

Fall 2006 Wulff Lecture

Tuesday, November 7, 2006

4:30–5:30pm

Room 34-101

Reception to follow.

Electron Microscopy as a Window on the Nanoworld

Dr. Ulrich Dahmen

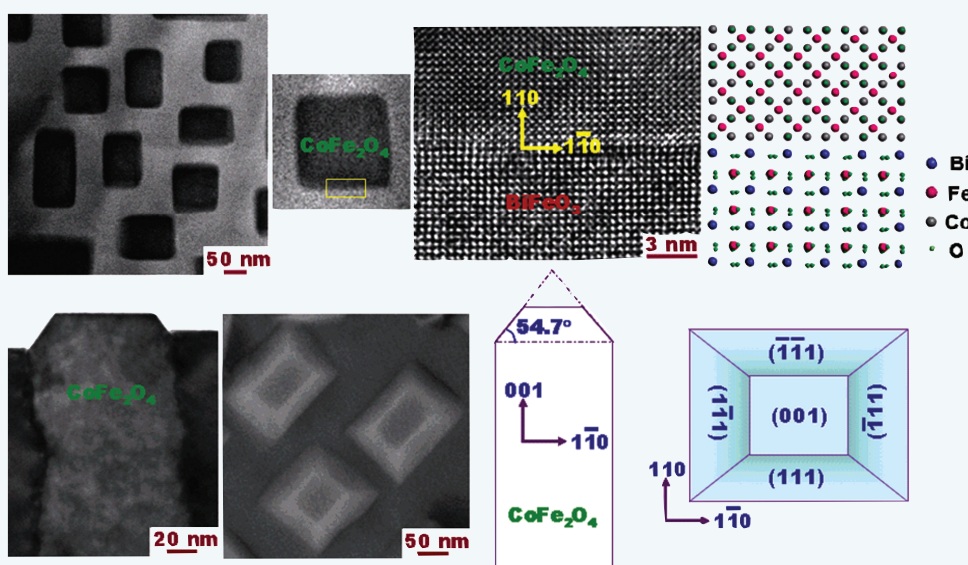
Director

National Center for Electron Microscopy (NCEM)

Lawrence Berkeley National Laboratory



Dr. Dahmen has been engaged in electron microscopy research for more than 25 years. He holds a Ph.D. in Materials Science from UC Berkeley and is a principal investigator and senior staff scientist at LBNL. Since 1993, he has been Head of the NCEM at Berkeley Lab. His research program on the Crystallography of Microstructures focusses on the atomic-scale structure of interfaces in materials and uses transmission electron microscopy as a major tool for microstructural characterization. Dr. Dahmen also directs the Department of Energy's TEAM project to develop a next-generation electron microscope based on aberration-corrected optics. He has published extensively on the crystallographic structure of interfaces, the evolution of precipitate morphologies, and the effects of size on the behavior of embedded particles.



Morphologies of the $\text{BiFeO}_3\text{-CoFe}_2\text{O}_4$ nanostructures grown on a (001)-oriented SrTiO_3 substrate.

