



EARTHQUAKE IN UTAH.

Self Recording Apparatus—Dr. Talmage's Installation.

SINCE the announcement made in June last that an earthquake recorder had been installed at the University of Utah, institutions in this country and beyond the seas have been aroused to active interest and inquiry regarding this all-important installation.

TOO GOOD TO BELIEVE.
Every piece of china goes absolutely at cost, Fred Twissgood, the Kodak man.—Riverside Press.

here about four weeks.—Evanston News-Register.

A PLACE FOR EVERYTHING.

The STAR is prepared to execute wedding invitations in the best style of the art, and its editor is authorized to tie the matrimonial knot, having recently received his commission as justice of the peace for Riley precinct.—Riley Star, (Ind.).

RAISING THE DOUGH.

A lady by the name of Miss Baker has been in Salina this week collecting and soliciting for the Relief Fund.

PROBABLY TOO SMALL.

HARRY Neville is back from his trip to New York and will spend a short time in this city, which he says he prefers to Boston better than New York. Harry knows a good thing when he sees it.—Vernal Express.

TEAMSTERS, TAKE NOTICE.

Hon. J. N. Porter was greeting his satisfied friends between trains Monday. The gentleman expresses very little fear of the present financial hurry in the east and says that people will only remain calm there until no injury whatever to stable business interests.—Graham Guardian, (Ariz.)

eried and southernly from the locality. This fact and others of related significance have inspired the prediction that the next or, at least, a relatively early aridogenic uplift in this section of the Wasatch range will result in a break to the east from Salt Lake City, with the accomplishment of destructive earthquakes.

The foundation of this prophecy of assured calamity has been questioned by the writer.

It is a fact that slight earth tremors at frequent intervals in the Salt Lake valley, and elsewhere, originate differently, mainly as follows: (1) in minor slips incident to the rise of the Wasatch mass, or, more precisely, incident to the upward slip of some particular section of the range, since the mountain mass does not move as a whole; (2) in the slips incident to the readjustment of the monoclinic crust-blocks comprising the backbone of the range. These conditions of crustal movement in this vicinity warrant the statement that seismographic records here obtained promise results of both interest and value.

The writer is pleased to report the installation of a pair of seismographic pendulums in Utah. One apparatus is a small affair to be designated as the Omori-Bosch seismograph. It was imported from Borch, Strasbourg.

Before deciding on the purchase of this type of apparatus the writer inquired by correspondence and personal visits as to instruments for recording earth tremors now in operation in this country. The results showed but few installations, and according to the reports, a considerable number of these were of doubtful efficiency.

The Omori-Bosch seismograph includes a weight of 100 kilograms suspended by a flexible wire and sup-

ported in part by a cone and socket attachment extending from an iron column four and a half feet high, said column being firmly anchored to a massive pillar rising from a deep foundation, itself resting upon a rock and other surface contact. AttACHED to the weight is a skeleton cone of aluminum rods, which, with friction attachments, operates fine recording pen or point. The recording point rests on the surface of a paper-covered revolving drum. This paper is glued on one side, and when passed in rotation on the drum is lighted.

A reliable contact clock is electrically connected with the recording mechanism, and a metallic point projecting from the armature of an electro-magnet makes its imprint upon the smoked paper at intervals of minute duration, thus marking off a recording period from earth tremors in series of uninterrupted lines with dots indicating time intervals, disturbances are shown by cross tracings, of wide amplitude and short duration, when caused by superficial jarring of the instrument, but smaller as to amplitude and otherwise, are definitely different, if caused by an earth tremor reaching the pillar.

The equipment in the University of Utah comprises two instruments as described, they are set respectively on the north-south and east-west lines. One check made synchronous record on each of the two lines.

The sensitive mass of the apparatus is surprising. A blast from the human lungs impinging upon the side of the supporting pillar is definitely recorded. A heavy hammer blow on the end of the pillar, if delivered on the line of the main north-south axis, is traced as far as the recording pen can go, that is, stretched—makes no tracing beyond that due to a slight upward jolt of the recording pen and the return of the point, perhaps a little out of its normal position.

Each instrument is mounted on a pillar of plain concrete, extending about three feet above the floor. The entire apparatus is enclosed within a tight case with glass sides.

On July 2 a powder explosion occur-

red about three miles from the university grounds. The explosive was fired while packed in freight cars awaiting removal to the magazine buildings near by. According to report 750 bags of blasting powder and ten of gunpowder exploded. The car was blown to bits, each piece broken and twisted and the pieces were buried to great distances; houses in the vicinity were wrecked; and the force of the explosion was felt throughout the city. The seismographs recorded the surface movement as a cross tracing, distinct but susceptible of measurement only with the aid of a lens.

THE WORLD'S WHEAT CROP.

Situation in All the Producing Countries as Harvest Time Arrives.

In nearly all the important producing countries on the continent of Europe, the London Economist states, summing up the situation: "The winter wheat crop is more or less below average. France is making the principal exception. Judging from the latest official report, the French crop, winter and spring divisions together, will be well up to the average of recent seasons or above it, and decidedly better than that of last year. In Russia the winter wheat is much below the average, while the spring crop is reported to be about average. Hungary has one of the most deficient crops of wheat ever grown in that country. The Hungarian crop is officially estimated at less than 15,000,000 quarters of eight bushels, as compared with nearly 20,000,000 for last year. In Austria there is also a considerable deficiency, though a small one than that of Hungary."

"In Germany, the estimate is about 20 per cent below the average of recent years, and in Italy there is a small deficiency. The August report of the United States department of agriculture estimates the winter wheat crop at about 40,500,000 bushels, as compared with last year's 43,500,000, while the

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