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# VERY HIGH TEMPERATURE REACTOR SYSTEMS

Among the six Generation IV concepts eventually selected for international cooperative development, the Very High Temperature Reactor (VHTR) was seen as an early favorite among many of the members. Indeed, among the seven original members of the VHTR System Arrangement (SA), three had already operated or tested high temperature gas-cooled reactors. The accession of the People's Republic of China to the VHTR SA in 2008 brought that number to five. This presentation will describe how the continued cooperative development of the VHTR concept as a Generation IV system will deliver on nuclear energy's promises of sustainable, economic, safe, reliable and proliferation resistant power and energy supply.

## Free webcast

Wednesday January 25, 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...

**Carl Sink** has been working for the U.S. Department of Energy (DOE) for 24 years in various roles. Currently a Program Manager for Advanced Reactor Deployment within the Office of Nuclear Energy, he is responsible for coordinating cooperative research, development and demonstration projects conducted by DOE national laboratories and U.S. nuclear industry partners. Since 2004 he has been closely associated with the Next Generation Nuclear Plant Project, the DOE initiative to develop and demonstrate a high temperature gas-cooled reactor (HTGR). From 2006 through 2009 he was the program manager for the Nuclear Hydrogen Initiative, coordinating DOE efforts to develop high temperature water-splitting technologies to take advantage of HTGR outlet temperatures. Within GIF, Mr. Sink has served on the VHTR System Steering Committee since 2008, and currently chairs that group. He holds a Masters Degree in Engineering Management from the Catholic University of America, and is a graduate of the United States Naval Academy. Before joining the DOE, Mr. Sink spent nine years as a qualified Nuclear Engineering Officer in the United States Navy, with reactor operations assignments in a nuclear powered cruiser and a nuclear powered aircraft carrier.



*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

February 22, 2017	Gas Cooled Fast Reactor, Dr. Alfredo Vasile
March 28, 2017	Supercritical Water Reactors, Dr. Laurence Leung
April 25, 2017	Molten Salt Reactors, Dr. Elsa Merle



For more information, please contact: Patricia Paviet at [patricia.paviet@nuclear.energy.gov](mailto:patricia.paviet@nuclear.energy.gov) or visit the GIF website at [www.gen-4.org](http://www.gen-4.org)

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