

## **CALL FOR PAPERS**

### **International Public Dialogue-Forum and Exhibition**

**“AtomEco-2017”**

**November 21-22, 2017, Moscow**

Global environmental problems have caused a significant part of professional ecologists and experts to take a fresh look at the contribution of nuclear technology and energy to ensuring a supportive environment. The need to develop the nuclear industry in the world was confirmed with unconditional compliance with the most stringent safety requirements.

The issues of environmental safety of the nuclear industry have always been under the scrutiny of society, widely discussed within the framework of the International Public Dialogue- Forums "Nuclear Energy, Environment, Safety".

In 2017, which is announced in the Russian Federation as the Year of Ecology, the International Public Dialogue-Forum will be held jointly with the International Exhibition and Conference "AtomEco" - a successfully established international platform for professionals in the field of radioactive waste management, decommissioning of nuclear facilities and subsequent rehabilitation of the sites.

The purpose of the unified event is to demonstrate to the general public and specialists the priority of environmental safety in the nuclear industry, new environmentally friendly technological solutions, advanced technologies in the field of radioactive waste management (RWM) and spent nuclear fuel (SNF) management, decommissioning of nuclear and radiation hazardous facilities.

The Forum is organized by the Public Council of The State Atomic Energy Corporation Rosatom, The State Atomic Energy Corporation Rosatom, Federal Environmental, Industrial and Nuclear Supervision Service (Rostekhnadzor), Concern Rosenergoatom, Non-Governmental Environmental Foundation named after V.I. Vernadsky, Research Institute of Ecology Problems, Atomexpo LLC, Green Cross Association.

The Dialogue-Forum is held with the support of the Russian Academy of Sciences, the Public Council under Rostekhnadzor. The partner of the forum is Paks NPP (Hungary).

Foreign and Russian experts will discuss the most actual issues in the development of the nuclear industry: safety of spent fuel management and radioactive waste management; safety regulation in the nuclear energy use, current results and prospects for the implementation of the Federal Target Program "Ensuring Nuclear and Radiation Safety for 2016-2020 and for the Period until 2030" (FTP NRS-2), decommissioning of nuclear and radiation hazardous facilities; the potential of the nuclear industry for the development of the Arctic region and ensuring its environmental safety; innovative technologies for SNF management to ensure energy-efficient fuel use and environmental acceptability of nuclear energy; a wide range of issues of constructive interaction with the public in the development of nuclear projects.

During AtomEco-2017 a thematic exhibition will be held where leading Russian and foreign companies will demonstrate technologies and equipment for spent fuel management, radioactive waste management and decommissioning of nuclear and radiation hazardous facilities. Participation in the exhibition will allow companies to present their products and services to the target audience, expand scientific and business contacts, attract new customers and partners, negotiate with key business partners, increase the company's recognition among the key players in the nuclear industry and assess the state of the market and requests of the society.

We invite to participate the representatives of following organizations:

- interested public organizations;
- local and regional authorities of the territory where nuclear industry enterprises are located;
- nuclear industry enterprises;
- state nuclear and radiation safety regulatory authorities;
- international organizations engaged in cooperation in the field of the atomic energy use (IAEA, OECD NEA, etc.);
- sectorial and academic science, expert community,
- trade union and veteran organizations of the nuclear industry;
- mass-media.

**Date:** November 21-22, 2017; November 20, 2017 – technical tours;

**Venue:** International Trade Center (Krasnopresnenskaya emb., 12, Moscow, Russia)

## **PRELIMINARY PROGRAM**

NOVEMBER, 20

- 1. Complex technical tour to the Kaluga Nuclear Cluster (Obninsk), including:**
  - Federal Information and Analytical Center of Roshydromet (SPU Typhoon),
  - Karpova Research and Production Complex for Radiation and Chemical Technologies,
  - State Scientific Center Physics and energy institute,
  - Medical Radiological Research Center. A.F. Tsyba.
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- 2. Technical tour at Specialized scientific research institute of instrument making (JSC “SNIP”), Moscow.**

NOVEMBER 21

### **Plenary session "Clean Energy for Future Generations"**

Invited to participate:

**Alexey Likhachev**, Chief Executive manager of the ROSATOM;

**Sergey Donskoy**, Minister of Natural Resources and Environment of the Russian Federation;

**Alexey Aleshin**, Chairman of the Federal Environmental, Industrial and Nuclear Supervision Service;

**Mikhail Kovalchuk**, President of the Research Center "Kurchatov Institute";

**Patricia Espinosa**, Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC);

**Mikhail Chudakov**, IAEA Deputy Director General and Head of the Department of Nuclear Energy.

### **Track SAFETY, TECHNOLOGY, ENVIRONMENT**

- 1. Round table "Arctic and Atom: Development and Environment"**
  - The main directions of development of the Arctic zone of the Russian Federation and ensuring national security.
  - Innovative technologies of the State Corporation Rosatom for the development of the Arctic.
  - Nuclear icebreaking fleet for the development of the Northern Sea Route: environmental and economic aspects.
- 2. Session "Decommissioning of Nuclear and Radiation Hazardous Facilities. Radioactive Waste Management"**
  - The first Russian scientific journal on RW: tasks and presentation of the first issue.
  - Financial feasibility study of the development of regulatory basis for radioactive waste management.
  - On the development of acceptability criteria on the basis of safety assessments.
  - Safety regulations for radioactive waste management.
  - Development and enactment of safety regulations for radioactive waste management.
- 3. Session "Closed Nuclear Fuel Cycle - as the Basis of Clean Nuclear Power. Innovative Russian Technologies for SNF management"**
  - Advantages of closing the nuclear fuel cycle from the point of view of ecological safety, rational use of natural resources and other aspects.
  - Creation and development of a two-component nuclear power system in Russia.
  - Results and prospects for the recycling of nuclear materials, the use of REMIX fuel.

- Creation of an innovative infrastructure for SNF management.
- HLW management.

#### **Track REGULATION AND ENVIRONMENTAL PROTECTION**

- 4. Session “On the Fifth National Report of the Russian Federation "On the fulfillment of obligations arising from the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management"”**
- 5. Session "Current Challenges and Approaches to Safety Regulation in the Field of the Atomic Energy Use Taking into Account the Interests of Society and the State"**
  - Search for an effective format for interaction between stakeholders in the implementation of the program for the development of a radioactive waste disposal system.
  - Integrated management system of a regulatory body.
  - Emergency preparedness and response.
- 6. Session "Decommissioning of Nuclear and Radiation Hazardous Facilities. Safety Regulation and Technology"**
  - Safety regulations for nuclear facilities decommissioning. Current state and directions of improvement.
  - Establishment of an international center for the irradiated graphite management.
  - Experience in the implementation of preparatory work (KIRO, design) and the work of the main stage of the decommissioning, problems and solutions.
  - Digital technologies for decommissioning of nuclear and radiation hazardous facilities.
  - International approaches to solve decommissioning problems, coordinating role of the NEA.

#### **Track SOCIETY AND ENVIRONMENT**

- 7. Round table "Public Acceptance of Nuclear Power. Ethics of Decision Making”**
  - Safety criteria (5S) and performance Criteria (4LE) for modern Nuclear Energy Programs.
  - Environment, ethics and aesthetics factors in modernization/initiation of the national nuclear development programs.
  - Fostering the culture for safety in nuclear field.
- 8. Round table “Interaction with the Public in the Uranium Ore Mining Areas”**
  - Dialogues with the public of Russian uranium ore mining facilities.
  - Implementation of international programs in CIS countries.
- 9. Round table “Modern Formats of Interaction with the Public when Constructing NPP. Russian and Foreign Experience”**
  - Experience of interaction with the public in Russia.
  - Specific features of working with public opinion in countries with different levels of national nuclear programs development.
  - Successful communication technologies.

NOVEMBER 22

#### **Track SAFETY, TECHNOLOGY, ENVIRONMENT**

- 10. Session "Contribution of FTP NRS-2 to Reducing the Burden on the Environment. The First Results, Goals and Objectives for 2018 - 2019.”**
  - Elimination of nuclear legacy at enterprises involved in defense programs, enterprises of the nuclear fuel cycle and in scientific organizations.
  - Issues of decommissioning of nuclear legacy facilities.
  - Creation of infrastructure facilities for radioactive waste management and SNF management.

- Amendment of the legislation in the field of radioactive waste and SNF management and decommissioning of nuclear and radiation hazardous facilities.

**11. Session "Nuclear Legacy Elimination at the Facilities of the North-West of Russia. The Experience of International Cooperation in Solving Nuclear and Ecological Challenges"**

- Experience of international cooperation in solving the problem of preparation for SNF removal from Andreeva Bay storage facilities.
- Solving the problems of creating a nuclear-free zone at the Gremikha point.
- Establishment of a regional radwaste management center in Saida Bay in order to ensure the environmental safety of the Northwest.
- The problems of liquidation of the Lepse, the current state of the project and the further schedule of work.

**Track REGULATION AND ENVIRONMENTAL PROTECTION**

**12. Session "Underground Research Laboratories (URL): Demonstration of Long-Term Safety of Deep Disposal of High-Level Radioactive Waste"**

- Status of the implementation of the project for the creation of URL in the Lower Kansk rock massif.
- Research program in URL in the Lower Kansk rock massif.
- Status of the implementation of the foreign projects for deep HRW disposal facilities.
- Demonstration of long-term safety of deep HRW disposal: Russian and foreign experience.
- Issues of the organization of public control in the process of creating the URL in the Krasnoyarsk Territory.

**13. Round table "Transformation of Legislation in the Field of Environmental Protection in the Russian Federation. Results and Prospects for the Nuclear Industry"**

- Environmental reforms and practical application of changes in environmental legislation in the organizations of the State Corporation Rosatom;
- Adaptation of the corporation to tightening of legal and regulatory documents in the field of environmental protection;
- Problems of transition of the nuclear industry organizations to BAT and ways of their solution.

**Track SOCIETY AND ENVIRONMENT**

**14. Roundtable "Role of women in fostering acceptance of the nuclear industry: international and Russian experience"**

- Opportunities, best practices and experience of "female" communications with interested public in Russia and abroad.

**15. Round table «Modern Formats of Public Dialogue Regarding the RAW Storage and Final Disposal. Russian and Foreign Experience»**

- Organization of a public dialogue on RAW storage and final disposal projects in Russia.
- Foreign experience in organizing a public dialogue about RAW storage and final disposal projects.

**Additional activities**

- Presentation of the book "Environmental Protection of Nuclear industry"
- Exhibition of the International Children's Photography Contest "In the Embrace of Nature"
- Thematic presentation and discussion sessions:
  - Presentations of schoolchildren and students on the ecological theme of the nuclear industry,
  - Presentations of enterprises,
  - Presentation of Paks and Geriens Municipalities (Paks NPP and Paks 2 NPP, Hungary).

## **THE TERMS OF PARTICIPATION**

Registration fee from participants of the Dialogue-Forum is free of charge. Applications are accepted by e-mail or through the mobile application “AtomEco 2017”. Proposals for the inclusion of reports in the forum program, applications for participation and abstracts of reports (annotations), please send to: [atom.dialog@gmail.com](mailto:atom.dialog@gmail.com).

### **DEADLINES**

Applications for participation in the Dialogue-Forum with a report and from foreign participants are accepted until November 1, 2017. Applications from Russian participants without a report are accepted until November 15, 2017. Foreign participants must submit a copy of their passport together with the application.

### **ADDITIONAL INFORMATION**

When creating the materials of the Forum, only the data indicated in the form and materials sent to the Organizing Committee in the established time will be used. Abstracts of presentations (abstract) are provided for 5 days after sending the application. Without the timely provision of abstracts (annotations), the application will be withdrawn from consideration.

Materials of speeches (presentations and final texts of reports) are submitted to the Organizing Committee no later than November 15, 2017. Presentations should be prepared in MS PowerPoint or Adobe Reader formats (PDF).

Speakers, representing public organizations and local communities, the Organizing Committee purchases tickets from the place of residence to the venue of the Forum and back and provides accommodation. The costs incurred independently are not compensated.

We draw the attention of the prospective participants of the Forum to the fact that the declared topics and theses of the speeches will be considered by the Organizing Committee of the Forum for inclusion in the program according to the criteria for compliance with the main themes of the event.

### **CONTACT INFORMATION**

For participation in the business program:

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+7 (499) 949 2320 - Olga Golovikhina.

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For participation in the exhibition:

+7 (495) 922-89-95 (ext. 152), - Ekaterina Bulgachenko;

E-mail: [ESBulgachenko@atomexpo.com](mailto:ESBulgachenko@atomexpo.com)

### **INFORMATION ON WEBSITES:**

Www.osatom.ru www.atomeco.org www.vernadsky.ru, www.gosnadzor.ru, [www.niipe](http://www.niipe).