



Long-standing Canadian Excellence

Canada's reputation for world-class research in neutron scattering can be traced back to the pioneering work performed at Chalk River by Bertram Brockhouse who shared the 1994 Nobel Prize in Physics with Clifford Shull of the U.S.A.

Canadian, U.S. and U.K. aerospace corporations have made good use of neutron beam technology at Chalk River to test jet engine components and landing gear at the design stage.

Delivering Tangible Benefits to Industry

NRC's Applied Neutron Diffraction for Industry (ANDI) program leads the world in scanning for residual stress at depth in engineering components. Residual stress is a major cause of failure in industrial structures. The ANDI program gives industry fast access to proprietary neutron beam analysis, to help avoid the risks of costly in-service failure, improve industrial processes, and certify new product designs.

Only neutrons can directly detect residual stress deep inside alloys and ceramics, and so contribute to the reliability and safety of new industrial products.

