DO YOU HAVE RHEUMATISM. EVERY YEAR?

You Do You Are Doctoring the Symptoms Only-Dr. Williams'

Pink Pills Cure the Disease There are almost as many ways of

reating rheumatism as there are doc

Most af these treatments are directed at the symtoms and are considered suc-cessful if they relieve the pain and stiff ness. But the blood has not been purifi-ed and the rheumatism is sure to return especially after a season of exposure to cold and dampness. The patient goes through this experience year after year and begins to think that permanent re-lief is impossible.

018

and begins to thir lief is impossible.



### (Continued from page one.)

### and important installation on the grounds of the state university. WHAT IT 18.

It is a fact that a fairly complete seismograph will soon be in operating order at the university. Perchance a brief explanation of what is meant by brief explanation of what is meant by "seismograph" may be in order. The root of the word is the Greek "sels-mos," which means earth-tremor, earth-shake, or earth-quake. Our ad-jective "seismic" is descriptive of earth-shakings in general, whether so weak as to be designated "tremors" or strong enough to be called "anakes." 'quakes.

"quakes." Any instrument or device showing earth movements is a seismo-scope, if the apparatus enables the ob-server to measure the movement it becomes a seismo-meter. The best instruments not only demonstrate and measure the earth movement, but also percent serve automatically, such an record same automatically; such an apparatus is a seismo-graph.

The etymology of these terms may become plainer by comparison, thus: Thermometers are known to us all. Thermometers are known to us all. Separate the components of the word, thermo-meter. The first part "ther-mo" (really a slightly altered form of the Greek "thermos," meaning "heat") is self-explanatory; the sec-ond "meter," is our Anglicized form of a French word meaning "measur-er," A thermometer therefore, is a heat-measurer—an instrument by which temperature changes may be measured and compared. Any de-vice merely revealing the fact of tem-perature differences but affording no means of measuring or quantitatively describing such changes would be merely a thermo-scope. If the ap-paratus not only shows but actually records the temperature changes, it would be called a thstron-graph. Note therefore these distinctive meanings. (1) "thermo-scope"—heat indicator— merely showing the phenomehon of hear variation—or temperature observed (2) "thermonetor", meaning heat variation or temperature change: (2) "thermometer" — a meas-urer of heat variation or temperature change: (3) "thermo-graph" — a re-corder of temperature changes.

By way of analogy consider the meaning of "barometer" and in com-parison therewith "baroscope" and "barograph." Our current term "barometer" really baro-meter though using makes it barom-eter with sec-ond syllable accented, means air-pres-sure measurer, therefore, "baro-scope" means air-pressure revealer; and "baro-traph", many air accenter, and "baro-graph" means air-pressure re-

corder, Returning to seismic instruments: As stated a seismograph is a revealer and recorder of earth crust move-ments. As a matter of fact, no sels-mograph is of great service unless it measures as it records the earth movement. As the term is usually understood, therefore, a seismograph is a device capable of revealing, measuring and recording as to meas-urement, all earth movements at the place where the instrument is set up.

### BEST IN THE WORLD.

The seismographic apparatus now in The seismographic apparatus now in process of installation af the University of Utah is the best obtainable. The writer speaks advisedly in saying that the equipment is the most efficient thus far set up in this country and one of the best ever installed anywhere in the world. The apparatus is of the Omoris-Bosch type, modified and improved, however, as compared with the ordinary instruments of this type.

Instruments of this type. In principle, the apparatus is striking-ly simple. Were it possible to secure a fixed point above the earth's surface— a foot or so above would be ample—s.(4) point being stationary with relation to the earth beneath, then we could affix a recording pencil to this stationary point and adjust the recording instru-ment so as to trace a record on a plane set on the earth and therefore moving as the earth's surface moves. Obviously the arrangement could be reversed—so as to place the recording pencil—in fixed connection with the earth, the receiving sheet being then in penells in fixed connection with the earth, the receiving sheet being then in immovable connection with the fixed point above the surface of the earth. As such a point—fixed and stationary,

movement--is practically unattainable, we approach the stated conditions as nearly as possible in the manner follow-



THE INSTRUMENT.

One of the pair of seismographic recorders now in process of installation at the University of Utah. The picture is from a negative made by Dr. Talmage and shows the steel pillar, the 250 pound weight, and the recording drum. The whole apparatus is mounted on a massive concrete pier.

time record is essential. Our installa-tion includes a high-grade and guar-anteed clock operated by suspended weight, not by wound spring. The pendulum is adjusted to the length re-quired at this station for one oscillation per second. The clock is now running under certified and guaranteed state-ment as to accuracy within one second per month.

inent as to accuracy within one second per month. This clock-the local standard for graded observations on running of oth-er pieces-is locared in the writer's private room, where it is under con-stant observation. It is connected electrically with the recording drums of the two seismographs in the muse-um, so adjusted as to mark the time period on each drum simultaneously. It may appear that the sensitiveness of the apparatus is too great, inasmuch as local and surface disturbances may obscure the record of earth-waves of significant importance. There is noth-ing objectionable as to this. While the

ing objectionable as to this. While th



THE TIME-RECORDER.

A standard clock with accurately djusted second-pendulum, which by electrical connection, records time periods on the seismographic drum.

note (American Journal of Science, January, 1884). "With regard to the occurrences of earthquakes in the populated parts of Utah, the facts are that during the period of civilized occupancy . . . no seismic disturbances of alarming mag-nitude have occurred, though slight tremors are very frequent within the Bonneville basin, and particularly along the Wasatch base. "Is, it not probable that the exist-ence of fracture plaues is ra-ther a safeguard than a dan-ger with respect to earth-quake disturbance? The existence breath from a pair of human lungs is sufficient to set the foundation-pier swinging, thus making a record of os-cillation, an actual earth wave welling up from beneath, records itself in an entirely different way. In short, the earthquake makes its own signature on the seismograph and no indication or the seismograph, and no imitation or forgery can escape detection. Every earth tremor is compelled to sign the record separately and distinctively. Furthermore, surface tremors due to local disturbances are not recorded, un-less of exceptional intensity. As al-ready observed, while the flick of a kerchief on the side of the massive pler records a vibration of the pler, hundreds of students running up and down the stairways in the same build-ing practically fail to affect the record. The artillery discharges at the near-by army post-Fort Douglas-show a slight surface movement but no earth wave of importance. seismograph, and no imitation with respect to earth disturbance? The existence quake of such planes in great numbers is evi-dent from the surface scarps and from the slickensides disclosed by arfrom the slickensides disclosed by ar-tlificial excavations. It would appear as probable that such planes may be really planes of easement, comparable in effect perhaps to the sutures in the animal skull, whereby movements and even fractures may be confined to very narrow limits. The resistance to crust movements in such a broken region would be lessened, and there would be less opportunity for the 'orogenic force' to accumulate destructive energy before relief would be found." wave of importance.

"Glibert has ascribed the origin of the numerous secondary scarps along the Wasatch base inrgely to earthquake displacements, and he points to a seemingly close analogy between these faults and those which formed, prac-tically under observation, in Owen's valley, California, as incident to the earthquake of 1872. Referring to these latter, he says: 'As I saw them, 11 years after their formation, they ap-peared little fresher than some of the Wasatch scarps.' Other instances of recent carthquakes and resultant fault scarps are cited, and the application of these observations to the Wasatch faults is thus expressed: 'It is legit-imate to infor that the belt of fertile valleys that follows the western base of the great mountain range of Utah is an earthquake district, and this despite the fact that since its first set-tement in 1850, no important tremors have been recorded.

WASATCH RANGE RISING."It is a matter of geological history<br/>that the Wasatch range is gradually<br/>ising, and that this rise is not unit<br/>ising, and no one can predict the date<br/>of the lengths of these<br/>is the new movement; but it is beyond<br/>uestion that such movement will take<br/>place and that when it occurs, the<br/>isit possible to<br/>predict with great confidence whill be next af-<br/>tected, but if the orogenic force is<br/>not suitible work is due to the necessity for accumulated energy to over<br/>tristible work is due to the necessity for accumulated energy to over<br/>this fault scarps may reasonably be<br/>saymed to be exempt from faulties with<br/>the same friction, then the localities with<br/>the same friction. This is lake Clips are say and the right was led to enough<br/>the stands close by an exception due to the range, where the fault<br/>section of the range, where the fault<br/>section of the range, where the fault<br/>section saymed is lose to the be largely on<br/>to are."EARTHQUAKES IN UTAH."

EARTHQUAKES IN UTAH.

"The eminent authority on Lake Bonneville has not failed to repeat this note of warning, as occasion has per-mitted. A letter from his pen ap-peared in a Salt Lake City daily in 1883; and to insure its preservation it was reprinted in a scientific journal of note (American Journal of Science, Japanews 1981)

JOHN D. ROCKEFELLER.

New York, June 28 .--- Subpoenas re company, William Rockefeller, H. H. Rogers, John R. Archbold and a num-



11

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tation I have to say, though it he largely repetition: Crustal movement which necessarily are accompanied b earth-waves are so common in the re gion immediately west from the Wa gion immediately west from the Wa-satch range that readjustment of erast blocks is demonstrated. To say that great earthquake disturbances will not take place in Salt Lake valley would be unjustified and rash, as much so as to predict with certainty that such dis-asters are assured. Should a destructive earthquake here compute trust the men who have propha-

Should a destructive earthquake here occur I trust the men who have propha-sled of its comms will not be present at the time; I wish them safe protec-tion and the satisfaction of saying, "I told you so." Locally we are on an earthquake line --rather within an earthquake zone. Earthquakes are the convulsions incl-dent to the birth and growth of mountain ranges. The majes-tic Wasatch is yet growing. Dis-turbances incident to its further rise will surely occur; but there is no proof that these disturbances will be violent or greatly destructive. The establishment of a seismograph in this region may be the means of further demonstration of earth move-ments and the laws controlling same. We hope to know more about earth-quakes some time in the near future; mache we know but little at present.

quakes some time in the near future surely we know but little at present,

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Infolução tais experience year after year and begins to think that permanent relief is impossible.
The only way to treat rheumatism is through the blood. This is the method of Dr. Williams' Pink Pills-they not on ly cleanse the blood of the impurities which cause the desease but build up and restore the broken-down system.
Mr. John Riley of Cazenovia. N. Y., says: "In my work as a blacksmith. I am exposed a great deal to changes of temperature. Some time ago I noticed that my health was breaking down. The symtoms were general physical weak-ness, loss of appetite and nervousness.
"It was evident that my brood was weak and impure. I became no better as the time went on and finally this condition of my blood with the constant exposure, brought on rheumatism. It was of the inflammatory kind and was very painful in the joints, especially of the feet and wrists. Many days I could hardly walk and suffered intense pain. I took to my bed several times for a day or so ind once for six weaks.
"A fellow blacksmith advised me to try Dr. Williams' Pink Pills and as I land ganded no help from other treatments. I decided to give them a trial. Within a reasonable time I noticed that I was gretting better and in a few weeks I was cured. That the cure is permanent is shown by my not having lost a day at my trade since then. I can trathfully say that Dr. Williams' Pink Pills have cured aneenia, after-effects of the grip and fevers, general debility and sick head-aches, dizziness, nervous prostration, even partial paralysis and locomotor alaxia. ataxia. Dr. Williams' Pink Pills are sold by all druggists, or sent, postpaid, on re-celpt of price, 50 cents per box, six boxes for \$2.50, by the Dr. Williams Medicing Company, Schenedady, N. Y. ainxia WASATCH RANGE RISING.

### HOW IT WORKS.

heavy weight is suspended from a A heavy weight is suspended from a stable subrort by means of a flexible wirk. In the case of earthcrust movement such as earth-tremor or earth-nuckes at the moment we may wish this weight is attached will move; but the weight will not be easily displaced because of its flexible wire support. On-ly long continued vibration would insure a swinging or oscillation of the heavy weight.

Such, in brief, is the essential prin-Shoh, in brief, is the essential prin-elple according to which has been con-structed the apparatus now in installa-tion at the University of Ulah. A re-called pendulum, specified as weighing 100 kilograms (a little more than 220 pounds, avordupois), is suspended by a thin and flexible yet strong and capable whre, from the top of a steel pillar about four and a half feet high. The heavy weight is kept at an angle of about 15 fegrees with reference to the vertical line of the pillar by a bar with cone and socket adjustment, the contact pieces being of the hardest tungsten steel. A skeleton cone of aluminum is attached to this weight of 220 pounds; the apex of the skeleton cone carries a contact connection which with prac-tically frictionless touch directs a fine-by balanced aluminum tracing pen. This pen point is adjusted with the greatest nicety to trace a line on the smokyd surface of a revolving drum. ITS SENSITIVENESS.

ITS SENSITIVENESS.

ITS SENSITIVENESS. The sensitiveness of the adjustment is shown by the fact that the flick of a handkerchief or the blast of the human breath against the heavy supporting pil-lars gives a record of fremor. The apparatus has been mounted on masive columns of mesonry, to provide for which the basement floor was cut away find a shaft or well was excavated beneath, this extending downward to stable and normal foundation depth. Two pillars have been constructed each weighing unward of 18 tons (this is based on contractor's statement). Two instruments have been installed, one accurately adjusted to the north-south line, the other to the cast-west line. WHERE IT IS INSTALLED.

WHERE IT IS INSTALLED.

WHERE IT IS INSTALLED. The installation has been made in the large museum room of the de-partment of geology. This situation was chosen with reference to greatest attainable distance from outside walls, and in view of affording opportunity is students and the public generally of observing the apparatus in operation. As to sensitiveness, the one instru-ment, thus far installed surprises all who observe its delicate working. It was found to be absolutely necessary that the room in which the apparatus is placed be kept-closed to all visitors and that windows and vehillators be controlled by those in charge of the work of installation—as even an or-dinary draft wan effective in disar-ranging the delecte adjustments. THE TIME RECORD.

INSTALLATION A SUCCESS.

The apparatus is in every way satis-factory; the installation is a success. We cannot produce genuine earth-quakes at the moment we would wish to observe their effects; but it is hoped that within a short time the seismo-graph at the University of Utah will be ready to receive and record any carthwave traversing this region. It is the intention to further test the instrument by producing artificial earthquake waves by firing explosives earthquake waves by firing explosives at pre-determined depths. The effect of earth surface waves so produced can then be studied in detail.

IDEAL SITE.

<text><text><text><text>

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carets.

ber of other officers Oil company, to testify as witnesses before the federal court of Chicago on July 6, were received by United States Marshal Henkel today, Marshal Henkel was unable to serve subpoenas upon Mr. Rogars and W. H. Tilford, treasurer of the company, as they are in Europe.

probable that such planes may be really planes of easement, comparable in effect perhaps to the sutures in the animal skull, whereby movements and even fractures may be confined to very narrow limits. The resistance to crust movements in such a broken region would be lessened, and there would be less opportunity for the 'orogenic Goree' to accumulate destructive energy before relief would be found." LOCAL INDICATIONS. As an addendum to the foregoing quo-

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