



**Charles R. Bryan**

PSAM12 Speaker Bio

## **Understanding the Environment on the Surface of Spent Nuclear Fuel Interim Storage Containers**

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**Short Statement:** Dr. Bryan is the first author on the presented paper.

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### **BIOGRAPHY**

Dr. Bryan earned his Bachelor's degree in Geology from Texas A&M University and obtained his M.S. and Ph.D. in Geochemistry at the University of New Mexico. He has been employed at Sandia for 18 years and is currently a Principal Member of the Technical Staff. He has expertise in thermodynamic modeling of aqueous systems, including concentrated brines formed by evaporation and deliquescence; geochemical modeling and experimental investigation of surface complexation and contaminant transport phenomena; and experimental characterization of geomaterials. He is currently researching the environment that may form on the surface of spent nuclear fuel canisters by deliquescence of salts in dust. Other research interests include repository science for the back end of the nuclear fuel cycle and fluid transport in shale-oil and shale-gas reservoirs.