

Th22 New Applications of HRA

Thursday 9/20/2018 3:30 PM Discovery

Chair: Ronald Boring

- 134 **Human Reliability Considerations from the Hawaii Ballistic Missile Alert Event**
Heather Medema (a), Harold Blackman (b), Kateryna Savchenko, and Ronald Boring (a)
a) Idaho National Laboratory, Idaho Falls, Idaho, USA, b) Boise State University, Boise, Idaho, USA
- 191 **On factors Affecting Autonomous Ships Operators Performance in a Shore Control Center**
Marilia A. Ramos, Ingrid B. Utne (a), Ali Mosleh (b)
a) NTNU, Trondheim, Norway, b) UCLA, Los Angeles, U.S.A
- 205 **Serious Games & Human Reliability. The Use of Game-Engine-Based Simulator Data for Studies of Evacuation Under Toxic Cloud Scenario**
Marcos V. P. Andrade, Caio B. Souto Maiora, Erika O. Silva, Márcio C. Moura and Isis D. Lins
Center for Risk Analysis and Environmental Modeling, Department of Production Engineering, Federal University of Pernambuco, Recife, Brazil

Th23 Dynamic PSA/PRA V

Thursday 9/20/2018 3:30 PM Illumination

Chair: Martina Kloos

- 295 **Joint Application of Risk Oriented Accident Analysis Methodology and PSA Level 2 to Severe Accident Issues in Nordic BWR**
Sergey Galushin (a), Lisa Ranlöf, Ola Bäckström, Yvonne Adolffson (b), Dmitry Grishchenko, Pavel Kudinov (a), Anders Riber Marklund (b)
a) Royal Institute of Technology (KTH), Stockholm, Sweden, b) Lloyd's Register Consulting, Stockholm, Sweden
- 247 **Comparison of Dynamic Event Trees with and without a Human Reliability Interface in a PWR Station Blackout using Severe Accident Management Guidelines**
Emily Sandt, Brian Cohn, Yunfei Zhao, Carol Smidts, and Tunc Aldemir
The Ohio State University, Columbus, Ohio, USA
- 262 **Results of an IDPSA Aimed to Assess the Potential of a Thermally Induced Steam Generator Tube Rupture**
Martina Kloos and Joerg Peschke
Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH, Garching, Germany
- 355 **Recent Analysis and Capability Enhancements to the ADAPT Dynamic Event Tree Driver**
Zachary Jankovsky (a,b), Matthew Denman (b), and Tunc Aldemir (a)
a) The Ohio State University, Columbus, Ohio, USA, b) Sandia National Laboratories, Albuquerque, New Mexico, USA

Th24 Risk and Hazard Analysis V

Thursday 9/20/2018 3:30 PM Legacy A

Chair: Mihai Diaconeasa

- 268 **Main Results and Conclusions of the OL3 Level 1 and Level 2 PSAs for the Operating License in Connection with the Fulfillment of the Regulatory Requirements**
Heiko Kollasko, Gerben Dirksen (a), Roman Grygoruk (b), Jari Pesonen, Lasse Tunturivuori and Antti Tarkiainen (c)
a) Framatome GmbH, Erlangen, Germany, b) AREVA GmbH, Erlangen, Germany, c) TVO, Olkiluoto, Finland
- 317 **What is Risk and What is Safety?**
Per Hellström
Swedish Radiation Safety Authority, Stockholm, Sweden
- 52 **Economic Risk Analysis for Gamma Irradiator**
Nestor A. López Fernández, Pamela F. Nelson (a), and Florentino A. López Núñez (b)
a) Universidad Nacional Autónoma de México, Mexico City, Mexico, b) Instituto Superior de Tecnologías y Ciencias Aplicadas, La Habana, Cuba
- 382 **A Project to Encourage the Early Integration of Safety Assessment into the Design, License, and Build Process of Nuclear Power Plants – Status Report**
Steve Krahn, Brandon Chisholm (a), and Andrew Sowder (b)
a) Vanderbilt University, Nashville, TN, USA, b) Electric Power Research Institute (EPRI), Charlotte, NC, USA

Th25 Risk Assessment Methods V

Thursday 9/20/2018 3:30 PM Legacy B

Chair: Chris Everett

- 343 **A New Layer to the PRA: Operational Performance Risk Assessment**
 Askin Guler Yigitoglu, Michael D. Muhlheim, Sacit M. Cetiner (a), Richard S. Denning (b)
a) Oak Ridge National Laboratory, b) Research Consultant
- 369 **Tractebel's Hydrogen Risk Analyzer : A tool to Assess the Loads and Risks Associated to Hydrogen Combustion Inside Nuclear Buildings**
 Jérémy Bulle
Tractebel (ENGIE), Brussels, Belgium
- 380 **Identification and Quantification of Risk Scenarios for a Unique Nuclear Reactor – a Historical Example**
 D.H. Johnson (a), M.A. Linn (b), and C.T. Ramsey (b)
a) B John Garrick Institute for the Risk Sciences, Los Angeles, USA, b) Oak Ridge National Laboratory, Oak Ridge, USA
- 298 **Risk Analysis Framework for Decision Support for Severe Accident Mitigation Strategy in Nordic BWR**
 Sergey Galushin, Dmitry Grishchenko, Pavel Kudinov
Royal Institute of Technology, Stockholm, Sweden

Th27 Special Session: Which Way SPRA?

Thursday 9/20/2018 3:30 PM Laureatte