

## **E0039**

**The Spallation Neutron Source: On Time.** I. S. Anderson, Oak Ridge National Laboratory, Oak Ridge, TN 37831 USA.

Neutron scattering methods allow the determination of dynamical processes in materials, at the atomic and molecular level, over a wide range of time scales. The next generation of spallation neutron sources will offer pulsed neutron fluxes significantly more intense than presently available and will enable time dependent processes to be followed using pulse probe methods operating at frequencies up to 60 Hz. Hence new sources, such as the Spallation Neutron Source, due to come into operation in June 2006, will enable real time studies to be carried out at characteristic time scales that have previously been difficult to investigate. New capabilities enabled by these techniques will be discussed.