



## Alice M. Murray, PhD

*Acting Associate Laboratory Director, Science and Technology  
Deputy Associate Laboratory Director, Science and Technology  
Savannah River National Laboratory  
Savannah River Nuclear Solutions, LLC*

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### EDUCATION

*Mount Holyoke College  
Bachelor of Arts, Chemistry*

*University of Arizona  
PhD, Physical Chemistry*

### EXPERIENCE

Alice M. Murray is Acting Associate Laboratory Director for Science and Technology at the Savannah River National Laboratory. Dr. Murray has been engaged as a researcher, manager, and technical consultant for 28 years in the area of research and development for nuclear materials processes at the Savannah River National Laboratory and the Rocky Flats Plant in Colorado. She currently serves as the Process Engineer for the Mobile Plutonium Facility and as the Savannah River Site representative to the Department of Homeland Security's Plutonium Experts Panel.

Dr. Murray has a broad knowledge in pyrochemical and aqueous plutonium recovery and purification. At the Rocky Flats Plant she was primarily involved with molten salt processes to remove americium from aged plutonium. She also was involved in other molten salt processing including direct oxide reduction and electrorefining. At the Savannah River National Laboratory she began working on aqueous processing of plutonium. As manager of the Actinide Technology Section, Dr. Murray oversaw the development and deployment of several flowsheets for the dissolution of plutonium oxide materials as well as anion exchange process development to purify plutonium and neptunium solutions with subsequent conversion to oxalate and oxide.

She is a member of the American Chemical Society (ACS); Treasurer of the ACS Division of Nuclear Chemistry and Technology; representative to the Actinide Separations Conference Board; SRNL representative on Advisory Board for the Nuclear Environmental Engineering and Science Program at Clemson University, and serves on the Advisory Board for the Environmental Engineering and Earth Sciences Department at Clemson University.