

SCHURMAN'S STATEMENT. ACTION AT CORNELL.

Cause of the Epidemic, and Precautionary Measures.

Ithaca, N. Y., Feb. 23.—In reply to a request for an authoritative statement concerning the origin of the typhoid fever epidemic as it has affected Cornell University, its cause, the number of cases and deaths and the steps that have been taken to remedy existing conditions at the university, President Jacob G. Schurman has given out the following:

The cause of the epidemic of typhoid is generally believed to be contamination of the water of Six Mile Creek, which, along with Buttermilk Creek, furnishes the water supply of the city of Ithaca, by a band of laborers who were engaged in the fall and early winter in the construction of a dam in that creek for the Ithaca Water Company. This belief is confirmed by an investigation, which, on behalf of Cornell University, has been made by Dr. A. A. Moore, our bacteriologist, and Dr. E. M. Chamot, our toxicologist, and which they have just completed.

They say a study of the various ways by which typhoid bacteria are disseminated would show that two of the channels of dissemination, namely, milk and water, for sources of infection does not show or give reason to suspect that milk has been a source of infection. This leaves us with but one possible source for such a widespread infection, namely, the drinking water. The distribution of the cases of typhoid fever shows that the disease has not existed in (first) families using water from Fall Creek exclusively; (second), in families using water for drinking purposes spring or other water brought to the city; (third), among those who have used well water exclusively for drinking purposes, and (fourth) among those who have used for several months past boiled city water only for drinking purposes. Thus Cornell University, the campus, portions of the flats not having city water, and West Hill are exempt. Fever cases have been restricted, with possibly rare exceptions, to those using city water for drinking purposes without first properly filtering or boiling it.

We are informed by the Water Works Company that there are three distinct zones in the city, one receiving water from Six Mile Creek exclusively, one from Buttermilk Creek exclusively, and one mixed water of the two streams. We find a large number of cases on East Hill, where the water supply is from Six Mile Creek. There are, however, some cases of disease in the area alleged to be supplied by Buttermilk Creek water. Many of these cases are people who spent more or less of their time in the city, and who were not easily become infected with water there.

Drs. Moore and Chamot, however, assert that this hypothesis of water contamination which leads to the dam is not consistent until it can be demonstrated that at least one of the laborers had suffered from typhoid fever, and as all of the laborers have returned to their homes in and about New York City, this link in the chain of infection cannot be supplied. The water supply of the university comes from Fall Creek, which is a different source from the water supply of the city. No cases of typhoid fever are known to have occurred among those who used exclusively the water supply of the university campus. No person at Sage College, in which more than two hundred women students live on the campus, and which is supplied by this water, has had typhoid fever, and no case of typhoid has occurred in the families of professors living on the campus. Typhoid fever has developed among those students only who live in other portions of the city, which are supplied by the Ithaca Water Company, with water from the Six Mile Creek, and from Buttermilk Creek.

Cornell University differs from most of the other large institutions of learning in having no dormitory system of its own, but the students live in private houses situated over all parts of the city. There are this year about 2,700 students of Cornell University resident in Ithaca. Of these at least one-third have returned to their respective homes since the outbreak of the fever epidemic, the university authorities having advised all students who had the least illness or were apprehensive of illness to leave the university, and many have been imperatively summoned by their parents.

Of those that remain in the university seventy-eight are on the sick list in Ithaca. Of this number fifty-seven are confined in the university infirmary and its annex, and twenty-one are ill either in their own rooms or in private hospitals in the city. The majority of these patients in the university infirmary and its annex have typhoid fever, mostly mild, though some are serious and a few critical. Of the twenty-one who are in private hospitals seven are recognized as typhoid patients, of which number one or two are serious. The fifty-seven sick students in the university infirmary and its annex are cared for by their friends. The condition of all students is reported by the president of the university in daily letters to their parents.

Thus far there have been eleven deaths among students in Ithaca due to the present epidemic, as follows:

- FRANCIS H. C., freshman, Philadelphia.
EUGENE W. W., freshman, Rochester, N. Y.
MAHER W. E., freshman, Brewster, N. Y.
FRIMB, E., freshman, Huntington, N. Y.
SCHLESINGER, C. J., freshman, Hackensack, N. J.
SCHROEDER, H. A., freshman, Ithaca, N. Y.
SCHUMARD, A. G., graduate, Bethany, Mo.
SPENCER, Miss C. D., sophomore, Jasper, N. Y.
SWARTZ, F. B., senior, Marlboro, N. Y.
WESTON, N. G., A., sophomore, New York City.
The university authorities have made arrangements to enable students to secure pure water daily inspected. Artesian water has been placed in all the University buildings, where students may draw it freely. Distributing stations have also been established both on and near the campus, and students have been officially informed that they may have pure water in their quarters at the expense of the University secured from 204 boarding house keepers in Ithaca the following pledge:

I hereby agree that I will not serve or permit to be served on my table or at my table, or in my house or in any city water except it be boiled; that I will not serve uncooked vegetables which have been used for serving food and drink shall be washed and rinsed in boiled water, and, in general, I will take every precaution against the spread of typhoid fever.

Every student, however, has been warned that he must take precautions to protect himself, and all have been urged to see to it that the above pledge is lived up to. The university has also offered, in case there are any who do not feel able to trust their present boarding house keepers, to open up a men's dining room in Sage College, to accommodate one hundred.

To insure pure water for the city and university not later than September 1, this year, the board of trustees have authorized the expenditure of \$150,000 for the installation of a complete and adequate filtration plant.

J. G. SCHURMAN.

J. VERNON, '06, DIES IN BROOKLYN. John Vernon, son of William Vernon, of No. 136 Putnam-ave., Brooklyn, a member of the freshman class at Cornell University, who fell a victim to the epidemic of typhoid fever in Ithaca, died on Saturday at his home here. He returned to Brooklyn when first attacked by the disease, two weeks ago. Mr. Vernon was a member of the Bushwick Avenue Methodist Episcopal Church, where the funeral will be held to-night. At college the young man was prominent in the work of the Young Men's Christian Association.

Several of them have come home with slight illness, fearing the effect of the Ithaca water on their weakened systems.

STUDENT DIES AT GOVERNEUR. Waterbury, N. Y., Feb. 23.—George Hill, of Gouverneur, twenty-two years old, a student at Cornell, class of '05, died last night of typhoid fever, contracted at the university. Mr. Hill returned to his home a week ago, ill with the fever.

W. J. REINHART, '03, DIES AT PATERSON. Paterson, N. J., Feb. 23.—(Special.)—William Jeffers Reinhart, twenty-two years old, only son of Dr. J. A. Reinhart, principal of the High School here, died last night from typhoid fever, after an illness of ten days. He was a member of the Cornell University, where he was a member of the Cornell University. Three weeks ago when the news of the outbreak of typhoid fever was published, Dr. Reinhart wrote to his son advising him to return home until the period of infection had passed, but the son replied that he was in good health and was anxious to remain at his studies. Ten days ago Dr. Reinhart

THE OLD RELIABLE



received a telegram stating that his son had been taken suddenly ill and was on his way home. He was extremely ill when he reached home, and never rallied. Mr. Reinhart was a graduate of the Paterson High School, in the class of '95. After leaving the High School he spent four years with the Edison company here, and then entered Sibley College, Cornell, where he was a member of the Cornell University. He made rapid progress in his college studies. He was vice-president, financial secretary, and trustee of the Cornell Christian Association. The funeral will take place on Wednesday afternoon at 3 o'clock, at the home of his parents, No. 534 East Twenty-seventh-st., Paterson.

HOME NEWS.

PROMINENT ARRIVALS AT THE HOTELS. ASTOR—State Railroad Commissioner Frank M. Baker, of Oswego. FIFTH AVENUE—Caldwell Washburn, of Minneapolis. GRAND—Captain W. M. Blow, U. S. A., and Lieutenant V. C. Herbert, U. S. A. HOFFMAN—Judge W. J. Wallace, of Albany. HOLLAND—T. L. Shaw, of Boston. IMPERIAL—Colonel John S. Baird, of Georgia. HATTAN—Jerry Cray, of Warren, Penn. WALDORF-ASTORIA—Sir John Robertson, of London.

WHAT IS GOING ON TO-DAY.

Sportmen's Show, Madison Square Garden. Bible Teachers' Training School, chapel of Fifth Avenue Presbyterian Church, 9:30 a. m. to 12:45 p. m. Teachers: Miss Palmer, Miss Holmes and Dr. White. All welcome. Board of Aldermen, City Hall, afternoon. Greater New York Democracy General Committee meeting, Cooper Union, evening. Meeting of the Retail Cigar and Tobacco Dealers' Association, No. 245 East Fifty-sixth-st., 8 p. m. Meeting of the Linnean Society of New-York, Museum of Natural History, 8 p. m. Annual meeting of the Legal Aid Society, United Charities Building, 8:15 p. m. Dinner of the Society of the Cayugas, Hotel Manhattan, evening. Dinner in honor of John P. Windolph, Rotenbergs Circle Hotel, 7 p. m. Meeting of the Seafarers' Association, Yacht Club, No. 100 West Forty-fourth-st., 8:30 p. m. People's Institute lecture by the Rev. W. Hudson Shaw on "The Early History of Florence," Cooper Union, 8 p. m. Free lectures of the Board of Education, 8 p. m.—Amity House, No. 312 West Fifty-fourth-st. "Westminster Abbey and the Coronations of England." Miss Anne Osborne Moore, Cathedral School Hall, No. 111 East Fifth-st. "Survival of African Music in America." Mrs. Jeannette R. Murphy, University Settlement, corner of Eldridge and Rivington sts. "Three Years of Home Life." Mrs. Helen B. Schoonenberg, Realty Hall, Ogden and Merriam apts., High Bridge. "Literature of the South." Mrs. Emily F. Gregory, School No. 173, One hundred and eighty-third-st., between Third- and Fourth-avenues. "The Treatment of Shock, Bleeding, Burns, Exposure to Cold and Frost Bites." Dr. Frank Alfred Lawrence, Church of St. Cornelius, No. 423 West Forty-sixth-st. "Canada from Coast to Coast." Howard Wilbur, Emma American Museum of Natural History, 124 and 126 East Eighty-eighth-st. "Sinner's Story." A. North, 11 East Eighth-st. "Twenty-fourth-st. Church." 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