

Santa Fe Science Café for Young Thinkers

“Einstein’s Relativity for Students of All Ages”



Bob Eisenstein

**Santa Fe Alliance for Science
Thursday, September 15
6:00-7:30 PM**

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

In 1905, and again in 1916, Albert Einstein completely overturned our understanding of space, time and gravity. Using only images and analogies, we will explore the meaning of Einstein’s ideas. Special relativity (1905) showed that each person sees the world from their own reference points in space and time, none of which is absolute - "everything is relative." General relativity (1916) showed that gravity results because mass in the Universe warps spacetime. These ideas provided the basis for our present very deep understanding of the cosmos, including such concepts as the expansion of the Universe, the existence of black holes and other fantastic notions.

Admission is Free. Youth (ages 13-19) seating a priority. Light refreshments will be served. Bob will also appear at 8:30 AM the same day on the **Santa Fe Radio Café** (KSFR 101.1 FM) with host Mary Charlotte streaming from www.ksfr.org.

Bob is a retired physicist living in Santa Fe. He was born and raised in St. Louis and was educated at Oberlin College and Yale University (Ph.D.). He spent many years at Carnegie Mellon University, the University of Illinois and the National Science Foundation. Today he is the founding director of the Santa Fe Alliance for Science, a non-profit organization of professional math and science volunteers helping in K-14 math and science education.

Sponsors: Santa Fe Alliance for Science; Santa Fe Public Schools; Georgia O’Keeffe Museum; Santa Fe Institute. Call 424-0806 for more information.