Page 6

**Daily Nebraskan** 

#### Wednesday, August 29, 1984

### Earthquakes raise questions about safety preparedness ERKELEY, Calif - Sensible citizens make a squiggle on seismographs here consider modern life altogether too full of incident, and they may become cross with Professor Bruce Bolt SEEEEEEEE because he says the earth is going to heave beneath our feet. In fact, were our

George

feet sufficiently sensitive - and thank God they are not - we would, he says, feel it heaving constantly.

Bolt is a seismologist. His science is of intense interest in California, and in New Madrid, Mo., the site, around New Year's, 1811-12, of several of America's most severe quakes. They temporarily reversed the flow of the Mississippi, altered its course and caused church bells to ring in Boston.

Today about a million people live in the zone of maximum vulnerability. Quakes of the 1811-12 scale would damage St. Louis, Little Rock, Nashville and parts of seven states. Because quakes are rarer there than in California, building codes are less strict. The rarity is ominous. Geological tensions are building in that zone and a sudden adjustment may be overdue.

The New Madrid quakes were approximately 8 on the Richter scale. The Alaska quake of Good Friday, 1964, was 8.4. The 1906 San Francisco quake was 8.3. The scale is logarithmic: The San Francisco quake was 900 times more powerful than the 6.5 quake that in 1983 left 30 percent of the houses in Coalinga, Calif., uninhabitable. The Coalinga quake resulted from some faults not previously mapped, raising the question of how many more unknown faults in California could cause quakes of 6 severity.

There are 2,500 to 10,000 measurable quakes a day, worldwide. In California there are about 30 a day strong enough to

and elsewhere. The problem is that California has chosen, improvidently, to sit on two plates of the earth's crust, one of which is moving south while the other heads for Alaska at a rate of 2 inches a year.

For several days after a serious quake there might be no effective civil authority to allocate medical and rescue resources. So there are large stakes in the scientists' search for patterns of premonitory events. Bolt knows that by predicting where and how much the earth may move, measures can be taken (concerning the architecture of schools, distribution systems for water and power, dams, bridges and other matters) that will mean that when the pieces are picked up, there will be fewer pieces than there might have been.

The Lisbon earthquake on All Saints Day, 1755, was an important event in the history of the European mind. It killed thousands of persons in churches, and thousands more who, fleeing to the seashore, were drowned by a tidal wave.

Seventeen days later, in Boston, a quake stopped clocks and killed fish in the harbor. Clearly, seismology, wth its predictive potential, is a practical matter. But Bolt, a dry and laconic Australian, is relaxed. One must be when the stakes of one's investigations are large, but the events one is investigating are beyond control and, pending the accumulation and sifting of vast quantities of evidence. are unpredictable.

Bolt has, as a good scientist is apt to, a philosophic turn of mind, and his work has potentially cosmic reverberations. Earthquake waves bouncing around the earth's interior reveal much about the planet's structure, and hence are suggestive about its origins. Thus seismology serves cosmology by producing clues about the "big bang" or whatever it was that produced the universe, and all matter, including the small quaking fragment on which we travel.

**©1984.** The Washington Post Writers Group

# 501° JEANS

#### Levi's 501 Blue Jeans Classic Shrink-To-Fit Denim.

Just like an old friend. Levi's \* Blue Jeans, keep getting better with age And this is one friend you can rely on. Because every pair is made with tough XX denim and all the quality Levi's \* has been famous for since 1850

From the sturdy rivets to the dauble-stitched seams, you've oot an unbeatable friend in Levi's\* Blue Jeans.



QUALITY NEVER GOES OUT OF STYLE

**ONLY 2 BLOCKS** FROM CAMPUS!

# Welcome Back Students!

C

Start your school routine out right with Chesterfield, Bottomsley, and Potts and Big Red Pool Room

## **BIG MENU**

ESTERN

Corner of 12th & P

 Serving a delicious variety of burgers, sandwiches, steaks, salads, and Mexican food.

LINCOLN ARMY &

**STOR** 

474-3613

EXTRA SPECIAL-Everyday food specials-Try them!

## VARIETY OF **GREAT DRINKS**

 Bloody Marys, Strawberry Daquiris, and Margaritas

## • GREAT DAILY DRINK SPECIALS

 HAPPY HOUR 4:30-6:30 Mon.-Thurs. 3:30-6:30 Fridays

> LIVE WEEKEND ENTERTAINMENT in the Sioux River Yacht Club (our Dance Room)

AT CHESTERFIELD'S **"WE'VE GOT** SOMETHING FOR EVERYONE!"

> Lower Level Gunny's Mall

# **Big Red** Pool Room

- 16 Standard Size Tables
- 1 Snooker Table
- Timed Rates
- Video Games
- Darts
- Monday Night Pool Toumaments
- Off Sale Beer and Liquor

Bottoms/ey AN FILLA 4

Lower Level Gunny's Mai 245 North 13th Street ncoln, Nebraska 475-8007