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G. F. Hutcheson Optometrist

Earthquake Map Made By Coast Scientist

PALO ALTO, Cal., Oct. 23.—Scientists in the next few years may be able to predict earthquake shocks as they now forecast storms, according to the belief expressed by Professor Bailey Willis of Stanford. Professor Willis has just completed for the Seismological Society of America an earthquake map of California on which is outlined the geographical faults along which disturbances are likely to occur. Data regarding earthquakes made available to the expert, or the novice by merely glancing at the map, was accumulated by Professor Willis after years of study of California's geographical and subterranean formations. In bringing this data to a point of correlation where it may be "mechanized," Professor Willis has come to the conclusion that while earthquakes, like storms, cannot be prevented, nevertheless, unlike storms, their effects can be mitigated. Professor Willis points out that in certain sections where violent storms are to be expected, construction engineers may take steps to resist their effects. The most modern buildings cannot entirely resist earthquakes, as the recent Japanese disaster made evident; but "fault lines" can be avoided in building and their presence and certain effect can be recognized. Professor Willis believes, therefore, that his map may be of considerable value to engineers in planning structures in various parts of the State. He believes that smaller charts soon will be evolved by local scientists for other earthquake areas. In explaining that earthquakes are caused by geological "faults," Professor Willis says: "A fault is a crack in the rocks, usually miles long and penetrating to a depth where they are firmer and more elastic than they are near the surface. An earthquake is an elastic shock which originates on a fault where the rocks have been held by friction, under increasing strain, until they yield. Slipping suddenly, like an elastic spring, they send vibrations through the globe. Attention has been called on the earthquake map to certain rifts on which shocks of greater or less violence may be anticipated. The rifts are facts, and their movements are as certain as thunderstorms in New York in early Summer. Some day we may be able to keep an accurate record of the elastic vibrations of the earth's crust along danger lines and thereby forecast shocks. The earthquake map is intended to call attention to certain natural and unavoidable conditions in which there is danger, and to inform the public and promote public safety through enlightened public opinion. The dangers herebefore have been greatly exaggerated by ignorance and intensified by negligence."

THE ATMOSPHERE. In 530 B. C. Anaximenes referred to the air as a deity, the primor cause of everything. Galileo, in 1610, discovered that its pressure was 15 pounds to the square inch. Torricelli invented the barometer in 1643.

TIMBER FOR JAPAN. The Provincial Government has arranged with the Timber Industries Council of British Columbia to supply a cargo of lumber at cost and is now negotiating with the Dominion Government for means of transportation across the Pacific to the stricken cities of Tokio and Yokohama. An emergency shipment of 125,000 feet of dimension lumber and ship lap is being put into the hold of the Canadian Government steamship Canadian Rodiahaon for immediate carriage to Japan as a gift of the British Columbia Government. Victoria sawmill operators have received inquiries for two million feet of lumber for Japan.

The Canadian Red Cross Society

AN ADDRESS PRESENTED TO THE CENTRAL COUNCIL OF THE CANADIAN RED CROSS SOCIETY. A few weeks ago the sorrowful sympathy of the whole world was aroused by the news of the terrible earthquake in Japan which razed to the ground the two great cities of Tokio and Yokohama. This awful catastrophe—the greatest recorded in history—brought death to more than one hundred thousand men, women and children, rendered two million homeless, stopped the industry and commerce of the whole district, and left suffering, poverty and distress that will be felt in the country for many years to come. With established readiness comprehensive action for relief was taken by two great National bodies of Japan, even before the tremor of the earth had ceased, and while the cries of the sufferers still oppressed the air. These bodies were the Government of the Country and the highly organized and efficient Red Cross Society of Japan. We may get a clearer idea of the extent and character of the disaster through a knowledge of the Governments' immediate action which included: 1.—Martial law. Four Army divisions were disposed at important points. This made it possible to begin reconstruction at once. Engineer Corps were blasting, restoring telephone and telegraph service, removing debris and building bridges. 2.—Immediate appropriation of \$12,500,000 for Relief. 3.—Ordinance against profiteering obeyed with loyalty and pride by the people. 4.—Ordinance against creating or circulating false information strictly enforced. 5.—Moratorium of 30 days. Nippon Bank announced acceptance of stocks and bonds as collateral up to \$50,000,000 guaranteed against loss by the Government. 6.—An established organization for re-construction of the capital city with a force of experts as advisors. The outstanding features of the situation were the admirable efficiency of the Army and Navy, the loyalty, obedience and courage of the people, and the enlistment of captains of industry regardless of party, under the General Relief Bureau.

The Japanese Red Cross. The action of the Japanese Red Cross was none the less prompt and effective, a detailed account of how the Society went into action when the awful disaster visited the Country will form one of the most illuminating records of voluntary effort anywhere in the world. The Society was called upon in a great emergency on September 1st, and by the afternoon of that day, while the quake still continued, it had established two dispensaries at Tokio and one at Yokohama, as soon as the reserve doctors and nurses arrived. Soon after that, it established 21 additional dispensaries at Tokio and 18 at Yokohama, each with two to five doctors, 13 to 115 nurses, and one to six clerks. These dispensaries were located at the centres of refugee concentration. They were all conveniently situated and amply supplied. They treated a total of 87,000 patients in Tokio and 33,000 in Yokohama. A total of 85 doctors was engaged, 443 nurses, and 135 clerks and messengers, with 172 members of the headquarters staff.

The main Red Cross Hospital in Tokio was expanded from 300 to 900 beds without confusion. In addition, the Japanese Red Cross has constructed since the disaster and is operating four complete emergency hospitals with 300 beds each, two maternity hospitals with 200 beds each, one children's hospital with 100 beds, and two hospitals for contagious patients each containing 250 beds. The hospital personnel for these number 168 doctors, 52 apothecaries and 801 nurses. Yokohama is planning a 300 to 500 bed hospital as its population returns. The Japanese Red Cross has taken over an emergency hospital set up by the Army and operated by Army and Philippine personnel. The conditions of patients in all these hospitals, even where most crowded, is described as excellent with enough doctors, nurses and ambulance service. The work of the Japanese Red Cross supplements the stupendous task of the National Relief Committee which is now feeding 750,000 in Tokio, and 200,000 in Yokohama. This Relief Committee will act as a distributor of all supplies, domestic or foreign. The distribution is gratis until the emergency period passes.

Word Wide Sympathy. But quick and efficient as these other measures were and are, much more must be done for months to come to combat disease and to alleviate suffering, hunger and all the other ills inherent in an event that came so close to the destruction of the communities involved. Knowing the extent of the disaster, and realizing the meaning of the suffering it brought, the impulse to express sympathy and render assistance has been spontaneous and world wide. In the family of Nations one has been stricken by a stupendous disaster which has taken an appalling toll of lives, homes and the means of livelihood. The suddenness of nature's convulsions which made wreckage of human lives and homes put a feeling of awe and sympathy into all hearts.

Action by Canadian Government and Red Cross. Having knowledge of the catastrophe and sensing the earnest desire of the Canadian people to aid a stricken neighbor, the Dominion Government, in addition to general



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ous action on its own part, requested the Canadian Red Cross, through its Dominion-wide organization to make an appeal to the people for funds with which to mitigate the suffering resulting from this awful calamity. It issued a proclamation through the Governor-General appealing to and inviting the people of Canada to co-operate heartily and "to give their sympathetic attention and support" to the Red Cross Relief Fund for Japan. Accordingly, the Canadian Red Cross Society in and through its various Provincial Divisions is carrying on the appeal from the Atlantic to the Pacific and judging by the meeting of the Central Council, the appeal is receiving general support in all the Provinces of Canada. The contributions from Canada will be sent mainly in the form of suitable supplies and a portion in cash to be devoted to the relief and care of children who are surviving victims of the disaster.

Extent of the Need. A fair idea of the extent of the disaster and forthcoming needs may be gathered from the following information now in the possession of the Canadian Red Cross Society. The area intensively affected by the disaster is about 100 miles long in the two great cities, Tokio, the National capital, and Yokohama, the commercial capital, scarcely a building is left intact; besides this many towns and villages in outlying prefectures, were also destroyed. The Japanese Relief Bureau officially report that four Provinces so devastated that more than 2,000,000 people are homeless and destitute and depend solely upon Government and voluntary assistance. Over 600,000 houses have been destroyed and more than one

and a half million people will have to be provided with shelter. This vast population also requires clothing and subsistence during the approaching winter. If supplies be shipped promptly much can be done to mitigate the suffering and forestall in part the hardships of winter. The Japanese Government will distribute free relief to those actually destitute, but it is most desirable not to pauperize the sufferers. The Government intends to sell supplies at a cost to those who can afford to pay and will use the proceeds for further relief under the Official Relief Bureau. The Japanese authorities are displaying great courage, energy and determination, and a General Relief Bureau, non-partisan in character is constituted to face the crisis and is doing everything possible.

ALWAYS POPULAR PERSON-AGE. Diogenes was a famous Greek cynic philosopher, who lived much in Athens, noted for his contempt of the common conditions of life and for his caustic speech. It is told that he lived in a tub for a time, and that once he went about at midday with a lighted lantern in search of an honest man.

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IN MEMORIAM

MRS. FRANK SMITH
On October 10th, sadness came to the entire district of Cumberland, when it was learned that Mrs. Frank Smith had passed away after a delayed illness. Some three years ago she had a severe attack of the "flu" from which she never fully recovered. In May last heart complications developed and since then, despite all that medical skill and kindly ministry could do, she gradually weakened till the 10th, when the end came rather suddenly. The funeral service was held on the 13th, conducted by her pastor, Rev. Colin W. MacNeivin, and her remains laid to rest in the cemetery at West River church of which she had long been a devoted member. The very large gathering of people gave strong testimony to the large place Mrs. Smith held in the hearts of all, and now she will be greatly missed not only in the home, but in the whole community. She leaves to mourn one who was a most devoted husband and eight sorrowing children, five boys and three girls. The boys are, James, at West River, Becher in Montana, Leslie in Regina, and Iven and Bruce at home. The girls are, Mrs. McEachern in Idaho, Mrs. McMillan in Massachusetts and Mrs. McRae in Alberta. We join with those who mourn her loss and though we mourn, we shall also remember that "God always has an 'afterwards'." He keeps the best in store, and we shall see it hath been so. When we reach yonder shore: The cross, the shame, He once displayed. For the joy set before, And as we follow we shall find Death is life's opening door!"
Sweeping assertions are liable to raise clouds of misunderstanding.
GERMANY TO-DAY.
Sixty per cent. of all the German magazines which were published before the war and about 45 per cent. of the newspapers have ceased to appear.

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