

# **Santa Fe Science Café for Young Thinkers**

## **“The Birth of Black Holes in The Universe”**

**Ed Fenimore**  
**Los Alamos National Laboratory**

**Wednesday, October 13, 2010, 6:00-7:30 PM**

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

From the Big Bang to black holes, the Universe has evolved to contain many awesome objects. A few hundred million years after the Big Bang the first stars formed, many of which evolved very quickly into black holes. Today, with robotic telescopes in the Jemez Mountains and self-steering satellites, built in part at Los Alamos, we can observe the birth pangs of those early black holes. These “Gamma-Ray Bursts” were discovered at Los Alamos more than 30 years ago as a part of the program to reduce the proliferation of nuclear weapons. To this day, Los Alamos continues at the forefront of research into their nature.

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

Chris will also appear at 8:30 AM the same day on the **Santa Fe Radio Café** (KSFR 101.1 FM) with host Mary Charlotte at [www.ksfr.org](http://www.ksfr.org).

Ed studied astronomy and astrophysics at the University of Chicago. He did his student thesis work at Los Alamos and has continued to work there for 35 years, specializing in the observation and theory of gamma-ray bursts as well as in the detection of nuclear explosions from space.

*Sponsors: Santa Fe Alliance for Science; Santa Fe Public Schools; Georgia O’Keeffe Museum; Santa Fe Institute; New Mexico Public Education Department.*

Please call 603-7468 if you’d like more information.