

## RESET of U.S. Nuclear Waste Managements Strategy and Policy

### Meeting #5: *Regulations, Risk and Safety*

October 26-27, 2016, Stanford University

#### Wednesday, October 26<sup>th</sup>

8:30 am Breakfast

9:15 am *Introduction to the meeting: Rod Ewing (steering committee)*

9:30 am *U.S. program:*  
*Chaired by Allison Macfarlane – Steering Committee*

- **Allison Macfarlane** - (steering committee)  
*History and Status of US Repository Program*  
Elliot School, George Washington University
- **Chris Whipple** (steering committee)  
*Rationale of the NAS report (1995) for the Yucca Mountain standard*  
ENVIRON
- **Tim McCartin** – *Framework and regulatory requirements for U.S. geological repository*  
US Nuclear Regulatory Commission
- **Peter Swift** – *Implementing a license application for a geologic repository in the U.S.*  
Sandia National Laboratories

Panel Discussion

12:00 pm Lunch

**1:00 pm**     ***International Programs:***  
*Chaired by Christophe Poinssot – steering committee*

- **Claudio Pescatore** – *Regulation, Safety, Uncertainty, Confidence*  
Nuclear Energy Agency (NEA, OECD) – retired
- **Allan Hedin** – *Swedish regulations and SKB's compliance demonstration for an SNF repository*  
Swedish Nuclear Fuel and Waste Management Company (SKB – Swedish implementer)
- **Patrick Landais** – *A tool for fully integrating scientific data and models in the safety analysis: The Phenomenological Analysis of Repository Situation (PARS)*  
French National Radioactive Waste Management Agency (ANDRA – French implementer)
- **Mathilde Maillard** – *French DGR regulatory infrastructure*  
Autorité de sûreté nucléaire (ASN – French regulator)

Panel Discussion

**5:00 pm**     **Session ends**

**6:00 pm**     ***Dinner for speakers and steering committee***

**Thursday, October 27<sup>th</sup>**

**8:00 am**     **Breakfast**

**8:30 am**     ***Risk, Regulation and Safety from the Perspective of the Social Sciences***  
*Chaired by Dan Metlay – steering committee*

- **Céline Kermisch** – *Towards an ethical management of HLRW: challenging the notion of future generations*  
Université Libre de Bruxelles (philosophy and ethics of risk)

- **David Victor** – *What we have learned from Community Engagement at San Onofre: long-term stewardship of a decommissioning site*  
Director, Laboratory of International Law and Regulation and Professor, School of Global Policy and Strategy, UC San Diego
- **Otwin Renn** – *Governing and communicating complex risks: the case of nuclear energy*  
Scientific Director at the Institute for Advanced Sustainability Studies in Potsdam (Germany); Professor and Chair, Environmental Sociology and Technology Assessment, Stuttgart University (via video connection)
- **John Downer** - *Three Questions in Search of an Accident: How Policymakers Misconstrue Nuclear Risk Assessments*  
Lecturer in Risk and Resilience, University of Bristol
- **Andrew Stirling** - *Changing the Nuclear Waste Management Paradigm: From Risk Regulation to Innovation Democracy?*  
Professor of Science & Technology Policy, University of Sussex

Panel Discussion

**12:00 pm Lunch**

**1:00 pm** ***Modeling and Probabilistic Risk Assessments (PRAs):**  
Chaired by Bernd Grambow – steering committee*

- **Kirk Nordstrom** – *Geochemical Modeling and the Case for Safety*  
US Geological Survey (geochemical modeling)
- **Lenny Konikow** - *Reliability of Long-Term Predictions Made Using Groundwater Models*  
US Geological Survey (hydrology)
- **Kate Maher** – *Modeling actinide fate and transport*  
Geological Sciences, Stanford (reactive transport modeling)
- **Ali Mosleh** – *Why and How We Do PRA*  
Director, John Garrick Institute for the Risk Sciences, UCLA

- **George Apostolakis** – *Regulatory Decision Making*

Professor Emeritus, Nuclear Science & Engineering, MIT

Panel Discussion

**5:00 pm** *Wine and Cheese Reception with CISAC Faculty, Fellows & Staff*

**8:00 pm** *Dinner for the Steering Committee*