

# Meet the Presenter...

*Dr. Brian Powell*

Dr. Brian A. Powell is an Associate Professor in the Department of Environmental Engineering and Earth Sciences at Clemson University and holds the Fjeld Professorship in Nuclear Environmental Engineering and Science. His research focuses on understanding and prediction of the physical, chemical, and biological processes which govern the mobility of radionuclides in natural and engineered systems. He previously held postdoctoral appointments at the Lawrence Livermore National Laboratory and the Lawrence Berkeley National Laboratory. Dr. Powell earned a B.S. in Chemistry from the University of Montevallo and M.S. and Ph.D. in Environmental Engineering and Science from Clemson University. Dr. Powell is the winner of the 2014 South Carolina Governor's Young Researcher Award for Excellence in Scientific Research and the 2011 Clemson University Sigma Xi Young Investigator of the Year. He also serves on the Radiation Safety Committee of the USEPA Scientific Advisory Board and is a member of the National Council on Radiation Protection, Program Activity Committee 5: Environmental Radiation and Radioactive Waste Issues. Dr. Powell has published over 50 refereed journal publications, 16 research reports, and made over 100 technical presentations on these topical areas. He has conducted sponsored research in a wide range of projects dealing with topics of nuclear forensics, evaluation of nanoparticle behavior, sorption and environmental transport of plutonium, development of radiation detection and radiation detection laboratory courses, iodine, radium, strontium geochemistry in wetland and subsurface sediments, radionuclide geochemistry of saltstone and solid waste performance assessments at the Savannah River Site, measurement of thermodynamic parameters supporting advanced fuel cycle chemistry, and related topics. These research projects have received over \$13.9M in funding from the National Science Foundation, the Department of Energy, the Nuclear Regulatory Commission, the Department of Homeland Security, the National Nuclear Security Agency, and Savannah River Nuclear Services (through the South Carolina Universities Education and Research Foundation). The knowledge gained from this work can be used to evaluate risk posed by subsurface contamination, to design remediation strategies for contaminated sites, and to facilitate the use of safe disposal practices.



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