

INTERNATIONAL FORUM «ATOMEXPO 2010»



«NUCLEAR POWER: DRIVER OF INNOVATIVE DEVELOPMENT»

Moscow • Manezh Central Exhibition Hall • 7-9 June 2010

CONGRESS PROGRAM

7 JUNE 2010 – Round-table sessions 13:00 – Official Opening of the Exhibition

8 JUNE 2010 - Plenary Sessions, Symposium

9 JUNE 2010 - Round-table sessions

PLENARY SESSIONS PROGRAM

8 JUNE 2010

Topic: Innovative contribution of nuclear industry to economy modernization

Moderator: Anil Kakodkar, Member of Atomic Energy Commission of India

10:00 - 13:00	Plenary Session I	Hall 1

- Sergey Sobyanin, Deputy Chairman of the Russian Government, Chairman of the Supervisory Board of Rosatom.
- Alexander Torshin, First Deputy Chairman of the Council of Federation of the Federal Assembly of the Russian Federation. Welcome Address on behalf of the Council of Federation.
- Sergey Kirienko, Director General, Rosatom.
- Bernard Bigot, Director General, Commissariat for Atomic Energy of France.
- Takuya Hattori, President, Japan Atomic Industrial Forum. Nuclear Energy in Japan: Innovation and Contribution to Global Society.
- Carlos M. Gutierrez, Secretary of Commerce in the Cabinet of U.S. President George W. Bush Jr.
- Luc Oursel, Chief Operating Officer, Nuclear Operations, Group AREVA. *Nuclear industry contribution in the economic modernization of France.*
- Guy Chardon, Senior Vice President, Alstom.
- Michael Suess, Executive Director of Energy Sector, Siemens AG. Nuclear energy as the central component of a sustainable energy mix Siemens' contributions to this upcoming market.
- Tony Ward, Partner, Global Nuclear Power Leader, Ernst & Young. *Nuclear prospects geared by innovations*.

14:00 - 18:00	Plenary Session II	Hall 1
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- Laurent Stricker, Chairman, World Association of Nuclear Operators.
- Sergey Yashin, Vice President, NAC Kazatomprom. NAC Kazatomprom uranium production and delivery planning for the world nuclear industry.
- Takahiko Iikura, Technology Executive, Toshiba Power Systems Company. Toshiba Nuclear Activities.
- Ron Cameron, Head of Nuclear Power Development Division, OECD/NEA. Nuclear Power Putting the Costs and Financing in Perspective.
- Jeff Benjamin, Senior Vice President of CH2M HILL. Establishing New Nuclear Power Programs.

ROUND-TABLE SESSIONS PROGRAM

7 JUNE 2010

10:00 - 13:30	Round-table session «Human Capital in Nuclear: Challenges and	Hall 1.1
	Solutions»	

Moderator: A. Gutierrez, Director for Key Clients Development, Moscow School of Management SKOLKOVO.

- T. Kozhevnikova, Deputy Director General of SC Rosatom. *Introductory address on the strategy and best personnel management practices in SC Rosatom and its organizations;*
- Ya. Kon, Vice President, JSC TVEL. Optimization of organizational structures of production divisions benchmarked to the world best practices;
- A. Krupsky, Deputy Director for HR Management, Social and Administrative Issues, OJSC Concern Rosenergoatom. *Advancement of competences at enterprises: Training centers;*
- M. Strikhanov, Rector, NRNU MEPHI. Nuclear education: Meeting the global challenges;
- V. Artisyuk, Pro-rector, SEE DPO CATI. *HR development to build up related infrastructure in countries announced nuclear power development;*
- R. Kutsumi, Secretary General, ENEN;
- Address by an IAEA representative responsible for HR management and training;
- Dr. L. Varga-Sabjan, Director of Corporate Affairs and Human Resources. The Maintenance Training Center of Paks Nuclear Power Plant Ltd as a unique facility of the international cooperation.

10:00 - 13:30	Round-table discussion «Evolutionary and Innovative	Hall 2
	Development of Pressurized Light-Water Reactors »	

Moderator: V. Asmolov, First Deputy Director, OJSC Rosenergoatom Concern.

- Moderator's introductory address;
- V. Sidorenko, Advisor to Director; U. Semchenkov, Deputy Director for Science and Technology, RRC Kurchatov Institute. *NPPs with the next generation power light-water reactors;*

• S. Ryzhov, Director and Chief Designer, JSC OKB Gidropress. *Evolutionary and innovative development of water-water reactors;*

• V. Pivovarov, FSUE SSC IPPE. Vessel-type boiling water reactors;

• I. Kopytov, First Deputy Director General and Director for Facility Design, JSC Atomenergoproekt. *Optimizing the VVER plants performance in short term and IT-supported;*

A. Avdeev, Director General, OJSC VNIIAM. Secondary circuit optimizing for VVER plants;

• Representative of SPAEP. *Medium power plants with VVER-600 and VBER-600 reactors: Safety and economic efficiency;*

• A. Kroshilin, Deputy Director General, JSC VNIIAES. Information technologies to optimize plant design.

10:00 - 13:30	Round-table session «Unified APCS for NPPs with New	Hall 3
	Generation Reactors»	

Moderator: V. Kostyukov, Director, FSUE RFNC VNIIEF.

V. Zverkov, Head of Future Planning Division, OJSC VNIIAES. Unified APCS for new generation reactors;

- V. Koltsov, FSUE FRPC MSRI named after Yu.Ye. Sedakov. Upgrades of dispatcher control equipment for reactor units;
- V. Kishkin, First Deputy Chief Designer, FSUE VNIIA. Hardware & software complexes of shop automation for advanced APCS NPP;
- V. Khrobostov, RFNC VNIIEF. APCS hard&soft sets unification at NPP units (SKVM case);
- A. Kalinushkin, RRC Kurchatov Institute. *Experience in development and implementation of a modern system for monitoring of operation of nuclear fuel;*
- V. Zaguzov, Division Head, FSUE VNIIA. Pressure gages TZhIU 406-M100-AS for NPP applications;
- M. Makhnach, Leading Technical Support Engineer of the Customer Support Center, CJSC Industrial Group Metran. *Pressure gages for nuclear applications: Reliable solutions and new developments.*

13:00-13:30 - Official Opening Ceremony of the Exhibition

14:30 - 18:00	Round-table session «Power Generation Equipment and	Hall 1.1
	Services. Development of International Cooperation»	

Moderator: Vladimir Kashchenko, Director General, Atomenergomash JSC.

- R. Christie, President of Eastern Europe, Russia and CIS, GE Energy. *Power generation equipment maintenance. The importance of international cooperation.*
- O. Bernstrauch, Siemens Power Generation (Germany). Siemens steam turbine generator sets for advanced nuclear power plants;
- A. Tsvetkov, Director General, Alstom-Energomash LLC. Steam turbine upgrading potential at Russian nuclear plants;
- A. Rakhmaninov, Deputy Director of Department of Methodology and Procurement Organization, SC Rosatom. *Uniform Procurement Standard of SC Rosatom.*
- V. Skorobogatikh, Deputy General Director, CNIITMASH LLC;
- Yu. Saakyan, Director General, Institute of Natural Monopolies Research. *Potential for modernization of the Russian power generation as a basis for development of the international cooperation in power engineering;*
- V. Nedavny, Chief Engineer of the Project, OJSC Power Machines. New designs of steam turbines for NPPs by OJSC Power Machines;
- I. Kutuzov, Region Sales Manager, Energy, Environment and Oil&Gas Equipment Division, Alfa Laval Potok. Experience, production development and deliveries of equipment for the Russian nuclear industry;
- S. Shimansky, Nuclear Equipment Sales Director. *AUMA: controls for motor-driven valves at NPPs.*

14:30 - 18:00	Round-table session «Information Technology as a Tool to Raise	Hall 1.2
	Efficiency of the Nuclear Industry»	

Moderator: V. Pasynkov, Head of IT Department, SC Rosatom.

- N. Solomon, Deputy Director General, SC Rosatom. *Opening address: Information technologies as a tool to improve effectiveness;*
- V. Pasynkov, Head of IT Department, SC Rosatom. *Brief description of SC Rosatom's program of transformation of information technologies in 2010-2014;*
- E. Luanco, Vice President for Nuclear Solutions, Ventix. *Financial advantages of the common management system in nuclear;*

- Ye. Demianova, Rosatom. ERP-strategy of SC Rosatom;
- M. Yermolaev. Shared Services Center, SC Rosatom. *Experience in the Shared Services Center implementation;*
- A. Popov, Rosatom. Uniform industry-wide document management system;
- T. Rodina, IT Department Director, OJSC Concern Rosenergoatom. Development of an integrated system for centralized operative production planning and management in OJSC Concern Rosenergoatom;
- A. Koroid, Rosatom. *Engineering projects complex;*
- Ye. Fedotov, Deputy Director General, LLC AVEVA. A power generation facility life-cycle: Though a prism of engineering IT solutions;

14:00 - 18:00	Round-table session «Prospects of Kaliningrad Power System	Hall 2
	Development in Light of the Baltic NPP Commissioning»	

Moderator: A. Reznichenko, Head of Section for Science and Ecology, «RIA Novosti News Agency».

- A. Lokshin, Deputy Director General, SC Rosatom. *Opening address;*
- S. Boyarkin, Deputy Director General, OJSC Concern Rosenergoatom. Technical parameters of Baltic NPP;
- M. Kozlov, Head of Project Group "Baltic NPP, INTER RAO UES. Project features: Financing scheme and location of Baltic NPP;
- N. Stepanov, Head of Department of Foreign Economic Activity, On-line & Technical Support, Trading Unit INTER RAO UES, JSC. Potential options of electricity release by Kaliningrad Region Grid after the commissioning of Baltic NPP. Technical feasibility of export;
- A. Aleko, a representative of Kaliningrad Region. *Kaliningrad Region strategy on the construction of Baltic NPP and the related grid infrastructure;*
- Y. Borisov, Head of International Department, NP Sovet Rynka. *EU electricity market strategy until* 2025. *Cooperation between the Russian, the Baltics and European power grids;*
- A. Lokshin, Deputy Director General, SC Rosatom. *Closing Remarks*.

14:30 - 18:00	Round-table session «Closed Fuel Cycle with Fast Neutron	Hall 3
	Reactors»	

Moderator: O. Sarayev, Deputy Director General, OJSC Concern Rosenergoatom.

- A. Bychkov, Director, JSC SSC NIIAR. CFC technologies and fuel reprocessing;
- V. Rachkov, Director General, FSUE SSC RF IPPE. CFC development system;
- D. Zverev, Director, JSC OKBM Afrikantov. BN reactor technologies: Progress and development;
- M. Bakanov, Director, Beloyarsk NPP. BN-600 operating experience;
- V. Yershov, Director of Department for NPP Design, JSC SPAEP. Design bases of NPPs with commercial BN reactors;
- V. Troyanov, Senior Deputy Director, JSC VNIINM. Development of fuel for BN reactors;
- H. Funasaka, Senior Advisor for Research; K. Ishii, Senior Research Engineer, JAEA. Current state and prospects of fast reactor fuel cycle in Japan;
- P.R.Vasudeva Rao, Director of Chemistry Group, Indira Ghandi Institute of Atomic Research (Kalpakkam).

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10:00 - 13:00	Symposium: «Topical Issues of International Nuclear Law»	Hall 3

Chairperson: M. Lysenko, Director of the International Cooperation Department, SC Rosatom.

• V. Kuchinov, Advisor to Director General of SC Rosatom;

- A. Iorysh, Ph.D. (law), Head of the Group for Legal Issues on the uses of Atomic Energy, Institute of State and Law, RAS. *Legal and regulatory framework for nuclear material management in the Russian Federation;*
- A. Fatianov, Head of Department for General Law and Legal Bases of Security, National Nuclear Research University MEPHI. Topical issues of regulating interagency interaction at detection of illegal trafficking of nuclear materials and radioactive substances;
- Ye. Artemova, Head of Corporate and Legal Issues, JSC Techsnabexport. *Legal aspects of quoting Russian uranium products in EU;*
- A. Dedusenko, Head of International Law Division of the Legal Department, JSC Atomstroyexport. *Intenational legal aspects of attraction of investments in NPP construction abroad;*

Break

- J. Handrlica, Assistant, Law Department, Karlovsky (Prague) University. *Topical issues of the international nuclear law;*
- J. Hues, Managing Partner, Freshfields Bruckhause Deringer LLP. Development of relevant legal regimes for nuclear in new markets;
- T. Aitkulov, Partner, Clifford Chance CIS Ltd. Settlement of nuclear disputes by international arbitrators;
- M. Beradze, Teacher of the International Law Department of the RF MFA Diplomatic Academy. International legal liability of legal entities for lawful acts in the international nuclear law;

14:00 - 15:30	Joint Plenary:	Hall 3
	Round-table session «Topical Issues of Nuclear Law and	
	Legislative Support of Nuclear Industry Development» and	
	Symposium «Topical Issues of International Nuclear Law»	

Chairperson: T. Yelfimova, Deputy Director General, SC Rosatom.

Co-chairs: A. Torshin, First Deputy Chairman of the Federal Council; K. Zaitsev, Deputy Chairman of the State Duma Energy Committee; M. Lysenko, Director of the International Cooperation Department of SC Rosatom.

- T. Yelfimova. Deputy Director General, SC Rosatom. Legislative support of Russia's nuclear industry development: topical issues;
- A. Torshin, Activities of the Expert and Advisory Board on the Legislative Support of the Safe Development of Nuclear Power within the Federal Council;
- K. Zaitsev, Activities of the Expert Board on Legislative Support of Nuclear Industry within the State Duma's Energy Committee;
- A. Weatherall, Law Expert of Legal Office, IAEA. *Trends of international nuclear law;*
- M. Lysenko, Legal aspects of the international cooperation of SC Rosatom;
- A. Matveev. Some aspects of multilateral cooperation in nuclear area with participation of the international organizations;
- V. Pitel, Head of Nuclear Material Department, SC Rosatom. *Right of ownership of nuclear materials.*

16:00 - 18:00	Round-table session: «Legislative Support of Russia's Nuclear	Hall 2
	Industry Development»	

Chairperson: T. Yelfimova, Deputy Director General, SC Rosatom.

Co-chairs: A. Torshin, First Deputy Chairman of the Federal Council; K. Zaitsev, Deputy Chairman of the State Duma Energy Committee

- K. Zaitsev, Deputy Chairman of the State Duma Energy Committee. *Opening address;*
- A. Agapov, Director of Department for Nuclear and Radiation Safety, Organization of Licensing and Approval. Legal support of safety of innovative development of nuclear technologies in the Russian Federation;

- O. Supataeva, Leading Researcher, Institute of the State and law of RAS; G. Novikov, Deputy Director General for Methodology, FSUE Emergency Technical Center of Minatom of Russia. *Concept of nuclear law development in the current conditions in Russia;*
- B. Gordon, Director, FSU SEC NRS (Rostechnadzor). Enhancement of terminology of legal, regulatory and technical acts in the field of the use of atomic energy;
- A. Zrodnikov, Scientific Supervisor, SSC RF IPPE named after A.I. Leipunsky; Yu. Rudnev, CATI of SC Rosatom. *Technology complex of an enterprise as a real estate object;*
- M. Lizikova, Researcher, Institute of the State and Law of RAS. *Prospects of nuclear power development in Russia;*
- D. Lozovsky, Deputy Head of Department for Property and Social Aspects, NTNU MEPHI. *Legal aspects of the state regulation of safety in the uses of atomic energy;*
- Discussion;
- Summing up

16:00 - 18:00	Symposium: «Topical Issues of International Nuclear Law»	Hall 3

Chairperson: M. Lysenko, Director of the International Cooperation Department, SC Rosatom.

- N. Nikiforov, Director General, NP Union of Industrialists and Entrepreneurs of Nuclear Industry. International aspects of technical regulation in Russia's nuclear power;
- V. Kuznetsov, Director, Institute of Innovative Power Generation of RRC Kurchatov Institute, International INPRO Project. Legal and institutional support of nuclear power based on transportable power reactors. Tasking and basic results of Russian studies of 2008-2009;
- V. Shmelev, Head of Laboratory for Nuclear Material and Technology Nonproliferation, RRC Kurchatov Institute. International INPRO Project. Legal and institutional support of nuclear power based on transportable power reactors. Nonproliferation problems;
- A. Molchanov, Head of Underwriting Division, JSC Nuclear Insurance Broker. *Civil liability for nuclear damage: Case of transportable power reactor operations;*
- Yu. Opanasyuk, Chief Expert, Department for Nuclear Material and Technology Nonproliferation, RRC Kurchatov Institute. International INPRO Project. Legal and institutional support of nuclear power based on transportable power reactors. Physical protection;
- V. Makarov, Head of Laboratory of the Institute of Nuclear Reactors at RRC Kurchatov Institute, International INPRO Project. Legal and institutional support of nuclear power based on transportable power reactors. Transportation issues;
- A. Matveev. Some aspects of multilateral cooperation in nuclear area with participation of the international organizations;
- Summing up

10:00 - 18:30	Joint closing session	Hall 3

Chairperson: Tatyana Yelfimova, Deputy Director General, SC Rosatom.

Summaries by Round-table and Symposium chairs.

Co-chairs: A. Torshin, First Deputy Chairman of the Federal Council; K. Zaitsev, Deputy Chairman of the State Duma Energy Committee; M. Lysenko, Director of the International Cooperation Department of SC Rosatom.

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10:00 - 13:30	Round-table session: «Prospects of International Cooperation in	Hall 1
	Nuclear Fuel Cycle»	

Moderator: V. Konstantinov, Vice President, JSC TVEL.

Topic: Natural Uranium and Isotope Enrichment

- V. Korogodin, SC Rosatom. Fuel Division of SC Rosatom: Expansion of international cooperation opportunities;
- A. Boitsov, Deputy Director General, JSC Atomredmetzoloto. *Sustainable development of uranium mining: Challenge of the times;*
- G. Efremov, Commercial Director, JSC IUEC. International Uranium Enrichment Center and LEU Guaranteed Reserve in Angarsk;
- A. Tovstenko, Deputy Head of the Directorate for Strategy, Marketing and Information Policy and Director of World Markets Analysis Department. *Techsnabexport: The global supplier of nuclear materials to the world market;*

Break

Topic: Nuclear Fuel and INF

- V. Konstantinov, Vice President, JSC TVEL. International nuclear fuel cooperation;
- P. Jayaraj, Director of Nuclear Fuel Cycle, Department of Atomic Energy of India. *International Cooperation in manufacture of nuclear fuel components;*
- K. Purohit, Kudankulam NPP. Development of nuclear power in India: solutions;
- Ossi Koskivirta, Vice President, Fortum Generation. *The use of cooperation experience in bidding documents development;*

• A. Khaperskaya, Head of Project Office, SC Rosatom. *Modernization plans for INF management system in Russia;*

Closing. Adoption of the Communiqué.

10:00 - 13:30	Round-table session «Capabilities and Prospects of Controlled	Hall 2
	Nuclear Fusion: Solving Nuclear Power Problems»	

Moderator: Ye. Velikhov, President, RRC Kurchatov Institute.

- Round-table session opening.
- Ye. Velikhov, President, RRC Kurchatov Institute. World current trends of controlled nuclear fusion;
- F. Romanelli, EFDA Leader and JET Leader. The European Fusion program in the perspective of ITER and DEMO;
- O. Filatov, Director, FSUE NIIEFA named after D.V. Yefremov. International thermonuclear experimental reactor project ITER;
- P. Khvostenko, Deputy Director of Institute of Tokamak Physics of RRC Kurchatov Institute. *Concept of a stationary thermonuclear neutron source on the basis of a small-size tokamak for nuclear power problems;*
- V. Cherkovets, Director, FSUE SSC RF TRINITI. Russian-Italian project of experimental tokamak IGNITOR;
- Discussion.

Break

- S. Subbotin, RRC Kurchatov Institute. *Nuclear power problems: Thermonuclear neutron source solution;*
- V. Gudowsky, ISTC, Deputy of CEO (European Union). *European approach to neutron sources for transmutation;*
- S. Garanin, RFNC VNIIEF. Pulse sources of thermonuclear neutrons in hybrid fusion systems;
- V. Chernov, JSC VNIINM. Radiation resistant materials for thermonuclear neutron sources;
- E. Kruglyakov, NPI RAS. Alternative concepts of fixed thermonuclear neutron sources;
- Discussion and summing up.

10:00 - 13:30	Round-table session «Investments in Nuclear Power. Project	Hall 3
	Management. Financial Guarantees»	

Moderator: A. Kovalevskiy, Director, Department for Investment Policy of SC Rosatom.

• N. Solomon, Deputy Director General, SC Rosatom. *Transformation of SC Rosatom corporate structure;*

- K. Komarov, Executive Director, Directorate for Nuclear power Complex of SC Rosatom. *Prospects of interaction with foreign partners;*
- T. Ivanov, First Vice President, JSC Atomstroyexport. Organizational and financial models of NPP construction in foreign markets;
- M. Kozlov, Head of Project Group, JSC INTER RAO UES. Prospects of participation of external investors in Baltic NPP project;
- E. Konkov, Deputy Director General and Director for Economics and Finance, OJSC Concern Rosenergoatom. *Financial and operations results of Concern Rosenergoatom*.

Break

- A. Nikipelov, First Vice President, JSC TVEL. Concerted approaches to investment project management at Fuel Company;
- T. Khachaturov, First Deputy Director General, JSC Atomredmetzoloto. *Investments in uranium mining expansion;*
- V. Kashchenko, Director General, JSC Atomenergomash. Nuclear machine engineering development projects;
- A. Shvetsov, Partner, KPMG. IAS accountancy: Tool to verify nuclear investment attractiveness.
- S. Gorin, Leading Analyst, International Rating Agency Standard & Poor's. Credit rating of JSC Atomenergoprom;
- M. Yermolayev, Director General, CJSC GreenAtom. Shared Services Center: An effectiveness enhancement tool.

14:30 - 18:00	Presentation «Atomic Energy – Information – Safety»	Hall 2

Moderator: R. Arutunyan, Deputy Director, IBRAE RAS

Topics:

- Radiation and other factors affecting health of residents in NPP siting regions,
- Guidelines Public opinion Safety,
- Why superstitions of nuclear survive that long.

Papers:

- R. Arutyunyan, Deputy Director, IBRAE RAS. Comprehensive chemical and radioactive environmental release analysis in the Russian Federal Subjects (Voronezh Region case study);
- V. Kutkov, Ph.D. (phys-math), Leading Researcher, RRC Kurchatov Institute;
- T. Shashina, Ph.D. (med), Leading Researcher, Research Institute of Human Ecology and Environmental Hygiene named after A.N. Sysin of RAS;
- R. Alexakhin, Ph.D. (bio), Professor, Director, All-Russia Institute of Agriculture radiology and Agroecology of RAAS, IAEA Expert (1980-2007);
- N. Tarasova, Ph.D. (chem.), Professor, Corresponding Member of RAS, Director, Institute of Sustainable Development of D. Mendeleev USTR;
- O. Pavlovsky, Ph.D. (tech), Deputy Head of Monitoring and Geoinformation Division, IBRAE RAS, Expert of the UNSCEAR;
- M. Savkin, Ph.D. (tech);
- V. Chernov, Corresponding Member of RAES, Ph.D. (med), Deputy Director, Child Hematology, Oncology and Immunology Institute of the Minsotszdravrazvitie of Russia;
- F. Almerico, General Manager of Intelligent Systems S.r.l. *Mathematical modelling of long-term energy sources mix dynamics.*