nitrogen, albuminoid ammonia, oxy. gen of permanganate consumed, etc., drawn by the application of such standards are arbitrary, and may be misleading. Two entirely legitimate directions seem to be open for the useful examination by chemical means of the organic constituents of drinking water namely, first, the detection of very gross poliution, such as the contamination of the water of a well by accidental bursting or cruebing of draine, etc., and secondly, the periodical examination of a water supply, as of a great city, to order that the normal contraction of a water supply of a great city, to order that the normal contraction of a water supply as major usual character of the water having been yreviously ascertained, any suspicious changes which from time to time may occur shall be promptly detected and their cause in-Vestigated.

"In connection with this latter application of water analysis, there beems to be no objection to the catablishment of local standards of purity' for drinking water, based on sufficiently thorough examination of the water supply in its usual condi-

Buck's Hygiene, Vol. I, page 308, states that 'in view of the impossibili-ty of saying exactly what is and what is not harmful, any considerable de-parture from the normal character of the water in a given locality should to regarded with suspicion. It is true that various students of the matter of water supply bave formulated stand-ards which a water may not overpass. They are, however, only of relative

Prof. Nichols of the Massachusetts Institute of Technology holds that an absolute standard for wholesome and uwholesome water as maintained by Wanklyn, "is impracticable, and would exclude many waters which are would exclude many waters which are known to be free from contamination known to be free from contamination to harfectly well suited for and to be perfectly well suited for domestic use." Dr. Smart of the U. B. army maintains that water may show albuminoid ammonia as high as .25 part in 1,000,000 parts and still be regarded as harmless provided the or-Ranic impurity is of vegetable origin.
It has been found that mountain streams have yielded to an analysis as much as .5 part of albumined ammonia in 1,000,000 parts of water with out being contaminated with animal matter to which sanitary officers are most opposed. I have no doubt that some of our mountain streams before canyons would show a still greater smount of albuminoid than that given above, from the fact that there is much vegetation in the mountains over which the water runs undergoing decomposition. Now, is this vege-table matter detrimental to health? Nichols boids that "it must not be understood that the presence of an excess of vegetable matter is absolute. ly a matter of indifference. Waters thus obarged may be the cause of diseases of the digestive organs with-Whether they may also ont doubt. Whether they may also cause any of the so-called zymotic diseasce or give rise to specific diseases of peculiar type, is doubtful."

In a discussion of chemical versus bactereological examination of potable water in the Journal of the American Chemical society, W. P. Mason states

that "sewage, as it occurs in practice, ooniains an immense deal of material other than that productive of disease. and it is upon just this comparatively harmless, but constantly present material that the chemist relies for the indication upon which he bases his opinione. "He is unable to say whether or not a sewage-laden water is disease bearing on any particular date, for to bim all sewage lealike, but be conlemns the water for the reason that. although it may be tharmless today, it is impossible to predict what may its condition tomorrow. The idea berein conveyed is not that the animal organic matter is of itself productive of disease, but that its presence in the water indicates that there is seepage and bence the water may become contaminated at any time with disease germs. Animal life the source of this animal refuse may become at any time infected with contagious diseases. it be determined without doubt that there is no disease germs in water in which there is vegetable organic matter, then it is doubtful ludeed as to whether such organic matter will produce contagious diseases, and there would have to be considerable more organic matter present than Wanklyn gives so the limit, to ren-der water nowholesome. Applying all that has been thus far stated re garding water to ice, the conclusion may safely be drawn that ice containing considerable vegetable matter may be used for refrigerating purposes where it is not melted and mixed with tood without the slightest danger producing digestive disturbance let alone contagions diseases. According to my judgment no one

should condemn water on the results of a chemical examination alone. The water should be collected by a competent chemist and the surroundings should be corefully inspected. The tormation and the soil through which the water runs should be examined and the normal state of the water ad-Jacent determined. Ice is somewhat different from the wal mineral matter in the water water. more or less removed during the freezing of the water. Decease germe if present may be destroyed and the use of the ice may be perfectly safe to use when the water from which it is frozen may be more or less dangerous to use. In my opinion to avoid losses to men engaged in the toe business, the ponds surrounding should be in-spected in the fall and the water to be used he examined and pronounced good before it is turned into the ponds. Investigations should be made in the proper time and in the proper way that hoth the producer and the purchaser may have justice as a Xact as it le possible to meet out. Along with chemical examinations, microsoropical bacterological examinations should be made.

Respectfully, J. T. KINGSBURRY.

## DAVIS STAKE CONFERENCE

The quarterly conference of the Davis Stake of Zion was held at East

First Presidency, Elder B. H. Roberts of the Council of the Seventies, the Stake Presidency, members of the High Council, Bishoprics of the various wards and a large attendance of the Baints. On Sunday there was also present Eider John Nicholson of Sait Lake and Elder Charles F. Mid-dleton of the Weber Stake. On Saturday President John W.

Hess gave a very favorable report of the Stake after which President Q. Cannon, President Joseph F. Smith and Elder B. H. Roberts addressed tne confrence speaking on the duties of the Latter-day Saints and giving

fatherly coused to all.

On Bunday the Sunday school of East Bountiful under the direction of Superintendent Charles R. Joues convened at 9 c'clock a.m. After the opening exercises President George O. Cannon, President Joseph F. Smith and Eider John Nicholson talked to the children showing them the great henefit and blessings to be derived from keeping the Word of Wiedom urging them to be diligeot in acquiring useful knowledge; to be obedient to their parente; to be pure and virtuous, shunning had company. It was a rare treat to the obliden (as well as the older persons) to listed to the good instructions given by the servants of God, the presence of the visiting bretbren was greatly appreciated the counsel annk deep into the hearts of those that. listened unto them and it is hoped bring forth good fruit, the Bunday sebool was dismissed at 10:25 and conference reconvened at 10:30 a.m.

President Joseph F. Smith occupied the time of the morning session. Resd from 'he Doctrine and Covenants, sec-

lon 132, verse 8.

Benold, mine house is a house of order, saith the Lord God, and not a bouse of contusion." President Smith Smith spoke with much force and plainness upon the principle of

The general and Stoke authorities were presented and unautmously sustained at the afternoon meeting after the openiog exercises and the admin-

istering the Bacrament.

Elder John Nicholson and President Cannon addressed the congregation expressing their pleasure in meeting with the mainte in a conference capacity. Spoke of the feeling that prevailed to a large extent amongst the Salats to ignore the counsels of the servants of God and to become a law unto themselves. Exhorted the Sainta the commandments of God.

Elder Eiwin Rice of Bouth Bountle ful was sustained by the conference toreceive the ordination of a Patriarch to which office he was ordained by President G o. Q. Cannon.

There is much credit due the East Bountiful choir, under the leadership of Edward Thomas, for the axcellest singing and music during conterence. Conference adjourned for months to be held at Centerville. three

JOHN J. EMITH, Stake Clerk.

Rock Springs, Wyoming, Miner: James Noble went on Monday even-March 18th and 14th. There were present President George Q. Cannon and Presidents Joseph F. Smith of the up and return to Scotland.