



Join us on December 19, 2018
for the next GEN IV webinar
**THE BN-600 AND BN-800 OPERATING
EXPERIENCE**

Russia occupies a leading position in the field of sodium-cooled fast reactors (SFR) in the world. The following SFRs have been constructed in the USSR and in the Russian Federation: BR-5/BR-10, BOR-60, BN-350, BN-600, BN-800. Total operation experience of the USSR/Russian SFRs exceeds 160 reactor-years, i.e. more than one-third of the total world SFR operational experience. The test reactor BOR-60 and industrial NPPs with the BN-600 and BN-800 reactors are in operation now. Currently the BN-1200 reactor design of a commercial SFR of the 4th generation is under development in Russia and a new MBIR multifunctional research fast reactor is under construction. A 38-year successful operation of the BN-600 reactor has demonstrated a feasibility and maturity of the SFR technology. The main purpose of the BN-800 reactor is to demonstrate closing the nuclear fuel cycle. The BN-1200 is aimed to achieve competitiveness with LWRs and to provide a high level of safety based mainly on passive safety systems and inherent SFR safety features. The main characteristics of the BN-600 and BN-800 reactors are described, and operational parameters achieved (burn-up, load factor, etc.) are discussed. The main stages of the BN-600 and BN-800 operations are indicated, and the operational experience gained is analyzed, including events with sodium leaks outside and leaks in steam generators. The presentation summarizes main lessons learned from the BN-600 and BN-800 operational experience and relevant recommendations for future SFRs.

Free webcast

December 19, 2018 at 8:30 am EST (UTC-5)



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Who should attend: policy makers, managers, regulators, students, general public

Meet the Presenter...

Mr. Ilya Pakhomov is the Head of Laboratory in the State Scientific Center of the Russian Federation - Institute for Physics and Power Engineering named after A.I. Leypunsky (IPPE). Since 2006, he has been charged with developing advanced sodium fast reactors as an engineer, junior researcher and head of laboratory. In 2014, he become a member of the working group on scientific and technical support of the BN-1200 project in IPPE. Currently, he is head of laboratory - management of experiments and engineering safety of fast sodium reactors. He is responsible for research of operability elements of the core, safety issues of sodium fires and safety during interloop leaks in the sodium-water steam generators. He is also involved in the formation of an R&D plan for the Fast Sodium Reactors.



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Upcoming Webinars

January 30, 2019	Scientific and Technical Problems of Closed Nuclear Fuel Cycle in Two-Component Nuclear Energetics, Dr. Alexander Orlov
February 19, 2019	Safety of Gen IV Reactors, Dr. Luca Ammirabile
March 20, 2019	The ALLEGRO Experimental Gas Cooled Fast Reactor Project, Dr. Ladislav Belovsky

For more information, please contact: Patricia Paviet at patricia.paviet@patricia.paviet@pnnl.gov or visit the GIF website at www.gen-4.org