

George F. Vandegrift

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Professional Experience

- **Present.** Argonne National Laboratory Distinguished Fellow.

Research Interests

- Separation processes for radioisotope production, radioactive waste treatment, and industrial applications.
- Development of processes for treating spent nuclear fuel in support of the Global Nuclear Energy Partnership.
- Development of technology to convert Mo-99 production from high-enriched uranium to low-enriched uranium as part of the Global Threat Reduction Initiative.

Education

- Ph.D., Inorganic Chemistry, Iowa State University, 1972.
- B.S., Chemistry, Lowell Technological Institute, 1967.

Awards

- Argonne Distinguished Performance Award (2006)
- Glenn T. Seaborg Award (2001)

Selected Publications

- G. F. Vandegrift, C. Conner, G. L. Hofman, R. A. Leonard, A. Mutalib, J. Sedlet, D. E. Walker, T. C. Wiencek, and J. L. Snelgrove, "Modification of Targets and Processes for Conversion of Mo-99 Production from High-to-Low-Enriched Uranium," *Ind. Eng. Chem. Res.* 39(9): 3140-45 (2000)
- R. A. Leonard, D. G. Wygmans, M. J. McElwee, M. O. Wasserman, and G. F. Vandegrift, "The Centrifugal Contactor as a Concentrator in Solvent Extraction Processes," *Sep. Sci. Technol.*; 28(1-3): 177-200 (1993)
- S. E. Betts, S. Landsberger, D. B. Chamberlain, and G. F. Vandegrift, "Determination of Decontamination Factors of Radioactive Liquid Waste Streams Using Neutron Activation Analysis," *Radioact. Waste Manage. Nucl. Fuel Cycle*; 20: 49-59 (1995)

- R. A. Leonard, S. B. Aase, H. A. Arafat, C. Conner, D. B. Chamberlain, J. R. Falkenberg, M. C. Regalbutto, and G. F. Vandegrift, "Experimental Verification of Caustic-Side Solvent Extraction for Removal of Cesium from Tank Waste," *Solvent Extr. Ion Exch.*; 21(4): 505-526 (2003)
- B. A. Buchholz, L. Nunez, and G. F. Vandegrift, "Radiolysis and Hydrolysis of Magnetically Assisted Chemical Separation Particles," *Sep. Sci. Technol.*; 31(14): 1933-52 (1996)