

Speaker Profile



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Donald R. Baer,
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Dr. Baer is in the Interface Chemistry and Engineering (IC&E) group in the Chemical Sciences Directorate, Fundamental Sciences Division PNNL. He also serves as Co-Director of the PNNL/University of Washington Joint Institute for Nanoscience and Deputy Manager of the Laboratory Nanoscience and Nanotechnology Initiative. He has a Ph. D. in Physics from Cornell University and was part of a team responsible for developing the capabilities in the Interfacial and Nanoscale Sciences Facility of the Environmental Molecular Sciences Laboratory (EMSL), a user facility built at PNNL by the U.S. Department of Energy. He is the PNNL coordinator of Intensive courses on Nanoscience and Nanotechnology that involve PNNL, the University of Washington and Washington State University.

Since joining PNNL in 1976, Dr. Baer has specialized in the use of surface sensitive techniques to study surface and interphase reactions and material surface chemistry. He specializes in adapting established and new surface sensitive methods to unusual problems and has more than 180 publications.

Part of his research focus has been the understanding of the properties of oxide and mineral surfaces and interfaces. Dr. Baer and his technical group are using surface sensitive analysis methods to determine surface structure and chemistry at vacuum-solid and solution-solid interfaces of oxide and mineral surfaces and nanostructures.

Dr. Baer's other activities include serving as Adjunct Professor of Physics at Washington State University, Adjunct Professor of Chemistry at the University of Washington and Associate Editor for Surface Science Spectra. He is a member of the American Vacuum Society (AVS Fellow and past chair of Applied Surface Science Division), the American Physical Society, the Electrochemical Society, Chair of ASTM E42 Committee on Surface Analysis and serves as secretary of ISO TC 201 on Surface Chemistry SC 1.

D. Baer received the PNNL Directors Award for Excellence and a DOE Division of Materials Sciences Outstanding Scientific Accomplishment Award in 1992, the 2000 PNNL Fitzner-Eberhardt Award for contributions to science education and a 2001 Federal Laboratory Consortium Award for technology transfer. From 1984 to 1985 Dr. Baer was a Visiting Research Fellow in the Department of Materials Science and Engineering at the University of Surrey, Guildford, England.

