Santa Fe Science Café for Young Thinkers

"Too Cool to Resist: The Mystery of Superconductivity"

Ross McDonald
Los Alamos National Laboratory

Wednesday, January 14
6:00-7:30 PM

Georgia O'Keeffe Museum
Education Annex
123 Grant Avenue, Santa Fe

The ages of mankind are defined by the materials we have mastered—from the stone, bronze, and iron ages to today's, silicon age. What materials will define the next age? Being able to design materials with new functionality holds great technological promise. One example is the prospect of creating materials that superconduct — carry electrical current without loss — at room temperature. Such materials could enormously reduce energy demand world-wide. I will discuss the technical challenges of using the world's strongest magnetic fields to reveal the mysteries of superconductivity at high temperatures.

Admission is Free. Youth (ages 13-19) seating a priority. Light refreshments will be served.

Ross earned his PhD at the University of Oxford. Today he pursues his studies of superconductivity at the National High Field Magnet Lab campus located at LANL.

Sponsors: Santa Fe Alliance for Science; Santa Fe Public Schools; Georgia O'Keeffe Museum; Santa Fe Institute. Call 603-7468 for more information.