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Science Measures Quakes of Jittery World

onsiderable distance away, grad-but there are two instruments But there are two instruments

By RENNIE TAYLOR AP Science Reporter PASADENA, Calif. — Half an hour after the earthquake in Tibet, Aug. 15, 1950, one of the great-eat ever recorded, the earth's sur-face in California moved slowly a but does no harm because it is so big and so slow, Whole build-north-eastward about a foot, then back again. A few minutes later, parts of Af wintervalis between these two At intervalis between these two occurrences the intervening terri-

At intervals between these two occurrences the intervening terri-tory moved also. There were several of these movements about fair an hour, Each succeeding swing was small-er than its predecessor. The same thing happened in oth-er great earthquakes and will con-tinue to happen whenever a major movement occurs in the earth's crust. A long, slow terrestrial shud-der follows the earth's surface much like a wave on the occan, but different from the shock waves felt by humans. It is mostly a sliding, horizontal movement. EARTH'S SKIN STRETCHES The push-puil force of these makes produces strains to come

By JEAN OWENS Pelican quintet met a surprise upset in the Klamath vs. Grants Pass basketball game on the Grants Pass home court Friday night, but they came through with the high score in Saturday night's game to redeem themselves and their school. The push-pull force of these quakes produces strains in a con-siderable area of the earth's skin, which is somewhat flexible. You can illustrate it by putting a fin-ger on your bare arm and push-ing or pulling the skin. The great-est skin movement is near the finnight.

In Fairbanks

Congratulations to the Pels for well-played but hard-fought games. **Temp Plunges**

cheese dressing.

K 24 24 5

By JEAN OWENS

Many Pel fans braved the icy highways to see and support the team Saturday night, although only

a few were able to attend Friday

Pelican service club has formed a disciplinary committee to en-force the rules and regulations of the club. Members of the committee are the three officers of the club, Ad-visor Mr. Ross, Claudia Miller, June Stearn, Don Paugh and For-rest Ruthofge.

light thus traces an enormously magnified graph of the rock squeezing or stretching movement. This graph is a series of sharp, wavy lines, a representation of the great slow motion that produced the minute squeezing and stretch-ing wave broadcast. GIANT CALLED FOR

The instrument is so sensitive The instrument is so sensitive that it performs wildly from the amount of strain put on the foun-dation rock by a person walking in the building above. Because of this the graphs are scientifically useless while building is occupied. The weight of three men stand-ing at one end of the instrument causes enough strain on the rock How GADGETS WORK They are called strain seismo-graphs, Conceived and designed by Dr. Hugh Benioff of the California Institute of Technology, they are being duplicated in other earth-quake research centers. The strain seismograph is based

being duplicated in other earth-quake research centers. The strain seismograph is based on the fact that there is a tiny difference in the amount of this isoreaweith between two points a few feet apart. But it is far too small to be detected by any ordi-nary means. For example a quake in Tibet pushing its force across the Paci-tic compresses the earth a little while moving it slowly. The big rock upon which California Tech's sismological laboratory is built is shortened a few millionths of an inch because of this pressure. This compresses the foundation of the building too, but a few millionths of an the Atlantic coast in one hand and the Pacific coast in the other and squeezed them together until he reduced the width of the con-tinent by one inch, the tube of a strain seismograph at somewhere near Omaha would move about five millionths of an inch and pleted. One of Dr. Behioff's existing in-

One of Dr. Behioff's existing in-These great slow motions have struments is delicate enough, howwave lengths far too long for ordi nary earth movement detectors. They are about 620 miles from peak to peak in cycles of about five minutes each, which means a speed upwards of 120 miles a min

ute. Earthquake waves which travel more or less directly through the

earth instead of along its surface So important are these great carth instead of along its surface are the principal ones recorded on ordinary seismographs. They are much shorter than the strain waves. These direct waves have frequencies ranging from a few seconds up to 50 seconds. Thus an ordinary seismograph is as useless on these long, slow strain move-ments as a short wave radio re-teiver trying to pick up a long wave broadcast.

Rain or shine...

slops dog odors l

SCHENLE

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The new instrumentson Palomar Mountain have tubes 150 feet long. They will be able to pick up waves longer than those recorded on the 60-foot instruments here, but just how much longer Dr. Benioff does not know yet

not know yet.

Any living thing big enough to teel the long waves would need a reach of at least 300 miles. Beni-off's glant, standing with one foot in Kansas City and the other in Sealed against water incinnati, might feel them slightcure against shock There may be other waves even longer than the five-minute ones, possibly with frequencies of hours or days. They may be writing the pattern of growth of mountains or even changes in whole continents dog smells fine! Meat-flavored biscuit Goodbye to unpleasant dog odoral New, improved Ken-L-Biskit now con-tains miracle chlorophyllin, nature'n own deolorant. Eliminates bad breath, coat odors, oll dog odors in leas than seen days! Give your dog the de-licious, nourishing food that rids dogs of strong odors. Pick up Ken-L-Biskit today as your favorite store. incaflex he weatherproof watch Any weather, anywhere... Wyler Incaflex never has to leave your wrist. Shack can't hurt it...water, dust and dirt can't get at its preision movement...always ight as rain. 17 JEWELS STEEL BACK The flexible balance wheel IS FULLY GUARANTEED AGAINST SHOCK becouse

700 Main



INEA Telephoto

DECORATIONS PAY OFF-Sgt. Andrew R. Allen, as the most recorated soldier aboard the troop rotation ship Marine Phoenix from Korea, was the first to debark at Seattle. As a result, he ran smack into the arms of actress Joan Caulfield, standing by io. Liat purpose.

HST Sees Federal Farm

<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text> The chief executive said the gov-ernment's price support program production by keeping support pric-es on coiton, corn, what, soy-beans, milk, wool and several oth-er commodities at maximum lev-els of 9 per cent of parity. (Parity is a standard for meas-uring farm prices, declared by law to be equally fair in relation to prices farmers pay for goods they use.)

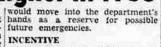
The government's farm produc-tion goal for fiscal 1953 calls for a six per cent increase in output over last year's record and 50 per cent above the 1935-39 average. Some of this increased production

Stork Visits Ship at Sea

SEATTLE (2) — When the Navy Transport Hugh J. Gaffey docked here Saturday, a huge flag flut-tered from its side saying "IT'S tered fr A BOY.

The sign referred to Jeffrey Foe The sign referred to Jeffrey Foe-gel who was born at sea last Mon-day. He is the son of Staff Sgt. Cliniton Foegel, of Roseburg, Ore., and his Japanese wife, Kumiko. Doctors, nurses and the medical staff delivered the baby. Carpen-ters built an incubator which was outfitted by electricians.

U.S. Skiers Finish One-Two



He estimated \$182 million will goods that had frozen and bulged the container. He estimated \$182 million will be required to pay wheat export subsidies under an international wheat agreement, or about two million more than this year and more than double the cost two years ago. He acknowledged that this program is costing more than had been forecast at the time the agreement was signed three years ago. Cans of beer froze in less than 45 minutes. One dairy installed a battery of heaters in its delivery trucks so milk could be delivered to custom-ers before it turned to ice cream.

agreement was signed in the second state of th over from the current year would permit about as many loans as this year. The Intercollegiate Forensic Association of Oregon sponsored

WINNERS

Helena Rubinstein offers Stay-Long lipstick sampler with make-up analysis free!



As we ourselves are the teen-agers, perhaps the panel discus-sion tonight at 8:30 over KFLW, "how we can better build tomor-row's citizens," should be of spe-cial interest to all of us. Because of the great around of mble set SINGER SEWING MACHINES cial interest to all of public re-of the great amount of public re-FOR RENT \$6 per month-We DELIVER ast weeks discussion on the same topic, Listen in to hear the opinions of others, then form your own. SINGER SEWING Mix diced pears with diced cele-CENTER ry and broken walnut meats and mold in a flavored gelatin; serve on salad greens with a cream 2-2513 633 Main

 Congratulations to the Pels for well-played but hard-lought games.
Sunday "Youth Views the News," at six thirty over KFJI had many insteners in the Klamath Basin due to the participation of KUHS stutters. It was heard over four stations in Oregon and eight stations.
The program was tape-recorded trian word and the state of the total earth surface in the Klamath Basin due to the participation of KUHS stutters.
The program was tape-recorded trian some state over the total earth surface in the Klamath Basin due to the participation of KUHS stutters.
The program was tape-recorded trian some state in a small-tore tunnel under the building. Its is the closes the next end of the tube is set rigidly in the rock wall that closes the next end of the tunel. The aspect or students made up the partel which discussed three subjects: phases of President Trummar's state motion into a feeble electric current.
Four students made up the partel which as producer.
The union address to Congress, the student co-operation in the program was especially fine." was the comment of Millard I reland.
All arrangements were made by Mr. Deller, civics teacher and adrives of the gadget are only 60 thousandths of an inch apart.
When any earth force squeezes or stretches the rock it does not change the length of the tube because the gadget in relation to the first and the program was sponsored by Weyerhauser Timber company.
Pelican service club has formed a disciplinary committe to comment of the sufficient to move Schenley makes

every drink



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CHICAGO (1) — U.S. Olympic team members, Art Devlin of Lake Placid, N. Y. and Wilbur Rass-mussen of Ishpening, Mich., fin-ished 1-2 Sunday in the 46th annual Norge Ski Club jumping meet at nearby Fox River Grove. Devlin won with leaps of 195 and 196 feet. He was awarded 2203 points, Rassmussen compiled 216.1 and had jumps of 187 and 190 feet.

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