



BRADBURY

SCIENCE

museum

## The Seismic Seat

*The Seismic Seat* is a unique opportunity for your guests to experience the motion of several actual seismic events, all while safely seated in your venue.

Under construction now, the Seismic Seat is a riveting focal point for the upcoming “Explosion Detectives” exhibit about ground-based nuclear explosion monitoring. You might imagine something like a mechanical bucking bull ride. While it’s true the Seismic Seat reproduces signals from real-live quakes, you won’t have to hang on for dear life (or duck under a table).

### Ride the seismic waves!

Drawing from real events in Japan, Indonesia, North Korea, Washington State and Nevada, the Seismic Seat pumps out signals from both explosions and earthquakes. Each seismic wave ride lasts less than 30 seconds, with guests watching the seismogram in real time as they ride the waves.

Given six red buttons to choose from, guests might first ride the 2017 North Korea underground nuclear explosion (magnitude 6.3), then try the 2018 Japan earthquake (magnitude 6.0) — both of which are moderate events on the Richter scale. The last button is a “mystery” event, where you must guess earthquake or explosion. Guests also watch the

For younger kids, the Seismic Seat will simply be a way to feel a simulation of an event. Adults, on the other hand, will be more able to feel subtle differences.

### Who are our partners for *The Seismic Seat*?

The Global Security Nuclear Nonproliferation and Security program office at Los Alamos National Laboratory

### Interesting facts:

- Seismic waves move quickly at 20 times the speed of sound
- P waves are the fastest-moving type of seismic waves.
- Today, more than 150 seismic stations are operating as part of the International Monitoring System to detect nuclear tests in breach of the Comprehensive Test-Ban Treaty (CTBT), which opened for signatures in 1996.

“Although I was never in a strong catastrophic earthquake, I do remember earthquakes occasionally waking us up at night. The Seismic Seat reminds me strongly of the real thing” — Mel Strong

### Requirements

- Compact exhibit needs only 10’ x 10’ of space
- Ships in two ATA travel cases
- Sets up in under 60 minutes
- Needs only two standard electrical outlets
- Includes promotional materials to help advertise it at your location
- Includes educational activity suggestions

Contact us to schedule this exhibit to your location!