

# **15th International High-Level Radioactive Waste Management Conference 2015**

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# TABLE OF CONTENTS

**Monday, April 13, 2015, 2:00 p.m.**

## **Repository Licensing—I**

*Session Organizer: Michael John Apted (INTERA Inc.)*

*Chair: Jim Rubenstone (NRC)*

**(12227) Early Involvement of the Canadian Nuclear Regulator in an Initiative for a Deep Geological Repository for the Long-Term Management of Canada’s Used Nuclear Fuel** **1**

*J. L. Mecke (Canadian Nucl Safety Comm)*

**(12467) Regulatory Review and Assessment of SNF Encapsulation and Disposal Facility Construction License Application in Finland** **6**

*Kai Hämäläinen, Jussi Santeri Heinonen (STUK)*

**(12584) Regulatory Assessment of a Spent Fuel Repository at the Forsmark Site Sweden; Evolution of Groundwater Site Conditions** **10**

*Bo Strömberg, Georg A. Lindgren, Björn Dverstorp, Clara Anghel  
(Swedish Radiation Safety Authority)*

**(12585) A Structured Approach to Independent Modelling in Support of a Licensing Review** **18**

*Shulan Xu, Björn Dverstorp, Georg Lindgren, Maria Norden (Swedish Radiation Safety Authority), Klaus-Jürgen Röehlig (Clausthal Univ of Technology)*

## **Nuclear Fuel Cycle Optimization and Integration: Disposal of Dual Purpose Canister—I**

*Session Organizer and Chair: Matthew W. Kozak (INTERA, Inc.)*

### **(12266) A Case for Direct Disposal of SNF in Existing DPCs 27**

*Ernest Hardin, Elena Kalinina (SNL), Robert Clark (DOE), Robert Howard, Kaushik Banerjee, John Scaglione (ORNL), Joe Carter (SRNL)*

### **(12665) Revisiting Direct Disposal of Dual-Purpose Canister Systems 35**

*Matthew W. Kozak, Michael J. Apted (INTERA, Inc.), Andrew Sowder (EPRI)*

### **(12244) Evaluation of Filler Materials to Control Post-Closure Criticality of Dual Purpose Canisters 40**

*R. T. Jubin, K. Banerjee (ORNL), T. Severynse (SRNL)*

### **(12246) Criticality Analysis Process for Direct Disposal of Dual Purpose Canisters 48**

*John M. Scaglione (ORNL), Abdelhalim A. Alsaed (Enviro Nuclear Services), Robert L. Howard (ORNL), Ernest L. Hardin (SNL)*

## **Storage and Transportation: Transportation—I**

*Session Organizer: Ruth F. Weiner (Boston Government Services)*

*Chair: Sylvia Saltzstein (SNL)*

### **(12217) A Proposed Waste Acceptance Queue for Shutdown Nuclear Power Reactors 55**

*Steven P. Nesbit, Lara S. Nichols (Duke Energy Corp)*

### **(12660) Transportation of Spent Nuclear Fuel from the Reactor Sites in U.S.—What Will It Take 62**

*Elena A. Kalinina (SNL), Ingrid K. Busch (ORNL)*

**(12595) Constraint-Based Routing Models for the Transport of Radioactive Materials** **71**

*Steven Peterson, Cheng Liu (ORNL)*

**(12596) Systems for the Intermodal Routing of Spent Nuclear Fuel** **79**

*Steven Peterson, Cheng Liu (ORNL)*

**Nuclear Fuel Cycle Optimization and Integration—Special Session: Progress in HLW Management at the U.S. DOE Savannah River Site**

*Session Organizer: Andrew G. Sowder (EPRI)*

*Chair: Lawrence Ling (Savannah River Remediation)*

**(12699) Integrated High Level Waste System Planning—Utilizing an Integrated Systems Planning Approach to Ensure End-State Definitions are Met and Executed** **86**

*Lawrence T. Ling (Savannah River Remediation), Sonitza M. Blanco (DOE), invited*

**(12700) High-Level Waste Management at the Department of Energy Savannah River Site** **92**

*Lawrence T. Ling, Stuart MacVean (Savannah River Remediation), James Folk (DOE), invited*

**(12760) Completion of Operational Closure of Tank 5F and Tank 6F by Grouting Including the First Time Grouting of Cooling Coils Associated Annulus** **100**

*James Rush, Gregory Arthur (Savannah River Remediation, LLC), Jolene Seitz (DOE)*

**Borehole Disposal: General**

*Session Organizer and Chair: Patrick Brady (SNL)*

**(127655) Why Demonstration of a Deep Borehole Disposal  
Concept Matters to the Nuclear Industry 107**

*Andrew Sowder (EPRI), Rod McCullum (NEI), Vincent Kindfuller (MIT)*

**(12515) Deep Geological Boreholes: A Suitable Disposal Route  
for Hanford Cs/Sr Capsules 115**

*Karl P. Travis, Fergus G. F. Gibb (Univ of Sheffield)*

**(12390) Research Needs for Deep Boreholes 122**

*Patrick V. Brady, Bill W. Arnold, Robert J. MacKinnon, Ernest L. Hardin,  
David C. Sassani, Kristopher L. Kuhlman, Geoff A. Freeze (SNL)*

**Monday, April 13, 2015, 3:55 p.m.**

**Repository Licensing—II**

*Session Organizer: Michael John Apted (INTERA Inc.)*

*Chair: Jim Rubenstone (NRC)*

**(12385) The Role of Key Consultants in the Finnish Radiation  
and Nuclear Safety Authority's 'Construction License Application' Review  
and Assessment 125**

*Michael Apted (INTERA Inc.), Neil Chapman (MCM International),  
Budhi Sagar (Southwest Research Inst)*

**(12642) Maintaining a Safety Case for Licensing—A Swedish  
Case Study 131**

*Kristina Gillin (Candesco), Martina Sturek (SKB)*

**Nuclear Fuel Cycle Optimization and Integration—Disposal of Dual Purpose  
Canisters— II**

*Session Organizer and Chair: Matthew W. Kozak (INTERA, Inc.)*

**(12314) Disposability of the Loaded U.S. Dual-Purpose Canisters from a Criticality Standpoint** **135**

*Kaushik Banerjee, John M. Scaglione, Justin B. Clarity (ORNL)*

**(12211) Initial Evaluation of Standardized Canisters in the Waste Management System** **143**

*Joshua J. Jarrell, Robert A. Joseph III (ORNL), Jeffrey A. Fortner (ANL), Richard E. Hale, Robert L. Howard (ORNL), Elena A. Kalinina (SNL), Gordon M. Petersen, Robert B. Wilkerson (Univ of Tennessee)*

**Storage and Transportation: Transportation— II**

*Session Organizer: Ruth F. Weiner (Boston Government Services)*

*Chair: Sylvia Saltzstein (SNL)*

**(12426) Stakeholder Tool for Assessing Radioactive Transportation (START)** **150**

*Mark Abkowitz (Vanderbilt Univ), Erica Bickford (DOE), invited*

**(12592) Laying the Groundwork for a Large-Scale Used Fuel Transportation System** **155**

*Matthew Feldman, John Wagner, Kevin Connolly (ORNL), Steven Maheras (PNNL), Erica Bickford, Jay Jones, Patrick Schwab (DOE)*

**Nuclear Fuel Cycle Optimization and Integration—Management of Wastes from Reprocessing**

*Session Organizer: Andrew G. Sowder (EPRI)*

*Chair: Sven Bader (AREVA)*

**(12602) Contamination of Zirconium Metal by Cadmium Dissolved in Molten LiCl-KCl Salt** **160**

*N. A. Earle, S. E. Skutnik (Univ of Tennessee)*

**(12694) Chlorination Process Development for Zirconium Recovery from Used Fuel Cladding** **165b**

*Emory D. Collins, G. D. Del Cul, B. B. Spencer, R. D. Hunt, R. R. Brunson, C. Ausmus (ORNL)*

**Regulatory and Institutional Topics—Managing Unique Inventories of Used Fuel and HLW**

*Session Organizer and Chair: Graham Smith (GMS Abingdon Ltd.)*

**(12672) Regulatory Supervision of Management of Submarine and Icebreaker Spent Fuel in Russian Federation** **169**

*Malgorzata Karpow Sneve (Norwegian Radiation Protection Authority)*

**(14227) Issues in Research Reactor Spent Fuel Management** **176**

*Graham Smith (GMS Abingdon Ltd.)*

**Tuesday, April 14, 2015, 10:25 a.m.**

**Repository Safety Assessment I**

*Session Organizer: Sitakanta Mohanty (Southwest Research Inst)*

*Cochairs: Alan Hedin (SKB), Delphine Pellegrini (IRSN)*

**(12249) SKB's Updates of the Forsmark SNF Repository License Application—Long-Term Safety** **182**

*Allan Hedin, Johan Andersson, Christina Lilja, Patrik Sellin (SKB)*

**(12590) Overview of a Postclosure Safety Assessment of a Canadian Used Fuel Repository in Sedimentary Rock** **190**

*M. Gobien, F. Garisto, N. Hunt, E. P. Kremer, C. Medri (NWMO)*

**(12713) Development of the NUMO Safety Case—Safety** **198**



## **Assessment**

*Manabu Inagaki, Susumu Kurosawa, Sanae Shibutani, Keisuke Ishida, Katsuhiko Ishiguro (NUMO)*

### **(12069) A Simple Improved Measure of Risk from a Geologic Repository** **207**

*Allen G. Croff, Steven L. Krahn (Vanderbilt Univ)*

### **(12692) A Methodology for Representing the Geosphere-Biosphere Interface in Assessment Models** **218**

*M. C. Thorne (Mike Thorne and Associates Ltd), G. M. Smith (GMS Abingdon Ltd)*

## **Regulatory and Institutional Topics—The U.S. Geologic Repository Program**

*Session Organizer and Chair: Steven P. Nesbit (Duke Energy)*

### **(12693) Partisanship, Information, and Public Opinion about Yucca Mountain** **226**

*Matthew C. Nowlin (College of Charleston)*

### **(12247) Redirecting the U.S. Nuclear Waste Program** **232**

*Robert J. Halstead (State of Nevada), Alvin Mushkatel, Kathy Thomas (Arizona State Univ Polytechnic)*

## **Storage and Transportation—Multipurpose System Designs**

*Session Organizer and Chair: Brady D. Hanson (PNNL)*

### **(12649) AREVA TN Universal Centralized Storage System** **240**

*Zhaojuan (Jane) He, William Bracey (AREVA)*

### **(12654) MP197HB: First Licensed Transportation Package with Canistered High Burnup Fuel After Dry Storage** **245**

*Jayant Bondre (AREVA TN)*

**(12663) Recent Issues Found in a Dual Purpose Cask Design 249**

*David Garrido (ENSA)*

**(12701) COBRA-SFS Dry-Cask Modeling Sensitivities in High-Capacity Canisters 255**

*Remy Devoe, Kevin R. Robb (ORNL)*

**(12529) Behaviour of Spent Fuel During Storage 263**

*Paul Nicholas Standring (IAEA)*

**Repository Site Selection**

*Session Organizer: Peter N. Swift (SNL)*

*Chair: Kevin McMahon (SNL)*

**(12717) Implementing Geological Disposal in the UK 268**

*Ann McCall, Andrew Craze (Radioactive Waste Management), invited*

**(12714) Development of the NUMO Safety Case—Geological Characterisation and Synthesis 276**

*Kunio Ota, Junichi Goto, Takanori Kunimaru, Toshifumi Moriya, Kimitaka Yoshimura, Seietsu Takeda (NUMO)*

**(12716) Canada's Deep Geological Repository for Used Nuclear Fuel—Update on the Site Evaluation Process and Interweaving of Aboriginal Traditional Knowledge 284**

*Mahrez Ben Belfadhel, Jo-Ann Facella, Bob Watts (NWMO)*

**Nuclear Fuel Cycle Optimization and Integration: Integrating Interim Storage and Disposal— I**

*Session Organizer: Charles W. Forsberg (MIT)*

*Chair: Sven Bader (AREVA)*

**(13146) Overview of the DOE Nuclear Fuel Storage and Transportation Planning Project** **289**

*John Wagner (ORNL), Joe Carter (SRNL), Matt Feldman, Rob Howard (ORNL), William Nutt (ANL), Jeff Williams (DOE)*

**(12605) Update on the United States Department of Energy's Used Fuel Disposition R&D Campaign** **296**

*Peter N. Swift (SNL), Jens T. Birkholzer (LBNL), Shannon Bragg-Sitton (INL), Robert J. MacKinnon, Kevin A. McMahon, Sylvia J. Saltzstein, Ken B. Sorenson (SNL)*

**(12524) Coming to an Ocean Far From You—Sub-Seabed Repositories** **304**

*Craig L. Porter (Jetseal Engineering and Technical Services, LLC)*

**Security, Safeguards and Nonproliferation**

*Session Organizer: Andrew G. Sowder (EPRI)*

*Chair: Sven Bader (AREVA)*

**(12232) Uncertainty of the Pu to <sup>244</sup>Cm Ratio in Spent Fuel** **313**

*Seung Min Woo, Joonhong Ahn (Univ of California, Berkeley)*

**(12674) Numerical Estimation of the Spent Fuel Ratio** **320**

*Samuel G. Durbin, Eric R. Lindgren, Jason Wilke (SNL)*

**Tuesday, April 14, 2015, 2:00 p.m.**

**Repository Design: Engineered Barrier Systems—I**

*Session Organizer: Andrew Sowder (EPRI)*

*Chair: Daniel Bullen (DNFSB)*

**(12416) Modeling Thermohydrological-Mechanical Behavior of** **325**

## **Granular Bentonite**

*Chandrika Manepally, Stuart Stothoff, Goodluck Ofoegbu, Biswajit Dasgupta (CNWRA-Southwest Research Inst), Randall Fedors (NRC)*

### **(12709) Monitoring of the Shaft Seal at Canada's Underground Research Laboratory** **333**

*D. Priyanto Putro, P. Thompson, S. Stroes-Gascoyne (CNL), D. Dixon (Golder Assoc Limited), P. Korkeakoski (Posiva Oy), R. Farhoud (ANDRA)*

### **(12645) Development of the Canadian Used Fuel Repository Engineered Barrier System** **340**

*Chris Hatton (NWMO)*

## **Storage and Transportation: Extended Storage—I**

*Session Organizer: Andrew Sowder (EPRI)*

*Chair: Vincenzo Rondinella (EC-JRC-ITU)*

### **(12624) ISI of Dry Storage Casks for Spent Nuclear Fuel: Leveraging Knowledge from Reactors** **346**

*Ryan M. Meyer, Michael T. Anderson, John P. Lareau (PNNL)*

### **(12606) Probabilistic Performance Assessment: SCC of SNF Interim Storage Canisters** **354**

*C. Bryan, C. Sallaberry, R. Dingreville, C. Stockman (SNL), H. Adkins (PNNL), M. Sutton (LLNL)*

### **(12617) Characterization and Effects of Hydrides in High-Burnup PWR Cladding Alloys** **362**

*M. C. Billone, T. A. Burtseva, Y. Y. Liu (ANL)*

## **Repository Site Selection—Underground Research Laboratories**

*Session Organizer: Charles McCombie (MCM Consulting)*

*Chair: Efstratios (Stratis) Vomvoris (NAGRA)*

**(12650) Current Status of R&D Activities and Future Plan of Mizunami Underground Research Laboratory 371**

*H. Osawa, K. Koide, E. Sasao, T. Iwatsuki, H. Saegusa, K. Hama, T. Sato (JAEA)*

**(12378) Nagra's Activities at the Grimsel Test Site and Mont Terri Project: Update and Outlook 379**

*S. Vomvoris, I. Blechschmidt, T. Vietor, H. Mueller (Nagra)*

**(12691) Underground Research Facility in Highly Anisotropic Rocks, Bukov URF, Czech Republic 390**

*L. Vondrovic, M. Vencl, M. Dvořaková, , J. Slovák, I. Pospíšková (Radioactive Waste Repository Authority)*

**Borehole Disposal—Sealing and Thermal Modeling**

*Session Organizer and Chair: Patrick Brady (SNL)*

**(12406) Cementitious Grouts for Disposal of Nuclear Wasteforms in Deep Boreholes 394**

*Nick C. Collier, Karl P. Travis, Fergus G F. Gibb (The Univ of Sheffield), Neil B. Milestone (Callaghan Innovation)*

**(12503) Sealing Deep Borehole Disposals of Radioactive Waste by "Rock Welding" 401**

*Fergus G. F. Gibb, Karl P. Travis (Univ of Sheffield), invited*

**(12594) High Performance Ceramic Plugs for Borehole Sealing 407**

*William Lowry, Sandra Dunn, Ken Coates (Olympic Research, Inc.), Andrew Duguid (Schlumberger Carbon Services), Ken Wohletz (LANL)*

## **Nuclear Fuel Cycle Optimization and Integration—Modeling and Simulation**

*Session Organizer: Vincenzo V. Rondinella (EC-JRC-ITU)*

*Chair: Joonhong Ahn (Univ of California, Berkeley)*

### **(12411) Validation of Electrolyte Solution Densities Important to Processing Hanford Nuclear Waste: Tri-Sodium Citrate** **414**

*Jacob G. Reynolds (Washington River Protection Solutions, LLC)*

### **(12539) ORIGAMI: A New Interface for Fuel Assembly Characterization with ORIGEN** **418**

*Steve E. Skutnik (Univ of Tennessee), Mark L. Williams, Robert A. LeFebvre (ORNL)*

### **(12597) Fuel Cycle Applications with the Data Stored Within the Unified Database** **426**

*Joshua Peterson, John Scaglione (ORNL)*

**Tuesday, April 14, 2015, 3:30 a.m.**

## **Repository Safety Assessment—II**

*Session Organizer: Matthew W. Kozak (INTERA, Inc.)*

*Chair: Ray Clark (EPA)*

### **(12589) Assessment of the Chemical Hazard of a Canadian Used Fuel Repository with Copper Containers** **431**

*M. Gobien, F. Garisto, N. Hunt, E. P. Kremer (NWMO)*

### **(12728) Investigating the Implications of Managing Depleted Natural and Low Enriched Uranium Through Geological Disposal** **439**

*Daniel Galson (Galson Sciences Limited), Matthew Wallstead (Radioactive Waste Management Ltd.), Liz Harvey (Galson Sciences Ltd.)*

**(12321) Site Specificity in Advanced Dose Assessment Modeling** **447**

*R. A. Klos (Aleksandria Sciences Ltd.), Anders Wörman (KTH)*

**Repository Design: Engineered Barrier Systems—II**

*Session Organizer: Andrew Sowder (EPRI)*

*Chair: Daniel Bullen (DNFSB)*

**(12474) Constitutive Model Development for Bentonite Buffer Behavior** **455**

*S. Stothoff, C. Manepally (CNWRA-Southwest Research Inst), R. Fedors (NRC)*

**(12600) A Consequence Model for Bentonite Buffer Defects in Fractured Rock** **463**

*Stuart Stothoff (CNWRA)*

**(12498) Modeling THMC Changes in EBS Bentonite at High Temperature** **471**

*Liange Zheng, Jonny Rutqvist, Jens T. Birkholzer (LBNL)*

**Storage and Transportation: Extended Storage—II**

*Session Organizer and Chair: Vincenzo V. Rondinella (EC-JRC-ITU)*

**(12715) Spent Nuclear Fuel Characterization in View of Long-Term Storage** **479**

*V. V. Rondinella, T. Wiss, D. Papaioannou, R. Nasyrow, F. Cappia, S. Van Winckel, D. Serrano-Purroy, D. Wegen, (EC-JRC-ITU)*

**(12720) Radiolysis Model Analysis for a Used Fuel Storage Canister** **486**

*Richard S. Wittman, Brady D. Hanson (PNNL)*

**(12591) Phenomena Affecting Used Nuclear Fuel Cladding Temperatures during Vacuum Drying Operations** **501**

*M. Hadj-Nacer, T. Manzo (Univ of Nevada, Reno), M. Ho, I. Graur, (Univ of Aix-Marseille), M. Greiner (Univ of Nevada, Reno)*

**Storage and Transportation: Transportation Analysis and Testing—I**

*Session Organizer and Chair: Ruth F. Weiner (Boston Government Services)*

**(12679) Rail Shock and Vibration Pre-Test Modeling of a Used Nuclear Fuel Assembly** **509**

*Steven B. Ross, Nicholas A. Klymyshyn, Philip J. Jensen, Ralph E. Best, Steven J. Maheras (PNNL), Paul E. McConnell (SNL), John Orchard (DOE)*

**(12256) Lessons Learned from CIRFT Testing on SNF Vibration Integrity Study** **515**

*J.-An Wang, H. Wang, H. Jiang, B. Bevard, R. Howard, J. Scaglione (ORNL)*

**(12251) Special Fleet Maintenance Functions, Requirements, and Facility Concepts for AAR-2043 Railcars** **523**

*R. Howard, P. Singley, M. Feldman, D. Giuliano, B. Bevard (ORNL), J. Carter (SRNL)*

**Wednesday, April 15, 2015, 10:25 a.m.**

**Regulatory and Institutional Topics: Challenges and Successes**

*Session Organizer and Chair: Rob P. Rechard (SNL)*

**(12711) Development of the NUMO Safety Case—Overview** **526**

*Hiroshi Fujihara, Akira Deguchi, Hiroyoshi Ueda, Tetsuo Fujiyama, Hiroyuki Umeki (NWMO)*



**(12712) Development of the NUMO Safety Case—Repository Design and Engineering** **534**

*Shigeru Kubota, Kiyoshi Fujisaki, Satoru Suzuki, Akira Deguchi, Hiroyuki Umeki (NWMO)*

**(12695) The Review of the Swedish Spent Fuel Repository License Application** **541**

*Johan Swahn (Swedish NGO Office for Nuclear Waste Review)*

**(12037) Knowledge Preservation for Repository Systems** **546**

*Kevin A. McMahon, Gordon J. Appel (SNL), Abraham Van Luik (DOE), John B. Whitley (SNL)*

**(12384) Changes in Dose Performance Measures as Modeling Progressed for the Previously Proposed U.S. Repository in Volcanic Tuff** **555**

*Rob P. Rechard (SNL)*

**Regulatory and Institutional Topics—Special Session on the Waste Isolation Pilot Plant**

*Session Organizer: Abraham E. Van Luik (DOE, Carlsbad Field Office)*

*Cochairs: Dana Bryson (DOE-Carlsbad Field Office). Derek Wilson (NWMO)*

**(12391) Waste Isolation Pilot Plant Recovery: A Status Report** **563**

*Dana Bryson, José Franco (DOE)*

**(12488) Independent Monitoring of the Waste Isolation Pilot Plant** **569**

*P. Thakur, S. Ballard, R. Hardy (Carlsbad Environmental Monitoring & Research Center)*

**Nuclear Fuel Cycle Optimization and Integration—Alternative Fuel Cycles and Reactor Technologies**

*Session Organizer and Chair: Joonhong Ahn (Univ of California, Berkeley)*

**(12205) Development and Testing of a Decision Framework and a Decision Tool for Determining Fuel Cycle Preferences** **570**

*Andrea R. Gardiner, Steven L. Krahn, Timothy M. Ault, Allen G. Croff, Bethany L. Burkhardt, James H. Clarke, Lyndsey M. Fyffe (Vanderbilt Univ), Albert J. Machiels, Andrew G. Sowder (EPRI)*

**(12228) Qualitative and Quantitative Metrics for Evaluating the Nuclear Fuel Cycle** **583**

*John M. Swanson, Ishoc Salaam, Sama Bilbao y León (Virginia Commonwealth Univ)*

**(12603) Comparison of Radioactive Waste Volumes from Single Used Nuclear Fuel Recycling and the Once-Through Nuclear Fuel Cycle** **591**

*Bethany L. Burkhardt, Steven Krahn, Allen Croff, Kevin Brown, James H. Clarke (Vanderbilt Univ), Albert Machiels, Andrew Sowder (EPRI)*

**(12412) Hedging Against Uncertainty in the Nuclear Fuel Cycle** **602**

*Urairisa Phathanapirom, Erich Schneider (Univ of Texas, Austin)*

**(12671) Feasibility of Molten Salt Fast Reactor for Emerging National Tasks** **608**

*Yasuo Hirose, Koshi Mitachi (Retired), Yoichiro Shimazu (Univ of Fukui)*

**Borehole Disposal—Siting**

*Session Organizer and Chair: Patrick Brady (SNL)*

**(12453) Siting Guidelines for a Deep Borehole Disposal Facility** **618**

*Geoff A. Freeze, Bill W. Arnold, Patrick V. Brady, David C. Sassani,*

*Kristopher L. Kuhlman (SNL)*

**(12370) Site Characterization for a Deep Borehole Field Test 624**

*Kristopher L. Kuhlman, Bill W. Arnold, Patrick V. Brady, David C. Sassani, Geoff A. Freeze, Ernest L. Hardin (SNL)*

**(12608) A GIS Database to Support Siting of a Deep Borehole Field Test 632**

*Frank V. Perry (LANL), Bill W. Arnold (SNL), Richard E. Kelley (LANL)*

**(12684) An Analysis on the Borehole Spacing of Deep Borehole Disposal of HLW 638**

*Jongyoul Lee, Geonyoung Kim, Daeseok Bae, Heuijoo Choi, Kyeongsoo Kim (KAERI)*

**(12607) Modeling Transient Thermal Conditions for Nuclear Waste in Deep Boreholes 642**

*Robert J. Geringer, Clifford Singer (Univ of Illinois)*

**Wednesday, April 15, 2015, 2:00 p.m.**

**Repository Performance Assessment: Radionuclide Release and Transport—  
I**

*Session Organizer: Andrew Sowder (EPRI)*

*Chair: David Pickett (Southwest Research Inst)*

**(12646) FIRST-Nuclides: Results on Radionuclide Release from Used Fuel 646**

*Bernhard Kienzler (KIT), Karel Lemmens (SCK.CEN)*

**(12454) Sensitivity Studies With a Probabilistic Radionuclide Transport Model for Geological Disposal in Meuse/Haute-Marne, France 653**

*Richard Codell (Consultant), Sitakanta Mohanty, Stuart Stothoff*

*(Southwest Research Inst), Gregory Mathieu, Marc Bourgeois, Delphine Pellegrini (IRSN)*

**(12442) Effects of Dissolved Hydrogen on Dissolution Rates of SIMFUEL in High-Level Waste Repositories With Reducing Conditions 660**

*Pavan K. Shukla (Southwest Research Inst), Tae Ahn (NRC)*

**(11964) Estimating Gas-Borne Dose Consequences from a Used Fuel Repository in Sedimentary Rock 671**

*E. P. Kremer (NWMO), J. D. Avis, N. Calder (Geofirma Eng Limited), N.G. Hunt (NWMO)*

**Repository Design: Natural Barrier Systems**

*Session Organizer: Efstratios (Stratis) Vomvoris (NAGRA)*

*Cochairs: Jin-Ping (Jack) Gwo (NRC), Stuart Stothoff (Southwest Research Inst)*

**(12652) THMC Behaviour of Clay-Based Barriers under High Temperature—From Laboratory to URL Scale 678**

*S. Vomvoris (Nagra), J. Birkholzer, Liange Zheng (LBNL), I. Gaus, I. Blechschmidt (Nagra)*

**(12719) Understanding Thermal Constraints for High-Heat-Generating Wastes in the UK 688**

*Ann McCall, Martin Cairns (Radioactive Waste Management Limited), invited*

**(12588) Modeling the Coupled Hydrogeochemical and Mechanical Behavior of a Single Artificial Fracture in Novaculite Rock 694**

*J. Gwo, T. Cao, R. Fedors, and J. Rubenstone*

**(12690) Numerical Characterization of the Excavation Damaged Zone in the HG-A Experiment 702**

*Robert Walsh, Othman Nasir, Helen Leung, John Avis*

## **Storage and Transportation—Inspection and Aging Management of Dry Storage Systems—I**

*Session Organizer:* John H. Kessler (EPRI)

*Chair:* Shannon Chu (EPRI)

### **(12841) Aging Management for High Burnup Used Fuel in Dry Storage—A Holistic Approach 710**

*Rod McCullum (NEI), Tom Brookmire (Dominion Energy), Pam Cowan (Exelon Generation), Kris Cummings (NEI), John Kessler (EPRI), Steve Nesbit (Duke Energy), Terry Pickens (Xcel Energy)*

### **(12664) Gap Analysis to Support Modeling the Long-Term Degradation of Used Nuclear Fuel Canisters 717**

*P. J. Jensen, D. J. Sunderland, S. B. Ross, R. O. Montgomery, B. D. Hanson, R. Devanathan (PNNL)*

### **(12653) Aging Management Program for Stainless Steel Dry Storage System Canisters 720**

*Darrell S. Dunn, Bruce Lin (NRC), Ryan M. Meyer, Michael T. Anderson (PNNL)*

### **(12394) EPRI's CISCC R&D Roadmap and Development of CISCC Aging Management Guidelines 728**

*Shannon Marie Chu (EPRI)*

## **Nuclear Fuel Cycle Optimization and Integration—Integrating Interim Storage and Disposal—II**

*Session Organizer and Chair:* Rob P. Rechard (SNL)

### **(12238) Process Flow Diagrams and Node Descriptions for the SNF WMS 735**

*R. A Joseph III, R. E. Hale, G. M. Petersen, R. L. Howard, (ORNL), M. Nutt (ANL)*

**(12277) Waste Management System Architecture Evaluations 742**

*W. Mark Nutt, Casey Trail (ANL), Thomas Cotton (Complex Systems LLC), Robert Howard, Bret van den Akker (ORNL)*

**(12413) Integrating Management of Spent Nuclear Fuel in the United States by Consolidated Storage 749**

*Rob P. Rechard, Laura L. Price, Elena A. Kalinina, Evaristo J. Bonano (SNL), Hank C. Jenkins-Smith (Univ of Oklahoma)*

**(12455) Qualitative Evaluation of Options for Disposal of SNF and HLW 757**

*Laura Price, David Sassani, Peter Swift, Evaristo Bonano (SNL)*

**Biosphere—I**

*Session Organizer: Karen Smith (RadEcol Consulting Ltd.)*

*Chair: Graham Smith (GMS Abington Ltd.)*

**(12734) International Cooperation and Biosphere Assessment: BIOPROTA 765**

*K. Smith (RadEcol Consulting Ltd.), G. Smith (GMS Abingdon Ltd.), D. Pérez-Sanchez (CIEMAT)*

**(12739) Biosphere Assessment for Safety Case of Final Disposal of Spent Nuclear Fuel 769**

*Lauri Parviainen, Kirsi Riekkö (Posiva Oy)*

**(12685) International Developments in Addressing Environmental Change in Post Closure Safety Assessments 776**

*Tobias Lindborg (Swedish Nuclear Fuel and Waste Management Co/Swedish Univ of Agricultural Science), Mike Thorne (Mike Thorne)*

*and Assoc Ltd.)*

**(12736) Results from Post-Closure Dose Assessment Models with “Alternative” Levels of Detail** **784**

*Ryk A. Klos (Aleksandria Sciences), Danyl Pérez-Sánchez (CIEMAT), Shulan Xu, Maria Nordén (SSM)*

**Wednesday, April 15, 2015, 3:55 p.m.**

**Repository Performance Assessment: Radionuclide Release and Transport—II**

*Session Organizer: Andrew Sowder (EPRI)*

*Chair: David Pickett (Southwest Research Inst)*

**(12402) Relevance of Radionuclide Transport Assisted by Colloids in a KBS-3 Repository** **792**

*Osvaldo Pensado (Southwest Research Inst)*

**Repository Design: Engineered Barrier Systems—III**

*Session Organizer: David A. Pickett (Southwest Research Inst)*

*Chair: Michael Apted (INTERA Inc.)*

**(12212) Alternative Method for the Production of Copper Barriers** **799**

*T. Hernandez-Selva (BEP Surface Technologies Ltd/Univ of Manchester), D. L. Engleberg, F. Scenini (Univ of Manchester), D. Fox, A. McClusky (BEP Surface Technologies Ltd)*

**(12419) Copper Corrosion in Simulated Anoxic Granitic Underwater** **806b**

*Xihua He (Southwest Research Inst), Tae Ahn (NRC), Jude McMurry (Retired)*

## **Storage and Transportation: Inspection and Aging Management of Dry Storage Systems— II**

*Session Organizer:* John H. Kessler (EPRI)

*Chair:* Rod McCullum (NEI)

### **(12536) Collaboration on Aging Management for Extended Storage of Used Fuel 814**

*Holger Voelzke (BAM Federal Inst for Materials Research and Testing),*

*Yung Liu (ANL)*

### **(12599) Dry Storage Canister Inspections to Inform Aging Management Efforts 818**

*Keith Waldrop (EPRI)*

### **(12651) Inspection and Monitoring of Dry Canister Storage Systems 824**

*Jeremy B. Renshaw, Shannon Chu, John H. Kessler, Keith Waldrop (EPRI)*

## **Biosphere— II**

*Session Organizer:* Karen Smith (RadEcol Consulting Ltd)

*Chair:* Graham Smith (GMS Abingdon Ltd.)

### **(12395) Estimation of Dilution, Capture, and Dose for IAEA Reference Biospheres 835**

*Paul E. Mariner, W. Payton Gardner (SNL)*

### **(12686) Determination of Concentration Ratios of Stable Sr and Cs for Fish, and Analysis of Factors Influencing Their Range of Variation 842**

*Lena Konovalenko, Clare Bradshaw (Stockholm Univ), Ulrik Kautsky (SKB)*



**(12722) Review of Current Methods in Internal Dosimetry of Non-Human Biota** **848**

*N. E. Martinez (Clemson Univ)*

**Thursday, April 16, 2015, 8:00 a.m.**

**Repository Performance Assessment—Disruptive Scenarios**

*Session Organizer: Erik Kremer (NWMO)*

*Chair: Erik Kremer (NWMO), Mark Gobien (NWMO)*

**(12401) Fifth Case Study: Identification and Analysis of Disruptive Scenarios** **855**

*F. Garisto (NWMO), J. Avis (Geofirma Eng Ltd), M. Gobien, E. P. Kremer, C. Medri (NWMO)*

**(12689) Detailed Gas Generation and Transport Modelling at the Room and Repository Scale** **863**

*J. D. Avis, N. Calder (Geofirma Eng Ltd), E. P. Kremer (NWMO)*

**(12497) Modeling the Accumulation of Thermally Fissile Materials in HLW Repository** **871**

*Alex Salazar, Joonhong Ahn (Univ of California, Berkeley)*

**(12580) A Criticality Safety Study for the Disposal of Damaged Fuel Debris** **879**

*Xudong Liu, Joonhong Ahn (Univ of California, Berkeley), Fumio Hirano (JAEA)*

**Storage and Transportation: Transportation Analysis and Testing— II**

*Session Organizer and Chair: Ruth F. Weiner (Boston Government Services)*

**(12626) A Sufficiency Criterion for Spent Fuel in Dry Storage** **887**

## **Subjected to Transportation Accident Conditions**

*Joseph Rashid (ANATECH), Albert Machiels (EPRI)*

### **(12623) The Impact of Cask Wake on Materials Released from a Type B Cask** **896**

*Christopher Clutz, Ruth Weiner (SNL)*

### **(12676) Shielding Evaluation of the ENSA ENUN 32P Cask for Zonal Loading** **905**

*Dominic Napolitano, David Hartmangruber, Drew Blackwell (Enercon Federal Services), David Garrido (Equipos Nucleares, SA)*

### **(12677) Burnup Credit Criticality Evaluation of the ENSA ENUN 32P Cask** **911**

*Curt Lindner, Dominic Napolitano, Alan Wells (Enercon Federal Services), David Garrido (Equipos Nucleares, SA)*

## **Regulatory and Institutional Topics—Management, Oversight and Decommissioning of Nuclear Facilities**

*Session Organizer and Chair: Kevin A. McMahon (SNL)*

### **(12604) Content Analysis of DOE Occurrence Reports at Nuclear Chemical Facilities** **917**

*Lyndsey Fyffe (Vanderbilt Univ), James A. Hutton (DOE), James H. Clarke, Steven Krahn, David Kosson (Vanderbilt Univ)*

### **(12698) Aging Management Program for Reinforced Concrete Structures** **922**

*Ricardo D. Torres, Bhasker P. Tripathi, Emma L. Wong, John P. Wise, Darrell S. Dunn, Aladar A. Csontos (NRC)*

## **Additional Paper**

### **(13770) Feasibility of Acoustic Methods for Impurity Gas Monitoring in Dry Storage Systems** **829**

*R. Meyer, J. Cuta, A. Jones, K. Denslow, P. Ramuhalli, H. Adkins, B. Hanson*