y Hellweg monitors world's earthquakes

iting, San FranciscoChronicle, 11-2-13

ference room on the second floor of McCone Hall at UC Berkeley sits an olc-style seismograph cal pencil, ticking away as it marks tremors on a oll of white paper. Across the hall sits Peggy, operations manager of the Berkeley Seismological Laboratory.

We collect and provide data, report on earthquakes in Northern California, and train new gists and do research with the data that we collect. Our funding comes jointly from the federal ent and the state, with some from the university.

ation I grew up in Lafayette. I studied physics at UC San Diego. I needed a part-time job and group of seismologists who needed a programmer. I was learning the science behind the program and that was seismology.

antics The difference between geophysics, of which seismology is a part, and regular physics, i ologists don't have a lab to do experiments in. We get what the Earth gives us.

pment That thing across the hall (seismograph) is only for show now. For the earthquakes we a d in measuring, we'd need a roll of paperthat is 3 miles across. Three-mile-across paper is not vent. We use computers now. I can display it on my screen.

: What you see on the paper and on the screen is data that comes from a station that was built in a tunnel in he Berkeley hills. It goes down to a data center then comes back up analog to the para program on the screen. With the equipment that we have, we can measure earthquakes on the Fault. But we can also measure a magnitude 4.5 earthquake in Japan or Tonga or India.

tion At Memorial Stadium, we had a steel bore hole 400 feet down with wires that came up and ta logger box. Our recording equipment was in the north tunnel. It's basically inside the Haywar ey retrofit the stadium, they lost the bore hole. Our stuff was unrecoverable. So now they've drie hole at the stadium, just up the stairs from the main entrance. It's probably 500 feet down and do it.

straion: Nobody wears a pager anymore, but I do. Today, at 3:37 in the afternoon my pager we agnitude 3.8. I was in a staff meeting when it went off. I said, "It's offshore of Eureka. It's not ting.'

tement Two years ago, in October, there were a couple of earthquakes that happened right here