SPORTS NATION

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Tapping into

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Scientists are developing an early warning system that could provide as much as 40 seconds of notice before an earthquake strikes. The system detects a quake's primary, or P waves, which precede the more destructive shear, or S waves.

By Andrew Bridges THE ASSOCIATED PRESS

off, only walking son of 1990 Derby LOS ANGELES - Scientists working in outhern California have proposed a way of interthe track Thursday preting feeble tremors that herald a large earther been a great jo quake, a step that could help in providing advance se long legs and he like pistons. He's

The system theoretically could give anywhere rom seconds to tens of seconds of advance notice enough time to send school children diving elow their desks or to cut the flow of gas through ipelines vulnerable to rupture, scientists said. Details appear Friday in the journal Science. Similar systems already are used in California

and Japan on a smaller scale. The latest system Maker faces a tough would not predict or forecast earthquakes, but first Derby victory ather interpret the staggered way in which a race in the last 23 uake's energy travels to the surface. ds out long shots

The first indication at the surface that a large earthquake has occurred is typically the jolt he in his quest for a 'can't be a positive caused by the arrival of a fast-moving but lownergy wave called the primary or P wave.

It is followed by the more energetic but slowermoving S or shear wave that causes far more vio-

Richard Allen of the University of Wisconsin-Madison and Hiroo Kanamori of the California nstitute of Technology developed a way to deternine the location, origin, time and - most importantly - magnitude of an earthquake from as litthe as four seconds of measurements of the P wave. The system would rely on seismic instrunents already deployed across the greater Los Angeles region.

Derby favorite since ne before finishing wins in the Florida was already being in part because of me connections ed what separate ear-olds. trainer said. "I can

Alleged hero arrested, among arson suspects ABILENE, Texas (AP) - Arson

was the cause of an apartment e been disappointfire in which a man was hailed as hero for rescuing some occupants, then was arrested on a probation violation after he peared on TV. Kris Leija has ow been named as a suspect in the arson, investigators said.

found in a trailer where the apartment fire appeared to have The identity of the hydrocarbon

will be determined by analysis in the state fire marshal's lab. Common hydrocarbons are gasoline, natural gas and a variety of oils, the Abilene Reporter-News reported.

After Leija's bond hearing Wednesday, his attorney, Sam Moore, said no one - including

If directly above the epicenter, there would be no time for a warning, since the S wave would arrive almost immediately after the P wave. At 37 miles from the epicenter, the system could give a magnitude estimate 16 seconds before the arrival

"If we can detect this P wave and use the infor-

mation contained in it to estimate the hazard asso-

ciated with an earthquake, then there is the poten-

tial to issue a warning before any significant

the distance of the sensors from an earthquake's

of the S wave and the strong ground motion that

accompanies it, Allen said.

The amount of forewarning would depend on

ground motion reaches the surface," Allen said.

5B

Friday, May 2, 2003

at various distances from

Los Angeles

NEWS IN BRIEF

epicenter.

his client – had been ruled out as of hydrocarbon accelerant was a possible suspect.

Leija, 22, said he was passing the apartment complex on his bicycle early Sunday when he noticed the blaze. He braved the flames three times, rescuing four children, including one in a baby seat, and ignored paramedics who warned him of danger.

Video footage showed Leija collapsing on his hands and knees from apparent exhaustion afterward.

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