



INPRO
International Project on
Innovative Nuclear Reactors
and Fuel Cycles

PROGRAMME

INPRO Dialogue Forum on International Collaboration on Innovations to Support Globally Sustainable Nuclear Energy Systems

I4-TM-47674

IAEA Headquarters, Vienna, Austria, 18–21 November 2014
Vienna International Centre (VIC), M Building, Room M3

Tuesday 18 November	Day 1
08:30-09:20	Installing presentations for Day 1
09:30-09:45	Opening of the meeting Alexander BYCHKOV, Deputy Director General, Head of the Department of Nuclear Energy (IAEA) <i>Opening remarks and welcoming address</i>
09:45-09:55	Objectives and agenda Alexey KAZENNOV (IAEA, INPRO Section)
09:55-10:10	Introductory presentation on the IAEA INPRO Vladimir KUZNETSOV (IAEA, INPRO Section, Acting Section Head)
<i>Plenary Session 1 – Driving forces of collaboration on innovations, Room M3</i> <i>Chairperson: Mr Tomasz Marian JACKOWSKI</i>	
10:15-11:10	Georges VAN GOETHEM (European Commission, EC Senior Science Officer, DG Research and Innovation) <i>Euratom strategy and achievements in sustainable nuclear energy systems with emphasis on the Knowledge Triangle "research – innovation – education"</i>
11:15-11:45	Mikhail CHUDAKOV (WANO Moscow Centre, Director) <i>Post-Fukushima WANO changes</i>
11:50-12:05	James E. LYONS (IAEA, Division of Nuclear Installation Safety, Director) <i>Enhancements, Innovations and International Collaboration in Nuclear Safety</i>
12:05-12:35	Question / answer and discussion session <i>Panelists: Georges VAN GOETHEM, Mikhail CHUDAKOV, James E. LYONS and Vladimir KUZNETSOV</i>
12:35-13:50	Lunch
<i>Plenary Session 1 – Driving forces of collaboration on innovations (cont'd), Room M3</i> <i>Chairperson: Mr Tomasz Marian JACKOWSKI</i>	
13:50-14:10	John Arthur DAY (United Kingdom, Sellafeld Ltd, Head of Knowledge Management and Intellectual Property) <i>Knowledge sharing and collaboration for innovations</i>
14:15-14:30	Muhammad KHALIQ (IAEA, Division of Nuclear Security, Nuclear Security of Materials and Facilities Section, Nuclear Security Officer) <i>Collaboration on Innovation in Nuclear Security for Nuclear Material and Nuclear Facilities</i>
14:35-15:00	Natalya BELENKAYA (Russian Federation, The State Atomic Energy Corporation "Rosatom", Project Leader) <i>ROSATOM Innovations: through international cooperation to future power technology</i>
15:05-15:30	Katie STRANGIS (United States of America, U.S. Department of Energy, Senior Policy Advisor) <i>Development in Export Nuclear Control</i>
15:30-16:00	Question / answer and discussion session <i>Panelists: John Arthur DAY, Muhammad KHALIQ, Katie STRANGIS and Natalya BELENKAYA</i>
16:00-16:30	Coffee break
<i>Plenary Session 2 – Intellectual property management within the context of collaboration on innovations (part 1), Room M3</i> <i>Chairperson: Mr John Arthur DAY</i>	
16:30-16:55	Akiko TAKANO (ITER Organization, Legal Officer) <i>ITER, international collaboration energy project and intellectual property (IP) management</i>
17:00-17:25	Johannes Heinz GODDAR (Germany, BOEHMERT & BOEHMERT, Professor) <i>The patent system as instrument to incentivize research and development and enable fair distribution of R&D results to humanity</i>
17:30-17:55	Natalya BELENKAYA (Russian Federation, The State Atomic Energy Corporation "Rosatom", Project Leader) <i>Rosatom approach to IPR management in collaborative projects on innovations</i>
17:55-18:25	Question / answer and discussion session <i>Panelists: Akiko TAKANO, Johannes Heinz GODDAR and Natalya BELENKAYA</i>
18:30	Reception hosted by the IAEA



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Wednesday 19 November	Day 2
08:20-08:50	Installing presentations for Day 2
<p><i>Plenary Session 3 – Intellectual property management within the context of collaboration on innovations (part 2)</i> Room M3 <i>Chairperson: Ms Natalya BELENKAYA</i></p>	
09:00-09:25	Bernard DENIS (European Commission Joint Research Centre, Head of Technology Transfer Team) <i>IP management in collaborations at the JRC</i>
09:30-09:55	Arunkumar SRIVASTAVA (India, Department of Atomic Energy, Atomic Energy Commission, Secretary) <i>International collaboration: elements of IP agreements</i>
10:00-10:40	Jean-Marie LE GOFF (European Organisation for Nuclear Research CERN, Chairman of HEPTech, the Technology Transfer Network of institutions active in particle, astro-particle and nuclear physics) <i>IP aspects in collaborations; CERN TT case studies</i>
10:40-11:10	Coffee break
11:10-11:35	Alex SMITH (United Kingdom, Sellafield Ltd, Intellectual Property Manager) <i>Intellectual Property considerations in contracts for technical development work</i>
11:40-11:55	Natalia SILKINA (IAEA, Office of Legal Affairs, Legal Officer) <i>Intellectual Property Rights: Legal Framework and Practice of the IAEA</i>
11:55-12:30	Question / answer and discussion session <i>Panelists: Bernard DENIS, Arunkumar SRIVASTAVA, Jean-Marie LE GOFF, Alex SMITH and Natalia SILKINA</i>
12:30-13:45	Lunch
13:45-17:30	Break-out sessions
13:45-17:30	<i>Break-out session 1-1: Driving forces of collaboration on innovations</i> Room MOE10 <i>Facilitators: Mr Juergen KUPITZ and Mr Vladimir KUZNETSOV</i>
13:45-17:30	<i>Break-out session 2-1: Intellectual property management within the context of collaboration on innovations</i> Room MOE05 <i>Facilitators: Mr Johannes Heinz GODDAR and Mr Arunkumar SRIVASTAVA</i>
13:45-17:30	<i>Break-out session 3-1: Collaboration between technology users, technology holders and other organizations on the infrastructure and institutional arrangements necessary for the development and deployment of sustainable NESS</i> Room M3 <i>Facilitators: Mr Alexey KAZENNOV and Mr Matthew Cole VAN SICKLE</i>
13:45-17:30	<i>Break-out session 4-1: How to increase the trust between partners involved in collaboration on innovations to support the development of sustainable NESS</i> Room MOE27 <i>Facilitators: Ms Xiaoping LI and Mr Harold Finley MCFARLANE</i>



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Thursday 20 November	Day 3
08:20-08:50	Installing presentations for Day 3
<p><i>Plenary Session 4 – Collaboration between technology users, technology holders and other organizations on the infrastructure and institutional arrangements necessary for the development and deployment of sustainable NESs</i> Room M3 <i>Chairperson: Mr Taswanda TARYO</i></p>	
09:00-09:25	Adrian RIZEA (Romania, Center of Technology and Engineering for Nuclear Projects, Director) <i>Role of TSO's organizations in Romania</i>
09:30-09:55	Javier DIES (Spain, Technical University of Catalonia (UPC), BarcelonaTech, Professor Chair in Nuclear Engineering) <i>European Master in Innovative Nuclear Engineering - Educating Students for Advanced Nuclear Technology</i>
10:00-10:10	Matthew Cole VAN SICKLE (IAEA, Nuclear Infrastructure Development Section, Nuclear Engineer) <i>Regional Cooperation in the Development of Nuclear Infrastructure</i>
10:15-10:40	Peter Paul DE REGGE (Belgium, Consultant) <i>International Collaboration between Technology Developers, Users, and Universities for Training Programmes related to GEN IV Nuclear Energy Systems</i>
10:45-11:00	John DE GROSOBOIS (IAEA, Nuclear Knowledge Management Section, Section Head) <i>KM in Nuclear R&D and Innovation</i>
11:05-11:15	Edward BRADLEY (IAEA, Research Reactor Section, Section Head) <i>The IAEA designated International Centre based on Research Reactor (ICERR) Scheme</i>
11:15-11:30	Question / answer and discussion session <i>Panelists: Adrian RIZEA, Javier DIES, Peter Paul DE REGGE, John DE GROSOBOIS and Edward BRADLEY</i>
11:30-12:00	Coffee break
12:00-12:25	Taswanda TARYO (Indonesia, National Nuclear Energy Agency (BATAN), Deputy Chairman for Nuclear Energy Technology) <i>Development of Indonesian Experimental Power Reactor Program: An Approach to Innovative R&D, Nuclear Co-generation and Public Acceptance</i>
12:45-14:00	Lunch
<p><i>Plenary Session 4 – Collaboration between technology users, technology holders and other organizations on the infrastructure and institutional arrangements necessary for the development and deployment of sustainable NESs (cont'd)</i> Room M3 <i>Chairperson: Mr Taswanda TARYO</i></p>	
14:00-14:25	Doan Phac LE (Viet Nam, Viet Nam Atomic Energy Agency (VAEA), Deputy Director General) <i>Collaboration on the Research & Development Capacity Building in Viet Nam</i>
14:30-15:00	Nikolay ARKHANGELSKIY (Russian Federation, The State Atomic Energy Corporation "Rosatom", Advisor) <i>ROSATOM approaches for sustainable development of scientific cooperation: MBIR International Research Center</i>
15:05-15:30	Margaret HARDING (United States of America, 4 Factor Consulting, Consultant to U.S. Department of Energy) <i>U.S. Industry perspective on export control and non-proliferation issues</i>
15:30-16:00	Question / answer and discussion session <i>Panelists: Taswanda TARYO, Doan Phac LE, Nikolay ARKHANGELSKIY and Margaret HARDING</i>
16:00-16:30	Coffee break
16:30-18:00	Break-out sessions
16:30-18:00	<i>Break-out session 1-2: Driving forces of collaboration on innovations</i> Room MOE10 <i>Facilitators: Mr Juergen KUPITZ and Mr Vladimir KUZNETSOV</i>



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16:30-18:00	<p><i>Break-out session 2-2: Intellectual property management within the context of collaboration on innovations</i> Room MOE05 Facilitators: Mr Johannes Heinz GODDAR and Mr Arunkumar SRIVASTAVA</p>
16:30-18:00	<p><i>Break-out session 3-2: Collaboration between technology users, technology holders and other organizations on the infrastructure and institutional arrangements necessary for the development and deployment of sustainable NESs</i> Room M3 Facilitators: Mr Alexey KAZENNOV and Mr Masahiro YAGI</p>
16:30-18:00	<p><i>Break-out session 4-2: How to increase the trust between partners involved in collaboration on innovations to support the development of sustainable NESs</i> Room MOE27 Facilitators: Ms Xiaoping LI and Mr Harold Finley MCFARLANE</p>



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Friday 21 November	Day 4
08:20-08:50	Installing presentations for Day 4
<p><i>Plenary Session 5 – How to increase the trust between partners involved in collaboration on innovations to support the development of sustainable NESs</i> Room M3 <i>Chairperson: Ms Xiaoping LI</i></p>	
09:00-09:20	Harold Finley MCFARLANE (United States of America, Idaho National Laboratory, Director of International Programs) <i>Key elements of trust building in nuclear collaboration</i>
09:25-09:50	Xiaoping LI (China, WePower Co., Managing Director) <i>Building Strategic Partnerships for Nuclear Collaboration</i>
09:55-10:20	Jane LECLAIR (United States of America, National Cybersecurity Institute at Excelsior College, Chief Operating Officer) <i>Beyond Organizationally Driven Sustainable Collaboration: Strategic Sustainable Collaboration on Innovation Across Nation States in the Arena of Cyber Security</i>
10:25-10:50	Tomasz Marian JACKOWSKI (Poland, National Centre for Nuclear Research, Coordinator for Nuclear Energy, Head of Nuclear Energy Division) <i>Risk limitation in safety improvement for nuclear technologies through the international collaboration</i>
10:55-11:15	Grigory PONOMARENKO (Russian Federation, OKB “Gidropress”, Principal Specialist) <i>Innovations and safety ensuring in WWERs on the base of collaboration on the national and international levels</i>
11:15-11:45	Question / answer and discussion session <i>Panelists: Harold Finley MCFARLANE, Xiaoping LI, Jane LECLAIR, Tomasz Marian JACKOWSKI and Grigory PONOMARENKO</i>
11:45-12:15	Coffee break
12:15-12:55	Reports from Break-out sessions – four reports 10 min each
12:55-14:15	<ul style="list-style-type: none"> – Final discussion session – Feedback from participants; suggestions for cooperation; and further support expected from the IAEA – Brief concluding remarks by the Chairpersons of panel sessions – Brief concluding remarks from the IAEA and closing of the meeting



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Break-out sessions

Topic 1 – Break-out sessions	
Wednesday 19 November	Day 2
13:45-17:30	<i>Break-out session 1-1: Driving forces of collaboration on innovations Room MOE10 Facilitators: Mr Juergen KUPITZ and Mr Vladimir KUZNETSOV</i>
13:45-14:00	<i>Introductory remarks by the facilitators</i>
14:00-14:15	Mauricio LORCA (Chile, Chilean Commission of Nuclear Energy, Chief of Research and Nuclear Applications Division) <i>Building collaborative mechanisms in R&D and innovations, the Chilean experience</i>
14:15-14:30	Mobashir Ali Shah SYED (Pakistan, Pakistan Atomic Energy Commission, Principal Engineer) <i>Means of enhancing collaboration on SMRs to support sustainable nuclear energy systems</i>
14:30-14:45	Kampanart SILVA (Thailand, Thailand Institute of Nuclear Technology, Nuclear Scientist) <i>Potential and hurdles of the collaboration on NPP R&D in Thailand</i>
14:45-17:30 (breaks as needed)	<p>Question / answer session.</p> <p>Discussion on selected topics.</p> <p><u>Suggested topics:</u></p> <ol style="list-style-type: none"> Achieving an enhanced understanding of the future national, regional and global development scenarios by both technology holders and technology users through collaborative work; Role of the competence of policymakers; Motivation for collaboration (e.g. cost savings, improved public acceptance, stronger support for domestic programmes, enhanced assurance for regulators, beneficial outcomes for all parties); Sharing resources and risks through collaboration, and reducing individual costs and risks; Examples of reducing the R&D costs through the division of tasks and use of experiences of individual partners.
Thursday 20 November	Day 3
16:30-18:00	<i>Break-out session 1-2: Driving forces of collaboration on innovations Room MOE10 Facilitators: Mr Juergen KUPITZ and Mr Vladimir KUZNETSOV</i>
16:30-18:00 (breaks as needed)	<p>Discussion on selected topics.</p> <p><u>Suggested topics:</u></p> <ol style="list-style-type: none"> Potential impact of commercialization and industrial use on the collaboration in innovations; Balance of interest among technology holders and technology users. <p>Preparation of a joint report (a 10-minute PowerPoint presentation) containing key points, major observations and conclusions for the last plenary session on the 21st of November.</p>



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Topic 2 – Break-out sessions	
Wednesday 19 November	Day 2
13:45-17:30	<p><i>Break-out session 2-1: Intellectual property management within the context of collaboration on innovations</i> Room MOE05 Facilitators: Mr Johannes Heinz GODDAR and Mr Arunkumar SRIVASTAVA</p>
13:45-14:00	<i>Introductory remarks by the facilitators</i>
14:00-14:25	Johannes Heinz GODDAR (Germany, BOEHMERT & BOEHMERT, Professor) <i>Employees' inventions and model agreements for Industry-Research collaboration</i>
14:25-17:30 (breaks as needed)	<p>Question / answer session.</p> <p>Discussion on selected topics.</p> <p><u>Suggested topics:</u></p> <ol style="list-style-type: none"> a. Specificity of IP management within the context of collaboration on innovations in the nuclear field; b. How to handle IP background and foreground; c. Prerequisites for successful management of IP, including: <ul style="list-style-type: none"> – Legal and organizational infrastructure; – Adequate funding; – Human capital; – Specialized IP tools (including databases and other software tools); d. Harvesting and incentivization systems; e. Technology transfer contracts and licensing, and extracting value of IP; f. Collaboration vs. competition, and related IP issues; and g. IP infringements: enforcement and prevention.
Thursday 20 November	Day 3
16:30-18:00	<p><i>Break-out session 2-2: Intellectual property management within the context of collaboration on innovations</i> Room MOE05 Facilitators: Mr Johannes Heinz GODDAR and Mr Arunkumar SRIVASTAVA</p>
16:30-18:00 (breaks as needed)	<p>Discussion on selected topics.</p> <p><u>Suggested topics:</u></p> <ol style="list-style-type: none"> a. Challenges, obstacles to overcome, solutions and good practices associated with IP management within the context of collaboration on innovations and technology transfer activities; b. Confidentiality and IP protection versus transparency and safety; c. Impact of the IP aspect on the effectiveness of collaboration; d. Whether IP can be used as a lever to accelerate collaborative work instead of acting as a barrier. <p>Preparation of a joint report (a 10-minute PowerPoint presentation) containing key points, major observations and conclusions for the last plenary session on the 21st of November.</p>



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Topic 3 – Break-out sessions	
Wednesday 19 November	Day 2
13:45-17:30	<p><i>Break-out session 3-1: Collaboration between technology users, technology holders and other organizations on the infrastructure and institutional arrangements necessary for the development and deployment of sustainable NESs</i></p> <p>Room M3 Facilitators: Mr Alexey KAZENNOV and Mr Matthew Cole VAN SICKLE</p>
13:45-14:00	<p><i>Introductory remarks by the facilitators</i></p>
14:00-14:15	<p>Yong YANG (China, China Fast Reactor Research Centre, China Institute of Atomic Energy, Deputy Director of Reactor Core Research Division) <i>Enhance the collaboration in R&D in fast reactor and the Capabilities of CEFR towards Deployment of INES</i></p>
14:15-14:30	<p>Milo KUNESHKA (Albania, National Nuclear Agency, Advisor to the Chairman) <i>Institutional arrangements related to support a sustainable nuclear energy system in Albania</i></p>
14:30-14:45	<p>Vahan SARGSYAN (Armenia, Scientific Research Institute of Energy, Director of Energy Strategy Center) <i>Features and collaboration issues of small country in implementation of innovative NES</i></p>
14:45-15:00	<p>Pavlin GRUDEV (Bulgaria, Institute for Nuclear Research and Nuclear Energy, Head of Laboratory ‘Nuclear Energy and Nuclear Safety’) <i>The role of the national TSO of a technology user country in achieving success in collaboration</i></p>
15:00-15:15	<p>ISMAL (Indonesia, Nuclear Energy Regulatory Agency (BAPETEN), Head of Nuclear Power Reactor Safety Assessment Division) <i>Indonesian proposal on mutually-beneficial collaboration for SMR regulatory infrastructures improvement</i></p>
15:15-15:30	<p>RIDWAN (Indonesia, National Nuclear Energy Agency, Director of Center for Nuclear Fuel Technology) <i>Enhancing collaboration on nuclear fuel technologies: Indonesia’s experience</i></p>
15:30-17:30 (breaks as needed)	<p>Question / answer session.</p> <p>Discussion on selected topics.</p> <p><u>Suggested topics:</u></p> <ol style="list-style-type: none"> a. Expectations of technology users with regard to the collaboration; b. Expectations of technology holders with regard to the collaboration; c. Measures to encourage technology holders to provide favourable conditions for technology users to participate in innovative research activities; d. Examples of the establishment of coalitions and partnerships between the industry, business, R&D organizations and universities in support of innovations in the nuclear field; e. Practices of collaboration helping to understand sustainability and sustainable NESs, innovative designs, timeframe of their possible availability, especially at the level of decision-makers; f. Positive examples of collaboration between technology holders and technology users in first-of-a-kind nuclear facility projects.



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Thursday 20 November	Day 3
16:30-18:00	<p><i>Break-out session 3-2: Collaboration between technology users, technology holders and other organizations on the infrastructure and institutional arrangements necessary for the development and deployment of sustainable NESs</i></p> <p><i>Room M3</i></p> <p><i>Facilitators: Mr Alexey KAZENNOV and Mr Matthew Cole VAN SICKLE</i></p>
16:30-16:45	<p>Slobodan JOVANOVIC (Montenegro, University of Montenegro, Department of Physics, Professor, Head of University Centre for Nuclear Competence and Knowledge Management)</p> <p><i>Joint Regional Approach – Way Forward for Small Countries Towards Nuclear Power Programmes</i></p>
16:45-17:00	<p>Andrey GAGARINSKIY (Russian Federation, National Research Centre “Kurchatov Institute”, Scientific Advisor)</p> <p><i>National Research Centre and International Collaboration to Support Globally Sustainable Energy Systems: Russian Experience</i></p>
17:00-17:15	<p>Tuan Khai NGUYEN (Viet Nam, Institute for Nuclear Science and Technology (INST), Viet Nam Atomic Energy Institute (VINATOM), Deputy Director (INST), Director of Nuclear Energy Center)</p> <p><i>Challenges for National Nuclear Power Programme of Viet Nam</i></p>
17:15-18:00 (breaks as needed)	<p>Question / answer session.</p> <p>Discussion on selected topics.</p> <p><u>Suggested topics:</u></p> <ol style="list-style-type: none"> The role of the national TSO of a technology user country in achieving success in collaboration on innovations; Innovative solutions and practices in regulatory activities in support of achieving sustainability of an NES; Practical measures that can be employed by the technology supplier and user country, (including the country’s regulatory body) for the harmonization of licensing; Potential impact of export control and non-proliferation issues on collaboration and particularly on the transfer of technology. <p>Preparation of a joint report (a 10-minute PowerPoint presentation) containing key points, major observations and conclusions for the last plenary session on the 21st of November.</p>



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Topic 4 – Break-out sessions	
Wednesday 19 November	Day 2
13:45-17:30	<i>Break-out session 4-1: How to increase the trust between partners involved in collaboration on innovations to support the development of sustainable NESS</i> Room MOE27 Facilitators: Ms Xiaoping LI and Mr Harold Finley MCFARLANE
13:45-14:00	<i>Introductory remarks by the facilitators</i>
14:00-14:15	Margalita ARABIDZE (Georgia, Ministry of Energy of Georgia, Head of Energy Efficiency and Renewable Energy Division) <i>National Energy Plan in Georgia</i>
14:15-14:30	Mohd Zamzam JAAFAR (Malaysia, Malaysia Nuclear Power Corporation, Chief Executive Officer) <i>Nuclear infrastructure and institutional arrangements for the development and deployment of sustainable nuclear energy systems – experience of MNPC, as a dedicated NEPIO</i>
14:30-17:30 (breaks as needed)	Question / answer session. Discussion on selected topics. Suggested topics: a. Achievement of a ‘win-win’ situation between the parties involved, and mutual benefits in partnership; b. Potential tension between organizational self-interest and a collective interest to achieve collaboration goals and maintain accountability to collaborative partners and their stakeholders; c. Impact of commercial interests; d. Potential impact of restrictions within collaborations (e.g. concerning Intellectual Property) on the mutual trust.
Thursday 20 November	Day 3
16:30-18:00	<i>Break-out session 4-2: How to increase the trust between partners involved in collaboration on innovations to support the development of sustainable NESS</i> Room MOE27 Facilitators: Ms Xiaoping LI and Mr Harold Finley MCFARLANE
16:30-18:00 (breaks as needed)	Discussion on selected topics. Suggested topics: a. Development of modern methods specific to the public–private partnership in order to increase financial support for the application of new technologies; b. Reasons and willingness to bear disproportional costs (e.g. initial investments); c. Measures to increase mutual trust within various collaborative projects in the nuclear field. Preparation of a joint report (a 10-minute PowerPoint presentation) containing key points, major observations and conclusions for the last plenary session on the 21st of November.