



**Professor Peter A. Dowben** Charles Bessey Professor of Physics and Nebraska Center for Materials and Nanoscience at University of Nebraska, Lincoln, USA. Professor Dowben received his PhD in physics from University of Cambridge. The major focus of the Dowben group emphasizes the changes in electronic (band) structure across electronic phase transitions in reduced dimensionality. Of interest are ferromagnetism in local moment systems or spatially restricted systems, ferroelectricity and the nonmetal to metal transition. Specific techniques include angle resolved photoemission, resonant photoemission, inverse photoemission and spin polarized inverse photoemission. Other techniques include spin polarized photoemission, characteristic energy loss, low energy electron diffraction, angle resolved thermal desorption spectroscopy, Xray photoemission, and magneto-optic Kerr effect.