

Dr. James E. Talmage Tells Of Origin of Earthquakes



EXPLANATORY MAP OF EARTHQUAKE HORROR.

The map sketch herewith represents the earthquake lines of Sicily and Calabria. These districts have been devastated by many severe earthquakes, of which the most terrible, prior to the present one, happened in the year 1783. Diastrophic quakes visited the district in 1905, and again in 1907. There have also been numerous smaller quakes. The bottom of the Tyrrhenian sea, between Italy, Sicily and Sardinia, has been lowered in rather recent ages and is still sinking. The dotted lines in the map correspond to cracks in the crust of the earth, intersecting the volcanic district of the Lipari Islands. The dotted circular arc corresponds to a fissure which is believed as the source of the Calabrian earthquakes of 1783, 1905 and 1907. The volcano Etna is situated at the intersection of the radial and circular fissures.

The close of the year 1908 will be remembered in history as a time of dread calamity. Details of this week's earthquake disaster in the region of southern Italy and the island of Sicily have not yet been authoritatively reported; but such accounts as have been flashed over the globe tell a tale of destruction without precedent in the annals of earthquake horrors.

It appears that on the 28th inst. an earthquake occurred off the coast of Sicily affecting the whole of the island and the "toe of Italy's boot," which comprises the province of Calabria on the mainland of the peninsula. The shock was severe, resulting in the overthrow of buildings in all the towns situated within the area of immediate disturbance; but, as is usual with sea-coast regions affected by earthquakes, the more destructive than the passage of the seismic wave itself. The formidable sea waves, improperly called a tidal wave in the dispatches, swept up the Straits of Messina, between Sicily and Italy, submerging the adjacent land. Accounts sent out from the scene of disaster place the number of lives lost as more than 150,000, and express the fear that the final count will show double that number of fatalities. Earthquakes were followed by fires due to the violent disruption of the buildings, and then the great sea-wave rolled in to continue the work of destruction.

ORIGIN OF EARTHQUAKES.

It is natural that the dread occurrences should arouse interest and study as to the cause and nature of earthquake disturbances in general. The term earthquake is given to any violent disturbance of the earth's crust, known to earth-tremors. Any movement of the portion of the crust upon adjoining crust-blocks starts a wave, which is propagated as a wave of translation with velocity and extent of vibration dependent upon the depth and intensity of the original disturbance. Broadly speaking earthquakes may be classified as to origin in two divisions as follows:

First—Earthquakes due to a slipping of the earth-block upon another, resulting in the dislocation known to geologists as a fault.
Second—Earthquakes due to volcanic activity, comparable to an explosive distance occurring within a small and local area sometimes at a depth of miles beneath the surface.
A typical example of the first class is found in the San Francisco earthquake of 1906, the remembrance of which disaster is still painfully fresh. The earth movement in that case was the slipping of a portion of the coast range, the fault-plane being transverse for more than a hundred miles practically parallel to the axis of the range. While the destruction of property was appalling, the loss of life in connection with the San Francisco earthquake was not great as compared with the death records in many other instances.

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DR. JAMES E. TALMAGE.

Earthquakes of this class are naturally characteristic of young and growing mountain ranges. As is now very generally understood mountain ranges do not attain their full growth by a single up-lift or fold; on the contrary they are of slow growth, and at intervals the mountain mass slips upward producing a fault along the plane of fracture. Such a movement resulting in a vertical displacement of but a few feet along several miles of the range, would generate earthquakes, before which the best of man-made structures may fall as a house of cards in the current of a child's breath.

VOLCANOES RESPONSIBLE.

There is doubtless a very close relation between earthquakes and volcanoes. In the vicinity of active volcanoes, earthquake shocks are of frequent occurrence, and many instances of record show a cessation of earth shocks when the volcano breaks into eruption more vigorous than usual. On the other hand, after a violent earth movement, especially the eruption, the sea will be violently agitated, and great waves will be generated.

LISSON DISTURBANCES.

Among the most striking instances of destruction wrought by great sea-waves, the following may be cited:
In 1775 the city of Lisbon was destroyed. The earth shock was severe and many of the largest structures in the city were overturned. After the great sea-waves fully 60 feet high, rolled in, and completely overwhelmed the place. The water-wave started off by the north-west, passing on the Atlantic and was observed, though so far south as to be incapable of injury on the coast of the West Indies.

ORIGIN OF "VOLCANO."

Details of the work accomplished by the sea-wave in the Mediterranean in connection with the last great earthquake will be known later. It is reported that the smaller islands lying off the coast of Sicily have been changed to their configuration; indeed, one dispatch states that the Lipari Islands have practically disappeared, presumably as the result of subsidence. These islands have long been famous in classic verse and in the literature of science. One of the smaller islands, practically the most

southerly of the group is Vulcano and because of its igneous activity in ancient times has given the name volcano now applied to any phenomenon of the kind.
Students of the classics will recall Virgil's allusions to the island, then known as Hieria, in which the poet pictures its subterranean caverns as the workshop of Vulcan, the mythological god of fire. Dryden's translation of the passage runs as follows:
"Sacred to Vulcan's name an isle there lay
Betwixt Sicilla's smoking and Lipari,
Raised high on smokes and rocks, and deep below
In hollow caves the fires of Etna glow.
The Cyclops here their heavy hammers dealt;
Loud strokes and hissings of tormented steel;
Ares heard instead, the boiling waters roar,
And smoky flames through fuming turrets soar."

STROMBOLI.

One of the northerly isles of the Lipari group is Stromboli, a volcano that has been in almost continuous eruption for many thousands of years. In 1783 Stromboli became quiet for a short period, and immediately after its cessation a violent earthquake devastated Calabria on the adjoining mainland.
Mount Etna, the largest volcano in the Mediterranean, is reported as being in spasmodic eruption at the present time. No violent activity is looked for, however, as the earthquake itself has probably afforded present relief to the pent-up volcanic forces of the locality. If, however, the relief is not sufficient later earth-shocks will follow, or the volcanoes of the region will increase their activity, and so provide outlets for the igneous energy within.

SPLENDID RESPONSE.

In contemplating the great loss of life incident to this most recent adjustment of earth forces in the Mediterranean, the horror is somewhat mitigated if not mitigated by the splendid response of the distressed survivors. National questions and troubles of state are forgotten, and the hand of every nation is offering such aid as it can give. Battleships are hastening to the scene of disaster on missions of mercy, bearing supplies for the stricken people. With characteristic promptness and liberality our own great nation is among the leaders in the work of succor. This is a pretty good family to which we belong—this great human family of ours.

JAMES E. TALMAGE.

WEATHER BUREAU ON STREET.

The United States weather bureau is experimenting with what is known as weather kiosks in Washington and Philadelphia. If it is successful, the device will be used in other cities, and of course in Salt Lake. These kiosks are similar to those now in use in Berlin and other large German cities, the idea being to supply meteorological and other large German cities, the idea information in popular form. Behind curtained windows of the kiosk will be copies of the daily weather charts, forecasts issued by the weather bureau, maximum thermometer and thermograph for recording temperature and rain gauge. There will be no barometer for it is the wish of the department that only meteorological facts in their simplest form shall be shown. Among other things expected of these kiosks is that they will ruin the reputations held by many cities of the United States, especially Washington, for excessive summer heat, many records of this kind having been established by inaccurate thermometers being hung outside stores and other buildings not conducive to correct readings.

THEN AND NOW

Complete Recovery from Coffee Ills.

"About nine years ago my daughter, from coffee drinking, was on the verge of nervous prostration," writes a Louisville lady. "She was confined for the most part to her home.
"When she attempted to trip down town she was often brought home in a cab and would be prostrated for days afterwards.
"On the advice of her physician she gave up coffee and tea, drank Postum, and ate Grape-Nuts for successive summers' heat, many records of this kind having been established by inaccurate thermometers being hung outside stores and other buildings not conducive to correct readings.
"She has recovered. I am a member of three charity organizations and a club, holding an office in each. We give Postum and Grape-Nuts the credit for her recovery."
"When a House."
Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville," in page.
Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.



MRS. MARGARET BURCH GOFF OF SPRINGVILLE, 100 YEARS OLD LAST WEEK.

Mrs. Margaret Burch Goff of Springville celebrated the anniversary of her hundredth birthday on Christmas day, being born Dec. 25, 1808, in the town of Unidella, Del. She is the daughter of George Burch and Sylvia Haskins. Her grandfathers fought in the revolutionary war, and her father was born on a wood shed while his mother was escaping from the enemy.
Mrs. Goff joined the Church of Jesus Christ of Latter-day Saints in the year 1831 in Pennsylvania, being baptized by Elder Hoshah Kilbren. She has been married three times and is the mother of eleven children, but three of whom are living. She has a son, eighty years of age who is now residing in California. Mrs. Goff emigrated from Illinois to Utah in the fall of 1850 and lived in Provo for 39 years. For the

Y. M. C. A. UNDERTAKES TO RAISE LARGE SUM

Urgent Need of Funds Confronts Local Institution—Vigorous Campaign Begins.

The Y. M. C. A. management is about to begin a financial campaign to raise funds to wipe out its \$135,000 debt the interest on which it has been found is troublesome to meet. In fact the association is one year behind in its interest payments on the bonded debt incurred in raising funds with which to erect and complete its building now valued at \$269,000. The cause of the difficulty is the recent panic, which reduced the revenues materially.
The directors and general secretary have begun an earnest search for aid. They have found one man willing to be one of five to put up \$10,000 each to help out, while another man proposes to be one of ten to subscribe \$5,000 each. This will leave \$25,000 to be raised, which it is believed can be done.
The Y. M. C. A. was first organized here in 1878, through the efforts of the international committee, the first meetings being held in the federal court room in the Wasatch block. The association had but a struggling existence for several years, finally lapsing into a state of coma from which it was revived late in the '90s. Rev. Willard Murphy took hold and did better by it, nearly getting consumption through overwork. Then John T. Axton was made general secretary, and the association was moved from over an east Second South street saloon to more respectable quarters in the Jennings block where it remained until Axton entered the army. Then the present secretary was secured from Portland, and after a vigorous campaign for funds, the present structure was built and the work immensely developed, especially in the educational lines. The result has been that while Salt Lake stands sixth in the population of the United States, its Y. M. C. A. stands twentieth in the association list of the country. The present membership is 1,200, with largely attended night schools, and has so directly installed itself in the local good will and esteem, that it is not believed the Salt Lake public will allow the institution to go by default. The official roster includes: William V. Rice, president; John Deris, vice president; Oscar L. Cox, general secretary; Charles G. Plummer, recording secretary; F. A. Tibbitts, treasurer; James E. Felt, auditor; Frank B. Stephens, attorney; W. W. Armstrong, chairman finance committee; W. Mont Perry, chairman educational work; Thomas Weir, chairman of the Y. M. C. A. Young Men's Association; F. A. Druehl, L. Terry O. A. Hornold, L. C. Miller, Russell L. Tracy, Stephen H. Love, M. H. Walker, C. F. Overfield, E. A. Wall, U. R. Pearson, William H. Tibbitts, Lafayette Harshol and J. E. Cosgriff.

WOMEN HELD FOR ROBBERY.

Two women, one of them colored, are locked in cells at the city jail on the charge of highway robbery. They were arrested early this morning by Patrolmen McCormick and Woods. They gave their names as May Smith, 27, and Minnie Thomas, 28, colored. They are accused of robbing Herman Anderson who resides at 128 Second East street. The women stopped the man and when he tried to get away from them one of the women drew a knife and slashed Anderson across the hand and attempted to cut him in the head. Anderson gave the police a description of the women and they were soon under arrest.



MRS. ANNIE BERRETT BESS.

MORE BOUQUETS FOR THE CHRISTMAS NEWS.

James L. Tryon, assistant secretary American Peace society, Boston—The edition is a fine one.
Intermountain Catholic—The Christmas "News" published last week, was a credit to Salt Lake. Full of interesting news regarding the intermountain states, with fine illustrations and special articles it would do honor to any city in America.
Garfield Globe—The Christmas edition of the Deseret Evening News, six sections and a handsome cover page, was certainly a gem. Garland received a good article and cuts of the town board, Elder Bros. block and the Garland Mercantile company appeared with the write-up. The edition consists of 101 pages.
Park City Record—The Christmas edition of the Deseret News, Salt Lake, was published last Saturday and in size and elegance throughout, excels any other newspaper line in Utah, and will average well, in fact, with the special editions anywhere issued. There are 32 pages in the edition which deals extensively with Utah, her progress and prospects. The industry of Idaho being also treated to considerable extent. In typographical make-up, illustration and print, exclusive of the splendid reading matter therein contained, the Christmas "News" is a gem, a monument to

STAUNCH FRIENDS OF PE-RU-NA.



Grandmothers and Grandfathers Who Believe in Per-ru-na.

"I CAN recommend Peruna as a good medicine for chronic catarrh of the stomach and bowels. I have been troubled with it severely for over a year, and also a cough.
"Now my cough is all gone, and all the distressing symptoms of catarrh of the stomach and bowels have disappeared.
"I will recommend it to all as a rare remedy."—Mrs. F. E. Little, Tolono, Ill.
"I HAD catarrh of the stomach, bowels and lower internal organs. Had a great deal of pain in my right hip, which felt like rheumatism. Also, pain in my internal organs. The water was highly colored, my back was weak, was constipated, and very restless.
"I commenced to take Peruna according to directions, and began to improve. I have taken ten bottles of Peruna and think I am cured."—Mr. W. C. Hemphill, Louisville, Miss.
"I CAN recommend Peruna as a good medicine for chronic catarrh of the stomach and bowels. I have been troubled with it severely for over a year, and also a cough.
"When she began your medicine she was not able to be up all day, but now she is helping with the work and at present has gone on a visit. Her health is improved in general. No discharges. Good appetite. Sleeps well and looks well."
"BY following your instructions and taking your Peruna and Manalis I am cured of catarrh.
"I had catarrh for twelve years and quite a bad cough so I could not sleep nights. I do not have any cough now. If I feel anything in the throat I take a swallow of Peruna and I am all right."—Mr. W. D. Smith, Sr., 2440 Forest St., Fort Huron, Mich.
Ask your Druggist for a Free Per una Almanac for 1909.

LEAVES FROM OLD ALBUMS.



MRS. CLARISSA SMITH WILLIAMS.

The above photograph of Mrs. Clarissa Smith Williams was taken in the late 'seventies' shortly before her marriage. Since that time Mrs. Smith has been actively engaged in Church work, especially in connection with the Relief society in which she has served in various capacities—first as secretary of the Seventeenth ward. She is at present treasurer of Salt Lake stake; after that as president of the Seventeenth ward society and as president of the Salt Lake stake. She is at present secretary of the general Relief society, and is interested in all branches of human and regenerative work.

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