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Extensive research experience in corrosion and degradation of properties of materials in high-temperature, aggressive environments, including gases, molten salts, and liquid metals, in the mechanical, physical, and chemical behaviors of protective oxide layers that form under such conditions, and in materials development of high-temperature alloys, ceramics, and ceramic composites for applications in fossil energy systems, gas turbines, fusion reactors, and energy-intensive industries

Currently, Deputy Director of ORNL's Materials Sciences and Technology Division, whose approximately 300 members conduct or support materials R&D ranging from very fundamental to the engineering/application level. Also serves as manager of the Fossil Energy Materials program. Presently, directly contributes to research projects on Ni-based alloys for use in supercritical steam, prediction of oxide spallation from steels exposed to high-temperature steam, and oxidation of SiC.

**Education/Training:**

- Ph.D., Metallurgy, University of Illinois, Urbana, IL, 1978 .
- B.S., Physics, Manhattan College, Bronx, NY, 1973.

**Professional Experience:**

- 2009-present - Deputy Director, Materials Science and Technology Division.
- 2010-present - Program Manager, [Fossil Energy Materials](#)-funded work at ORNL.
- 2006-2009 - Program Manager (Acting), [Office of Basic Energy Sciences, Division of Materials Sciences and Engineering](#)-funded work at ORNL.
- 1999-2007 - Group Leader, [Corrosion Science and Technology](#), Metals and Ceramics Division/Materials Science and Technology Division.
- 1978-2009 - Associate Staff Member, Staff Member, Senior Staff Member, and Distinguished Staff Member, Metals and Ceramics Division/Materials Science and Technology Division.