



Heat Storage for Gen IV Reactors for Variable Electricity from Base-Load Reactors

Changing Markets, Technology, Nuclear-Renewable Integration and Synergisms with Solar Thermal Power Systems

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Hans Gougar, Ph.D., is a nuclear engineer who has worked at the Idaho National Laboratory since 1998 where he began his nuclear career performing safety analyses for the Advanced Test Reactor before branching into other unconventional nuclear power systems. For 20 years he has developed methods for high temperature gas-cooled reactors and served as the Department of Energy's National Technical Director for their Gas-Cooled Reactor R&D Campaign from July 2016 to Jun 2019. At INL he served as the Director for both the Advanced Reactor Technologies program and the Nuclear Systems Design and Analysis Division until June 2019. He has served as US representative to the Generation IV International Forum Experts Group and VHTR System Steering Committee. In 2008, he took leave from the INL to work as a consultant for the Pebble Bed Modular Reactor company in South Africa. He teaches part-time as an adjunct professor of Nuclear Engineering at Idaho State University. In August of 2019, he leaves the INL to serve as Manager of Microreactor Product Engineering for X-Energy.



Dr. Gougar earned his Bachelor's Degree in Science Education from the University of Wisconsin in 1985. He taught physics and other science courses at various secondary schools in the U.S. and in England before commencing graduate studies at Penn State in 1994. He earned a PhD in Nuclear Engineering in 2004 while working at the INL. Gougar lives in Idaho Falls with his wife, Mary Lou, who is also a former science teacher and an assistant professor of nuclear engineering at Idaho State University.