

Stanford University School of Humanities and Sciences

Department of Applied Physics

Theodore H. Geballe

*Emeritus Professor of Applied Physics and
of Materials Science and Engineering*

[Directory Link](#)
[Research Group Link](#)



Research areas:

Condensed Matter, Nano Sci/Eng, Synchrotron Radiation

Description

Condensed Matter Physics

There are regions in the phase diagrams of the high T_c cuprate superconductors where tantalizing clues of strong new pairing mechanisms exist. I collaborate with Ian Fisher, and Wendy Mao using chemical and high pressure techniques, and with Mac Beasley and Bob Hammond using advanced thin film deposition techniques to prepare new materials and with the KGB group in measuring their properties.

Courses Taught

Energy Options for the 21st Century

Selected Publications

Enhanced Superconductivity in Sr_2CuO_4 -v

Experimental investigation of electronic properties of buried heterointerfaces of LaAlO_3 on SrTiO_3

Superconductivity in zigzag CuO chains

The Never-Ending Search for High Temperature Superconductivity

Tetragonal CuO : end member of the 3d transition metal monoxides

More Faculty in This Theme



Benjamin Lev



David A. Reis



Daniel S. Fisher



Ian R. Fisher



Harold Y. Hwang



Aharon Kapitulnik