hitoshi Nakashima, Toshinori Sato and Kazuhei Aoyagi
- 5A-4 Strategic and Technical Aspects in RD&D Program Development for HLW Disposal System in Korea**  
JeongHyouon Yoon, JeongHwan Lee and SeungHyun Kim

#### **Technical Session 5B 13:00-14:40 [Hall B]**

*SNF/HLW Disposal -7: Barrier Performance (Buffer-1)*

Chair : Takamitsu Ishidera (JAEA)

- 5B-1 Study on Gas Migration Behavior through Bentonite Buffer Material**  
Tomoyuki Shimura, Shinichi Takahashi, Masanobu Nishimura, Kazumasa Koga and Hitoshi Owada
- 5B-2 Migration Experiment of Void Air in Buffer Material During Seepage**  
Naohiko Takamoto, Ichizo Kobayashi, Masahiro Kawakubo, Masataka Imai and Tomoko Ishii
- 5B-3 Study on Piping and Erosion of Buffer Material During the Re-saturation Period**  
Takayuki Abe, Ichizo Kobayashi, Masahiro Kawakubo, Masataka Imai and Tomoko Ishii
- 5B-4 Numerical Analysis of Inflow Control for Quality Management of Buffer Material Using Discrete Fracture Network Model**  
Kazuhiko Masumoto, Makoto Nakajima, Hayato Nonaka, Tomoko Ishii, Mayumi Jo, Masataka Imai and Hiroyuki Atsumi

### **Technical Session 5C 13:00-14:40 [Hall C]**

#### ***SNF/HLW Disposal -8 : Nuclear & Disposal Related Technology***

**Chair : Tetsuo Fujiyama (NUMO)**

**5C-1 Development of Wireless Monitoring Systems for Geological Disposal**

Kazuhiro Tsubono, Masato Kobayashi, Hiromitsu Yamakawa and Akinori Hasui, Kazuhiko Masumoto, Tomoaki Matsushita, Norihisa Sugahara, Tatsuya Tanaka and Chiaki Nagai

**5C-2 Feasibility Study of Ventilation Design for Underground Facilities**

Naoki Katsumata, Ryoji Yahagi, Hiromi Kurosaki and Shigeru Kubota

**5C-3 Establishment and Application of Control Room Habitability Methodology for Maanshan Nuclear Power Plant**

Kai-Chun Yang, Jong-Rong Wang, Hsiung-Chih Chen, Shao-Wen Chen, Chunkuan Shih and Wen-Sheng Hsu

### **Technical Session 6A 14:55-16:35 [Hall A]**

#### ***Radioactive Waste Management Policies, Regulations and Programs-3: International Cooperation***

**Chair : Hiroyoshi Ueda (RWMC)**

**6A-1 International Cooperation Activities of KORAD Including Mid-term and Long-term Strategy of International Cooperation for Radioactive Waste Management**

Ou Jeong Yoo and Gyeong Hwan Park

**6A-2 Metadata in Geological Disposal of Radioactive Waste: The RepMet Libraries**

Russell C. Camphouse, Massimo Ciambrella and Kevin McMahon

**6A-3 Metadata in Geological Disposal of Radioactive Waste: The RepMet Initiative**

Massimo Ciambrella, Kevin McMahon and József I. Fekete

**6A-4 Spent Nuclear Fuel Final Disposal Knowhow, Methodology and Technology Transfer**

Magnus Holmqvist

### **Technical Session 6B 14:55-16:35 [Hall B]**

#### ***SNF/HLW Disposal -9 : Barrier Performance (Buffer-2)***

**Chair : Masamichi Obata (TOSHIBA Co.)**

**6B-1 Sulfide Corrosion by Sulphate-Reducing Bacteria in MX-80 Bentonites**

Szu-wei Lee and Ching-Tu Chang

**6B-2 Adsorption of Uranium(VI) on the MX-80 Bentonite**

Ying-Chieh Lin

**6B-3 Am(III)/Nd(III) Interactions with Borate: Experimental Investigations of**

**Nd(OH)<sub>3</sub>(micro cr) Solubility in NaCl Solutions in Equilibrium with BORAX**

Yongliang Xiong, Leslie Kirkes, Cassie Marrs and Jandi Knox

**Technical Session 6C 14:55-16:35 [Hall C]**

***SNF/HLW Disposal -10 : Site Investigation Technology-2***

**Chair : Soshi Nishimoto (CRIEPI)**

**6C-1 Microbial DNA; A Brand-new Tracer of Groundwater Flow**

Ayumi Sugiyama, Kenji Kato, Kazuyo Nagaosa, Tetsuo Ibara, Kazuyoshi Takenobu and Atsunao Marui

**6C-2 Seismic Analysis for the Deposition Tunnel in Fractured Rock by 3DEC**

Meng-Hsiu Hsieh and Yuan-Chieh Wu

**6C-3 Groundwater Flow Analysis for Evaluating Factors on Water Inflow to the Facility During the Operation Period**

Masataka Imai, Minoru Emori, Tomoko Ishii, Masahiro Kawakubo, Kazuhiro Tsubono, Masayoshi Yamaura, Tsuneyuki Maemura and Eiko Sugimoto