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[Innsbrook Technical Center](#) - Richmond, VA

"Advancing the Closed Fuel Cycle Concept"

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This presentation provides an overview of two technologies developed during the ten-year Advanced Liquid Metal Reactor Program -- PRISM and pyroprocessing -- and how they can be applied to the Global Nuclear Energy Partnership. Commercially, GE Nuclear is involved with nuclear power plant construction, servicing the existing fleet and producing nuclear fuel. GE has submitted to the DOE an integrated, technology-ready approach to provide the infrastructure to demonstrate the policy goals of GNEP. The presentation will also address the Global Nuclear Energy Partnership goals in closing the fuel cycle and enhancing proliferation resistance.

Eric Loewen is Chief Consulting Engineer for Advanced Plants Technology for General Electric Nuclear business. He works out of GE's Nuclear headquarters located in Wilmington North Carolina.

Eric began his technical career graduating from Western State College in Gunnison, CO, with a Bachelors degree in Math and Chemistry, then served six years in the Nuclear Navy. Eric left the Navy to pursue a higher degree in Nuclear Engineering at the University of Wisconsin.

After attaining his M.S. in Nuclear Engineering in 1992, Eric joined Molten Metal Technology, a high-tech waste processing firm, spear-heading and developing their nuclear applications in waste disposal as the Director of Research.

In 1997 Eric returned to Wisconsin to attain his Ph.D in Engineering Physics, he joined the Idaho National Laboratory to work on development of a lead-bismuth cooled reactor and the proliferation-resistant fuel using thoria-urania as part of the international Generation IV nuclear power program. He also supported the President's Climate Change Technology Program.

In 2005 Dr. Loewen was selected as the American Nuclear Society's Congressional Fellow. He spent the year in the office of Senator Chuck Hagel (R-NE) coordinating the Senator's successful efforts to include in the Energy Act of 2005 America's first legislation addressing global climate change.

Currently he serves on the board of directors for the American Nuclear Society.