

FDR2019 Selected Paper

The FDR2019 organizing committee has decided to award the FDR2019 Selected Paper to the following 16 presentations.

Congratulations to the authors!

The committee strongly recommend these excellent studies to be submitted as full papers to the technical journals of JSME /AESJ, i.e. Mechanical Engineering Journal (MEJ) / Journal of Nuclear Science and Technology (JNST).

Note:

Information concerning submission to MEJ or JNST will be sent soon to the corresponding authors by e-mail.

Paper No.	Paper Title	Authors	Organization
1006	3D Reconstruction for Underwater Investigation at Fukushima Daiichi Nuclear Power Station Using Refractive Structure from Motion	Xiaorui Qiao Atsushi Yamashita Hajime Asama	The University of Tokyo
1018	Discussion of Containment Depressurization Scenario of Unit-2 during March 15th Morning	Kenichiro Nozaki Takeshi Honda Seiichi Dono Daisuke Yamauchi Masato Mizokami Shinya Mizokami	TEPCO SYSTEMS Corporation TEPCO Holdings, Inc.
1040	Development and validation of agglomeration model for CFD simulations of aerosol dispersion during Fukushima fuel debris retrieval	Thomas Gelain Emmanuel Porcheron Christophe Chagnot Damien Roulet	Institut de Radioprotection et de Surete Nucleaire CEA(French alternative energies and atomic energy commission) ONET
1049	About the use of geopolymer in long term radioactive waste management	David Lambertin Bastien Panel Vincent Cantarel Catherine Davy Christine Georges	CEA (French alternative energies and atomic energy commission) Japan Atomic Energy Agency Centrale Lille and UCCS
1054	Treatment feasibility demonstration of Fukushima Effluent Treatment Waste (FETW) by In-Can Melting vitrification technology	Isabelle Hugon Christophe Girold Jean-Francois Hollebecque Stephane Lemonnier Régis Didier-Laurent Thierry Prevost Laurent David Kohhei Shibata	CEA (French alternative energies and atomic energy commission) ORANO ANADEC
1058	The behaviour of materials in case of solidified absorber melt – oxidized BWR channel box interaction revealed after CLADS-MADE-01 test	Anton P. Pshenichnikov Masaki Kurata Yuji Nagae Saishun Yamazaki	Japan Atomic Energy Agency
1060	Improvement of Sr removal performance of Cs-Sr simultaneous adsorbent by controlling pH	Toshimasa Ohashi Tsuyoshi Ito Yuko Kani Takako Sumiya Yusuke Kitamoto Takashi Asano	Hitachi, Ltd. Hitachi-GE Nuclear Energy, Ltd.
1068	Experimental study on Cs chemisorption behaviour onto stainless steel at around 873 K	Eriko Suzuki Gaku Takase Kunihisa Nakajima Shunichiro Nishioka Naoyuki Hashimoto Shigehito Isobe Masahiko Osaka	Japan Atomic Energy Agency Hokkaido University
1069	A laboratory investigation of microbial degradation of simulant fuel debris by oxidizing microorganisms	Jiang Liu Yuma Dotsuta Toru Kitagaki Naofumi Kozai Keiko Yamaji Toshihiko Ohnuki	Japan Atomic Energy Agency University of Tsukuba Tokyo Institute of Technology
1070	Investigation of the spearing contamination on the operation floor of Unit 2 based on the radiochemical analysis data	Youko Takahatake Yoshikazu Koma	Japan Atomic Energy Agency
1071	Noteworthy possibility of strength recovery in concrete after the severe deterioration by the temperature elevation in the fuel meltdown	Kenichi Kurumada Takehiko Midorikawa	National Institute of Technology, Fukushima College
1072	Modelling of UO ₂ interaction with Zr at high temperature	Ayumi Itoh Yoshinao Kobayashi Takumi Sato Yuji Nagae Noriko Shirasu Masaki Kurata Akihiro Suzuki	Tokyo Institute of Technology Japan Atomic Energy Agency Japan Nuclear Fuel Development Co., Ltd.
1089	Improvement of Quantitative Detection Ability using Long and Short Double-Pulse LIBS	Yoshihiro Deguchi Zhenzhen Wang Minchao Cui	Tokushima University Xi'an Jiaotong University
1091	Potential for Remote Controllable Systematization of the Method of Testing Reinforced Concrete Using Guided-wave on Rebar	Akinori Furusawa Akihiko Nishimura Yusuke Takenaka Toshiharu Muramatsu	Japan Atomic Energy Agency
1095	A 2.45 GHz Microwave-enhanced Fiber-coupled Laser-induced Breakdown Spectroscopic System for Debris Detection and Radiation Measurement	Joseph Ampadu Ofosu Yuji Ikeda	Imagineering, Inc., Japan
1110	Development of thallium bromide gamma-ray spectrometers for Fukushima decommissioning	Mitsuhiro Nogami Keitaro Hitomi Tatsuo Torii Yuki Sato Yoshihiko Tanimura Kuniaki Kawabata Yoshihiro Furuta Hiroshi Usami Kenichi Watanabe Toshiyuki Onodera Norihisa Kimura Shin Kubo Seong-Yun Kim Tatsuya Ito Keizo Ishii Hiroyuki Takahashi	Tohoku University Japan Atomic Energy Agency Nagoya University Tohoku Institute of Technology The University of Tokyo