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for the next GEN IV webinar

## Lead Containing Mainly Isotope Pb-208: New Reflector for Improving Safety of Fast Nuclear Reactors

This webinar considers improvement of fast reactor safety through slowing-down power runaway. The idea is surrounding the core by the neutron reflector made of lead-208, a material of heavy atomic weight and extremely low neutron absorption. The power runaways can be slowed down because of a long way for leakage neutrons to come back from distant layers of neutron reflector to the core. It is demonstrated that mean prompt neutron lifetime can be elongated roughly by three orders of magnitude with appropriate slowing-down the reactor power runaway.

*Free webcast*

August 29, 2019 at 8:30 am EST (UTC-4)



Register NOW at:  
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**Who should attend:** policy makers, managers, regulators, students, general public

### Meet the Presenter...

**Dr. Evgeny Kulikov** earned his PhD at the National Research Nuclear University MEPhI in Moscow in 2010 and is currently the associate professor at the Institute of Nuclear Physics and Engineering. His areas of professional interests include improving fuel burn-up, nuclear fuel cycle, non-proliferation, and fast reactor safety. Currently, his scientific research is supported by the Russian Science Foundation. He lectures on theoretical aspects of nuclear reactors and conducts laboratory works on experimental reactor physics. He is serving on the Gen IV International Forum Education and Training Task Force.



*The Generation IV International Forum invites you to attend web-based lectures on the next generation of nuclear energy systems and other cross-cutting subjects. Join internationally recognized subject matter experts and leading scientists in the nuclear energy arena for these short presentations.*

### Upcoming Webinars

- 25 September 2019 Gen IV coolants quality control, Dr. Christian Latge
- 23 October 2019 Passive Decay Heat Removal System, Dr. Mitchel Farmer
- 13 November 2019 Czech experimental program on MSR technology development, Dr. Jan Uhlik