GEN IV International Forum SM

EDUCATION AND TRAINING TASK FORCE

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for the next GEN IV webinar

PHENIX AND SUPERPHENIX FEEDBACK EXPERIENCE

France energy situation is specific : no fossil energy available (oil, coal, gas, etc..), a large fleet of PWR in operation providing about 80% of electricity , and a successful reprocessing activity providing each year about 10 tons of plutonium. In this situation, sodium fast breeder reactors would be very useful for the country, and have been developed with the Rapsodie, Phenix and Superphenix reactors. The feedback experience of these reactors has been analyzed and collected in two books “Phenix: the feedback experience” / EDP sciences 2012, and “Superphenix: Technical and Scientific achievements” / Springer 2016. This thematic analysis was performed on materials, fuel, neutronic, thermal hydraulic, components, water sodium reaction, sodium leaks, safety, and more generally on all the specific technical matters related to this type of reactor. The presentation gives, for each theme cited above, the main results obtained and the main conclusions or recommendations for the future of sodium fast breeder reactors.

Free webcast

Wednesday November 29, 2017 at 8:30 am EST (UTC-5)

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

Meet the Presenter...

Joël Guidez began his career in the field of sodium-cooled fast reactors, after graduating from the Ecole Centrale de Paris in 1973. He worked at Cadarache for eight years on the design, dimensioning and testing of sodium components for Superphénix. He also followed the initial results, from the Phénix sodium-cooled fast reactor start-up in 1974. Then he joined Phénix where, for five years, he was in charge of measurements and tests on the power plant. In 1987, he returned to Cadarache to lead a thermo-hydraulics laboratory, where many tests were performed for Phénix, Superphénix and the European Fast Reactor (EFR) project. After a period of apparent unfaithfulness to fast reactors, during which he successfully managed the OSIRIS research reactor located in Saclay, and the European Commission’s reactor, HFR located in the Netherlands, he returned to Phénix in 2002, where he managed the reactor until 2008 during his final operating phase. Since 2011, he is considered as international expert in CEA and wrote two books: “Phenix feedback experience” Editor EDP Sciences and “Superphenix. Technical and scientific achievements” editor Springer.

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	
December 14, 2017	The Sustainability: a relevant Framework for addressing GEN IV Nuclear Fuel Cycles, Dr. Christophe Poinssot
January 24, 2018	Design, Safety Features and Progress of the HTR-PM, Prof. Yujie Dong
February 21, 2018	GEN IV Reactor´s Material and their Challenges, Dr. Stu Maloy

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

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