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Dr. Edwin R. Fuller, Jr. is a Guest Scientist in the Ceramics Division of the National Institute of Standards and Technology (NIST), Gaithersburg, Maryland. He received a B.S. degree in physics from the University of North Carolina at Chapel Hill, and M.S. and Ph.D. degrees in physics from the University of Illinois at Champaign-Urbana. He joined NIST (then the National Bureau of Standards) as a National-Research-Council Postdoctoral Research Associate, and retired in December 2008. His research interests include thermal ablation efficacy of optically-active nanoparticles, mechanical metrology of small-scale structures, and microstructure-based computer simulations of physical properties and behavior for heterogeneous, stochastic microstructures. He is co-developer of the NIST Object Oriented Finite Element (OOF) software for physical property simulations from material microstructures.

Dr. Fuller is currently President-Elect of The American Ceramic Society (ACerS). He has served on the Board of Directors of ACerS, and as Chair of the Basic Science Division and the Baltimore-Washington Section. A Fellow of ACerS, he has co-organized more than twenty technical symposia, co-edited five conference proceedings, and published more than 150 technical papers. He has received the U.S. Department of Commerce Silver Medal, the ACerS Ross Coffin Purdy Award, the ACerS Robert B. Sosman Award, the Alexander von Humboldt Research Award for Senior U.S. Scientists, and the NIST Jacob Rabinow Applied Research Award. As a co-developer of OOF, he was co-recipient of one of Industry Week's 1999 Technologies of the Year awards for "... one of the 25 technologies that can make a difference in the global economy."