



**NEA**

NUCLEAR ENERGY AGENCY

**NEA Nuclear Science Committee**

**Workshop “Enhancing Experimental Support for  
Advancements in Nuclear Fuels and Materials”**

**8-10 January, 2018**

**Draft Agenda**

OECD Headquarters,  
OECD Conference Center, Room CC15  
2, rue André Pascal Paris, France

**NEA Nuclear Science Committee (NSC)**

**Workshop “Enhancing Experimental Support for Advancements in Nuclear Fuels and Materials”**

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**DRAFT AGENDA**

Workshop chair: **John Herczeg**, Chairman of the Nuclear Science Committee,  
Deputy Assistant Secretary, USDOE

**Day 1 Monday, 8 January 2018**

**12:30 – 17:45 (with coffee break)**

**OPENING SESSION:**

- **William D. Magwood, IV**, Director-General of the Nuclear Energy Agency (NEA)
- **John Herczeg**, Chairman of the Nuclear Science Committee, Deputy Assistant Secretary, USDOE

**SESSION 1: INDUSTRY EXPERIENCE AND PERSPECTIVES IN FUEL AND MATERIALS EVOLUTION**

**Chair: Randy Stark**, Director, Fuels & Chemistry, Electric Power Research Institute (EPRI), USA

**Co-chair: Phillip Finck**, Senior Scientific Advisor, Idaho National Laboratory (INL), USA

**Speakers:**

- **Michel Maschi**, Vice President EDF R&D Generation and Engineering, Électricité de France (EDF), France
- **Ken Petersen**, Vice President, Nuclear Fuels at Exelon Nuclear, USA
- **Alexey Dolgov**, Director of R&D Department, Joint-Stock Company TVEL, Russia
- **Kevin Ledford**, Senior Manager of Fuel Technology, Global Nuclear Fuel, USA
- **Jonathan Wright**, Manager Materials and Fuel Rod Design, Westinghouse Electric Company, USA
- **Rostislav Štaubr**, Nuclear Fuel Manager, Fuel Cycle Unit, ČEZ, Czech Republic
- **Hideyuki Teshima**, Deputy General Manager, Fuel and Core Engineering Department, Fuel Engineering Division, Mitsubishi Nuclear Fuel Co, Ltd., Japan
- **Kazuo Kakiuchi**, Senior Specialist, Toshiba Energy Systems & Solutions Corporation, Japan
- **David Schrire**, Specialist in Fuel Performance, Vattenfall Nuclear Fuel AB, Sweden

**Panel discussion 16:30 – 17:45**

**Cocktail Reception (starting at 17:45)**

## Day 2 Tuesday, 9 January 2018

8:00 – 8:45

### SESSION 1: INDUSTRY EXPERIENCE AND PERSPECTIVES IN FUEL AND MATERIALS EVOLUTION (CONT'D)

**Chair: Randy Stark**, Director, Fuels & Chemistry, Electric Power Research Institute (EPRI), USA

**Co-chair: Phillip Finck**, Chief Scientist, Idaho National Laboratory (INL), USA

- Wrap-up discussion towards conclusions and actions
- **Nicolas Waeckel**, Corporate Expert on Fuel Design and International R&D, Engineering Division, Électricité de France (EDF), France  
*“Nuclear fuel R&D facing new paradigms to address industrial needs”*

8:45 – 12:00 (with coffee break)

### SESSION 2: ADVANCES IN NUCLEAR SCIENCE: PROMISING FUEL TECHNOLOGIES, MODELLING AND VALIDATION METHODS, AND ASSOCIATED EXPERIMENTAL CHALLENGES

**Chair: Kemal Pasamehmetoglu**, Associate Laboratory Director, Idaho National Laboratory (INL), USA

**Co-chair: Alexander Tuzov**, Director, Joint-stock Company “State Scientific Center - Research Institute of Atomic Reactors” (JSC SSC RIAR), Russia

#### Speakers:

- **Leonid Bolshov**, Scientific Leader, Academician, The Nuclear Safety Institute of Russian Academy of Sciences (IBRAE RAS), Russia
  - **Timothy Valentine**, Director, Radiation Safety Information Computational Center, ORNL/RSICC, USA
  - **Carole Valot**, Research Engineer  
**Jean-Christophe Brachet**, Research Engineer,  
Commissariat à l'énergie atomique et aux énergies alternatives (CEA), France
  - **Al Csontos**, Technical Executive, Fuel Reliability & High-Level Waste, EPRI, USA
  - **Masaki Kurata**, Senior Principal Researcher, Division Leader, Debris Characterization & Core Status Evaluation Division, Collaborative Laboratories for Advanced Decommissioning Science (CLADS), Japan Atomic Energy Agency (JAEA)
- Marie Moatti**, Executive, Fuel Economy and Safety, Nuclear Fuel Division, Électricité de France (EDF), France

Panel Discussion 11:15 – 12:30

**SESSION 3: TECHNICAL SUPPORT ORGANISATIONS' PERSPECTIVES FOR OPERATION OF CURRENT AND INNOVATIVE FUEL AND MATERIALS**

**13:30 – 16:30 (with coffee break)**

**Chair: Jean-Christophe Niel**, Chair of the Committee on the Safety of Nuclear Installations (CSNI), Director-General, Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France

**Speakers:**

- **Mirela Gavrilas**, Director, Division of Safety Systems, Nuclear Regulatory Commission (NRC), USA
- **Kunio Onizawa**, Director, Planning and Coordination Office, Sector of Nuclear Safety Research and Emergency Preparedness, Japan Atomic Energy Agency Nuclear Safety Research Center (JAEA), Japan
- **Valery Pivovarov**, Leading Scientist, Rostehnadzor, Russia
- **Olivier Marchand**, Deputy Head of Department, Department of management of incidents and accidents, Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France

**Panel Discussion 15:30 – 16:30**

**INTERMEDIATE SESSION**

**16:30 – 17:00**

- **Carlo Vitanza**, NEA Consultant, *"Sharing experience with NEA Joint Projects"*

**SESSION 4: EXPERIMENTAL INFRASTRUCTURE: PERSPECTIVES IN ADVANCED INSTRUMENTATION AND EXPERIMENTAL TECHNIQUES TO SUPPORT FUEL DEVELOPMENT**

**17:00 – 17:30**

**Chair: Hamid Ait Abderrahim**, Deputy Director-General, Belgian Nuclear Research Centre (SCK.CEN), Belgium

**Co-chair: Nicolas Waeckel**, Corporate Expert on Fuel Design and International R&D, Engineering Division, Électricité de France (EDF), France

**Speakers**

- **Alexander Tuzov**, Director, Research and Science Joint-stock Company "State Scientific Center - Research Institute of Atomic Reactors" (JSC SSC RIAR), Russia

Day 3

Wednesday, 10 January 2018

**SESSION 4: EXPERIMENTAL INFRASTRUCTURE: PERSPECTIVES IN ADVANCED INSTRUMENTATION AND EXPERIMENTAL TECHNIQUES TO SUPPORT FUEL DEVELOPMENT (CONT'D)**

**08:00 – 12:30 (with coffee break)**

**Chair: Hamid Ait Abderrahim**, Deputy Director-General, Belgian Nuclear Research Centre (SCK.CEN), Belgium

**Co-chair: Nicolas Waeckel**, Corporate Expert on Fuel Design and International R&D, Engineering Division, Électricité de France (EDF), France

**Speakers:**

- **Rory Kennedy**, Director of the US DoE Nuclear Science User Facilities (NSUF) Program, Idaho National Laboratory (INL), USA
- **Scott Holcombe**, Manager, Research and Development Department, Institute for Energy Technology/The Halden Reactor Project (IFE/HRP), Norway
- **Alexey Izhutov**, Deputy Director, Research and Science Joint-stock Company “State Scientific Center - Research Institute of Atomic Reactors” (JSC SSC RIAR), Russia
- **Gilles Bignan**, User Facility Interface Manager, Jules Horowitz Research Reactor (JHR) Project, Commissariat à l'énergie atomique et aux énergies alternatives (CEA), France
- **Konstantin Koshcheev**, Chief Specialist, Science and Innovation Development Department, Joint-stock Company “Institute of Nuclear Materials” (JSC INM), Russia
- **Christelle Manenc**, Project Leader of Experimental Program on Cabri Reactor Department of Experimental Research, Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France
- **Phillip Finck**, Senior Scientific Advisor, Idaho National Laboratory (INL), USA

**Panel Discussion 11:20 – 12:30**

## Day 3 Wednesday, 10 January 2018 (cont'd)

### CLOSING SESSION 13:30 – 15:30

**Chair: John Herczeg**, Chair of the Nuclear Science Committee, Deputy Assistant Secretary, USDOE

- **Fiona Rayment**, Executive Director, Nuclear Innovation and Research Office (NIRO)  
National Nuclear Laboratory (NNL), UK  
**Daniel Iracane**, Deputy Director-General and Chief Nuclear Officer, NEA  
*"Towards Nuclear Innovations 2050 (NI2050)"*
- **Conclusions by session chairs and workshop chair and discussion**
- **William D. Magwood, IV**, Director-General of the Nuclear Energy Agency (NEA)  
Closing remarks