

**Thomas R. Watkins, Ph.D.**  
**Group Leader & Senior Research Staff**  
**Neutron & X-Ray Scattering Group**  
**Materials Science and Technology Division**  
**Oak Ridge National Laboratory**  
**Bldg. 4515, Rm. 135, MS-6064**  
**P.O. Box 2008**  
**Oak Ridge, TN 37831-6064 USA**

**865.387.6472**

**865.574.4913 (FAX)**

**[watkinstr@ornl.gov](mailto:watkinstr@ornl.gov)**

**Broad Fields of Endeavor:**

- X-ray diffraction, residual stress and mechanical properties of materials.

**Scope of Research:**

- Understanding residual stresses in ceramics, coatings and metals.
- Measurement of residual stresses at high temperatures using x-ray diffraction.
- Understanding the relationship between the macroscopic and crystallographic responses of materials under mechanical load.

**Education:**

- Ph.D. (Ceramic Science) from The Pennsylvania State University, 1992
- MS (Ceramic Science) from The Pennsylvania State University, 1988
- BS (Ceramic Engineering) from Alfred University, 1985

**Professional Societies:**

- American Ceramic Society
- International Centre for Diffraction Data