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For Immediate Release

SRNL Engineer Named Fellow of ASME

AIKEN, S.C. (July 24, 2012) – Mark R. Duignan, a fellow engineer with the U.S. Department of Energy's Savannah River National Laboratory, was elected as a Fellow of the American Society of Mechanical Engineers (ASME). Founded in 1880, ASME promotes the art, science and practice of mechanical and multi-disciplinary engineering and allied sciences to diverse communities throughout the world. The grade of Fellow recognizes outstanding engineering achievement; the distinction has only been granted to 3,250 of ASME's 102,000 members.

Dr. Duignan is a mechanical engineer with 28 years of experience in experimental heat transfer and fluid flow, aerosol testing, small column ion exchange testing, and pilot plant project development, including design, fabrication, instrumentation, calibration and procedure development. He is recognized by DOE's research community for his contributions in the field of fluid flow and thermal analysis. Dr. Duignan's contributions to SRNL's work on behalf of the Hanford Site Waste Treatment and Immobilization Plant, which separates high level waste from low level waste, resulted in benchmark data that allows more accurate planning.

Dr. Duignan serves as the chairman of the ASME Fluids Engineering Division, Multiphase Flow Technical Committee and has chaired numerous symposia and forums on multiphase flow at ASME annual meetings. In January 2011 he was elected to a three-year term as associate editor at the ASME's *Journal of Fluids Engineering*.



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Dr. Duignan started his career at the Nuclear Engineering Department of Brookhaven National Laboratory as a post-doctorate engineer after receiving his doctorate from the State University of New York at Stony Brook. His two-phase flow research led to completing fundamental experimental studies that produced data incorporated into safety analysis computer codes that are still in use today to predict flow regimes and heat transfer under accident conditions.

Dr. Duignan has been at the Savannah River Site since 1989 and has received several President's Award and Laboratory Director's Awards. In addition to his work, he serves the community during the annual National Engineering Week by doing Teach-Ins to interest students in the fields of science and engineering

SRNL is DOE's applied research and development national laboratory located at the Savannah River Site. SRNL puts science to work to support DOE and the nation in the areas of environmental stewardship, national security, and clean energy. The management and operating contractor for SRS and SRNL is Savannah River Nuclear Solutions, LLC, a Fluor Partnership comprised of Fluor, Newport News Nuclear and Honeywell. .

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