

Using Simulations and Simple Technology...


Your classroom becomes an **Emergency Response Center** during a natural disaster:

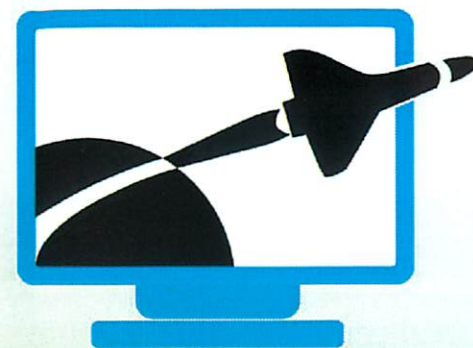
- Earthquake
- Landslide
- Flood/ Dam Breech
- Flooded Nuclear Plant
- Evacuation

What's important is that children can accomplish the mission with their very own hands and that science, math and technology can be fun.

--Dr. June Scobee Rodgers
Challenger Center Founding Chair



CHALLENGER
STEM
LEARNING CENTER
THE UNIVERSITY of TENNESSEE 
CHATTANOOGA



TENNESSEE RIVER IN CRISIS!

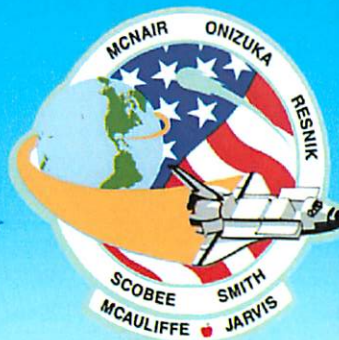


When the crew of the Challenger Space Shuttle perished in 1986, they were on a pioneering mission to extend the boundaries of human knowledge. The Challenger Learning Centers are continuing that mission today by preparing students for life.

For more
information or to
make a reservation,
please call
423.425.2191

Thomas Patty - Director
423.425.4126
Tom-Patty@utc.edu

UT Chattanooga
www.utc.edu/ChallengerCenter



VIRTUAL MISSIONS

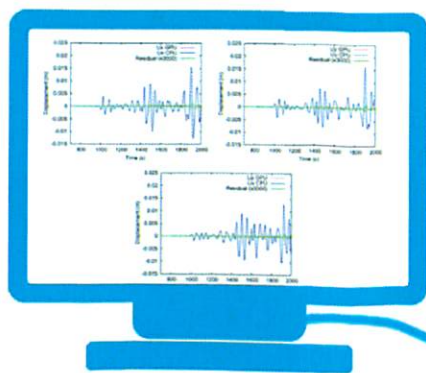
THE MISSION

An earthquake threatens to break a dam--

- Students form Emergency Response Teams and respond to the crisis
- Each team downloads real-time data
- Data analysis yields options and options yield an action plan

THE ACTION

- Problem solving
- Math skills, data analysis
- Communication
- Collaboration & Teamwork



THE CURRICULUM

- All preparatory materials are provided in advance via the web.
- **Next Generation Science Standards include:**
Engineering (dam design, nuclear power and hydroelectric power generation)
Earth Science (earthquakes, watersheds)
Technology (measuring devices, water flow monitoring)
- **Common Core Math Standards include:** determining volume, distance, rate and time equations, coordinate plane graphs, analyzing and interpreting data and graphs, and integers.

Students interact live with a mission commander from the Challenger Center



THE CLASSROOM

- From 12-35 students may participate
- Scheduled for 75-120 minutes on a day and time of your choosing
- From 5-15 computers may be used
- The web/ video conference is tested in advance to ensure no glitches

*Program begins
academic year
2013-2014.*

