

BUTTONS

BUTTONS

BUTTONS

BUTTONS

BUTTONS

BUTTONS

Buttons - Buttons - Buttons

WHO HAS BUTTONS?



STEER'S



Thirty-Six Thousand Dozen of 'em

(36,000 dozen)

Mothers, Daughters, Tailors and Dressmakers, Your Chance is Now

All Colors, Sizes and Shapes.

Original Cost Over \$2.00 per Dozen

All Selling Now 10 cents Dozen

BUTTONS

BUTTONS

BUTTONS

BUTTONS

BUTTONS

BUTTONS

Seismograph and Earthquake Proof Houses

Tremblings and shiverings are ceaselessly going to and fro in the earth, like Job's Devil, and walking up and down in it, and the seismographs are swaying all the time in sympathy with such movements. But from the layman's point of view only the tidal waves count. When they occur, as they have recently with such deadly force in Japan, the seismograph reaps the reward of its exquisite responsiveness to motion and becomes for the moment a public character. How it does this Professor Turner has just explained in the Quarterly Review with a vividness and lucidity most helpful to laymen. The tricks of the earthquake trade," says the Manchester Guardian.

The seismograph, it seems, works like the boom of a yacht, swinging, as the earth rolls about it, on a pillar which takes the place of the yacht itself. The swings are, of course, minute, and they are, therefore, magnified several hundred times and then photographed on to a drum which is

revolving in spiral fashion. This photograph appears, in the ordinary way as a more or less even line, broken only by slight, persistent tremblings. But when a shock of any magnitude has happened the line is thrown markedly out of the straight at three points.

"For every shock sends out three distinct series of wave motions. The first travels the fastest; it is as though someone at the earthquake end had suddenly tugged a rope attached to the distant instrument. The second travels more slowly, as though someone, instead of tugging, had twisted the rope. The third series of wave motions, unlike the other two which travel through the earth travel round it, and naturally arrive last.

"By comparing the time marks on the chart the intervals at which these various disturbances reached the observatory are worked out and (since the relations between their speeds is known) the distance at which the earthquake occurred can be calculated. But its direction has still to be discovered. For this it is necessary to have three seismographs together—two facing in different ways horizontally and the third in a vertical position.

"Suppose, for instance, that two instruments are arranged at right angles, and are sensitive respectively in a north-south and in an east-west direction. Then an earthquake due east would only affect one of them. But in practice such an extreme case is very unlikely to happen; instead, the evidence of the several instruments as to the danger point of the compass combined with a knowledge of the distance, allows a pretty close estimate to be made. When to this are added the reports of other stations complete accuracy can be obtained.

"Such is the beautiful scientific cunning of the seismograph. It is only within the last half century that it has swayed over the land, and many of the problems that it raises are still unsolved. But there is no knowing what these men of science will find out next. So far they act merely as advance publicity agents of a disaster, perhaps one day they will become its prophets and give warning."

"To construct a house that will withstand an earthquake is not difficult if you can command the right materials and good carpenters. A point that has not been recognized generally by architects or engineers is that it is the earth that moves, while the house tries to stand still. If you could put a ball-bearing between your house and its foundations it would be safe in time of earthquake," says Dr. Bailey Willis,

and dealt with in Current Opinion concerning an article by R. E. Martin in Popular Science Monthly.

"This idea is embodied in every instrument for recording earthquakes, and was applied many years ago by Sir John Milne to the construction of a lighthouse in Japan. I believe it can be introduced successfully in some combination of bearings, springs or shock-absorbers.

"For the ordinary house a broad ditch packed with cobblestones on which rests a well-braced frame of heavy beams would not be a bad substitute. It would allow the ground to slide around under the house, which would be packed back into position with reference to such unstable things as trees, garden walks, and roads at your convenience."

"Dr. Willis adds that the displacement within the earth that results in rock slips that science now regards as the cause of earthquakes is developing below the surface for months before the quake occurs. This displacement usually does not actually reach the surface, but produces vibrations or waves that can be recorded by special instruments as a means of obtaining fore-warning of the coming quake. The vibrations travel great distances at high velocity before they die out.

Dr. Willis asserts: "The instruments will have to be set up in many places, and records kept for years before the science of predicting earthquakes is set on a firm basis. I think it is not at all unlikely that in the future earthquakes can be predicted much as the weather can be predicted now. Warnings can be sent to threatened districts and measures taken by the populations to save themselves."

TEAPOT DOME.



WALT MASON

plague of oil that jarred us, forty ways. One day my father sought the well for a refreshing drink; the water had an oily smell that put it on the blink. My aunts went forth to milk the kine, hurried to useful toil, and came back home at half past nine, their buckets full of oil. "We need a rain," my uncle said, "to soak the parching soil;" the clouds then gathered overhead, and soon were raining oil. Such oiliness destroyed our peace, and made our lives seem hard; the brooks were running melted grease, the springs all squirted lard. When father at the table chewed an egg or bacon rind, he said, "It tastes to me like crude, and I prefer refined," and so we left our happy home in sorrow and despair; we moved away from Teapot Dome, it was too oily there. My plow is cleaving other loam, but off at night I dream, and dream again of Teapot Dome, where life was sure a scream.

In strange and distant lands I roam, but ever, evermore, my thoughts return to Teapot Dome and happy days of yore. 'Twas there our lowly dwelling stood, upon a gentle rise, 'twas there my father sawed his wood, and mother biffed the flies. There was no trouble that could spoil our glad and cheerful days, until there came the



A WARNING.

The uninsured lose everything in case of fire. The insured are reimbursed to the extent of their loss. The cost of the policy making the difference, is a few paltry dollars. Ruin in the one case, protection in the other. Which course will the wise man take?

TESSIER'S INSURANCE AGENCIES. Phone 244 P.O. Box 994.

Public Women on Their Merits

"In future women will be successful or the reverse as candidates, as members, and as administrators, according to their merits as individuals. Those feminists who urge the public to support them merely because they are women will hamper rather than help them, for propaganda of that kind tends to keep alive the dying feeling that their presence in public life is something abnormal. They should be—and we are confident they themselves will wish to be—regarded as ordinary candidates and ordinary members until they have proved, by their work that they are more than that," says the Westminster Gazette.

BONELESS BEEF

200 barrels Regular Choice New York
100 barrels Choice Hotel Style

LOWEST PRICES

HARVEY & CO., Limited

A Classy Attraction

CANADA'S BEST VOCALIST AND A FEAST OF FILM AT THE MAJESTIC TO-DAY.

Upon the arrival of the S.S. Rosalind depends the appearance of Mr. Cameron Geddes, Canada's Premier Basso Profundo, late soloist with Godfrey's Symphony Orchestra. From information already posted in advance it is an assured fact that movie patrons of St. John's are in for a real musical treat. Cameron Geddes won fame by his renditions reproduced and in world wide demand by the largest gramophone record manufacturers in America. The

feature picture at the Majestic to-night is "Romance Land" starring Tom Mix and Barbara Bedford, one of the thrills is a chariot race. "Romance Land" is full of intrigue and suspense. See Tom Mix at the Masked Ball and you'll never forget him.

This picture closes with some spectacular shots of a cliff and water

Comfort Your Skin With Cuticura Soap and Fragrant Talcum

wheel. Here the star and the girl elude their pursuers by crossing in a tool bucket over the deep chasm between two cliffs. Barbara Bedford adds considerably to the picture's appeal.

The Star R.R. & B. Committee are holding a Card Tournament in the Star Hall on Monday, March 10th, at 8.30 p.m. The winners of the 8 series of Card Tournaments will be announced. The proceeds of this Tournament will be passed over to the Marine Disaster Fund. 3 Prizes as usual. Admission 50c. Men only.—mar3,21

BILLY'S UNCLE

At Least He Knows Where it is.

BY BEN BATSFORD



Berkshire Typewriting Paper

There is a
"Berkshire
Quality"
for every need.

WICKS & CO., Ltd.
Booksellers and Stationers.