

## Biography

Dr. Si Y. Lee earned his doctoral degree in Nuclear Engineering, at University of California, Berkeley, 1989 and his master of science degree in Nuclear Engineering at Massachusetts Institute of Technology, 1984.

In 1989, Dr. Lee joined Westinghouse Savannah River Company. He has a range of technical experiences within the Department of Energy complex, including accident modeling in nuclear power plant, reactor core modeling and analysis, nuclear criticality evaluation, and APT (Accelerator Production of Tritium) safety analysis. Over the last ten years, he has consistently developed a variety of state-of-the-art computational models for High-Level Waste (HLW) tank operations and many advanced heat/mass transfer models for interim Spent Nuclear Fuel (SNF) storage canister, alternative SNF repository designs, and CST ion exchange columns to provide key guidelines for operational and design issues. He has recently developed computational models for erosion analysis of HLW processing system components and the DWPF SME/MFT vessels using Computational Fluid Dynamics (CFD) methods in a timely and cost-effective way.

He is currently member of the ANS and the ASME. His work has been published in Nuclear Science and Engineering, Nuclear Technology, ASME journals of Heat Transfer and Fluids Engineering, AIChE Symposium Series, and Proceedings of various ANS and ASME Topical Meetings, as well as in numerous internal reports. He received the ASME Best Research Paper Award in 1992 ASME Winter Annual Meeting.