

## **APT CHARACTERIZATION OF THE DECOMPOSITION OF BULK METALLIC GLASSES**

M. K. Miller\*

*\*Metals and Ceramics Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831-6136, USA.*

The early stages of decomposition and phase separation of bulk metallic glasses may be quantified by atom probe tomography to provide information on their stability. Atom probe tomography has been applied to several bulk metallic glasses to reveal changes in the atomic arrangement of atoms in the as-cast state and after annealing in the vicinity of the glass transition temperature. The composition and morphology of coexisting phases may be characterized from the earliest stages of decomposition to the final crystalline microstructure.

Research at the SHaRE User Center was sponsored by the Division of Materials Sciences and Engineering, U. S. Department of Energy, under Contract DE-AC05-00OR22725 with UT-Battelle, LLC.