NOTICE OF SPECIAL STOCKHOLDERS' MEETING OF THE PEOPLE'S EQUITABLE CO-OPERATIVE ASSOCIATION.

NOTICE IS HEREBY GIVEN THAT A special meeting of the Stockholders of the People's Equitable Co-operative Association will be held at the office of said Association on Wednesday, the 28th day of December, A. D. 1894, at 2 o'clock p. m., at which time and place said Association shall determine whether it will wind up its affairs and close its business, or whether it will continue its existence for another term of years, and if it shall determine to continue its existence for another term of years, it will then and there elect a Board of Directors and transact such other business as may properly come before said meeting.

By order of the Board of Directors.

JOSEPH E. TAYLOR, President.

Attest: H. S. YOUNG, Secretary.

President of the People's Equitable Co-operative Association.

Notice to Debtors of Tuesdell & Sons.

To all debtors of Tuesdell & Sons or H. P. Tuesdell, take no lee! You are requested to call immediately and settle your indebtedness to either of the above named parties, otherwise the said indebtedness will be placed in our attorneys' hands for collection.

J. E. DAVEY,
JOS. GRONINGER,
Assignees.

Office, 126 Main Street, Salt Lake City, Utah, Oct. 25th, 1894.

Receiver's Sale.

The receiver of the Ryan & Beem Cattle Company herds, offers for sale about 3000 head of stock cattle, ranging at and near Milford, Utah. Have selected approval of the court. For particulars apply or address

W. C. HARRY,
Receiver.
102 Commercial Blk, Salt Lake City.

The Perfume of Violets
The purity of the life, the glow of the cheek, and the flash of brain sometimes in Pozzoni's wondrous Powder.

The Metric System

A Highly Instructive and Interesting Lecture by Dr. James E. Talmage.

The large lecture hall of the physical laboratory of the University of Utah was packed to its full capacity last (Friday) night with students and citizens assembled to hear President Talmage's exposition of the metric system. The lecture was originally designed for the students of the University and grew out of the following resolution adopted by the faculty last week:

"Resolved that it be the sense of this faculty that the Constitution of the State of Utah should require that the metric system of weights and measures be taught in all the public schools of the State, and that the said system be made the legal system in all public business."

The interest manifested in the subject outside the University connection time to be changed from the afternoon to the evening in order to give all those who desired to do so an opportunity to attend. The character of the audience was a surprise in there most complete in behalf of the new system. A considerable number of leading merchants and miners were among the spectators and showed all the symptoms of full interest in the lecture.

The subject in the hands of a less able speaker might have been a dry one, but it proved to be anything but so in the present case. The lecturer was introduced by Dr. J. T. Kingsbury, who in a brief way forecast the subject of the evening by calling attention to a few of the most important features. Dr. Kingsbury also stated that the apparatus and many of the illustrations used by the lecturer had been the gift of Dr. Kingsbury was the statement that no more completely equipped college in America could be selected for study without a second thought, and he also expressed that that opinion was the one of all their physicians and chemists—for no other kind was now manufactured.

The lecturer was surrounded by apparatus and various other appliances illustrative of his subject, and behind him on black boards and charts were sketched tables showing the contrast between the new system and the old rules now in use. The pictures were interwoven with the lecture admirably throughout, and showed the superiority and advantages of the metric system suffic ently clear to the comprehension of the dullest mind in existence.

Dr. Talmage said: We have all much to do with the weights and measures of material things. Magnitude is one of the properties of matter; every piece of matter possesses extension in the three directions, length, breadth and thickness; and the existence of this property, which in the simplest of its forms may be named as that of size constitutes the means of defining "matter"—the term that provided so difficult to the early philosophers. To determine and describe this property of matter, some standard of measurement is absolutely indispensable. In very early times, certain portions of the human body were accepted as convenient standards of measure. Hence we have our terms "span," "cubit" (from elbow to middle finger tip), "finger's length," "finger's breadth," "hand's breadth," "span," etc. It is plain that if a unit be adopted, multiple and fractional units may be determined from it. It is said that a certain philosopher once undertook to weigh the earth, and to find the number of grains of sand, which, placed end to end, would extend a mile. He found that a certain number of sand grains covered to a space of one inch square, so many inches square would contain so many grains in a cubic inch, and so many cubic inches in a mile. A pretty piece of work to have been very generally used, in spite of the very great inconvenience and the many objections accompanying their use.

The importance of establishing efficient measures for the determination of size and weight is very clearly set forth in the House of Representatives committee on coins, weights and measures of the Forty-sixth Congress: "There is no subject in which the general business interests of all countries as well as progress in science to all its departments are more deeply involved than in this, hence it is a subject which has occupied the attention of the most eminent thinkers and the best law-givers in all ages and in all lands and climes. The establishment of the system of weights and measures belongs not merely to the domain of mechanical science, but enters as well into the higher science of metaphysics, and the generalization of history." Even uncivilized peoples recognize the need of some standard of measurement, and the higher the civilization the more general is the use of the adopted standard. The world calls today for an international standard; a unit of measurement common to all nations having mutual relations of commerce and other conduct. Prof. Barnard writes: "No cause is more in the way of execution of privileged society has contributed more largely to embarrass business transactions among men, especially by interfering with the facility of commercial exchanges between different countries or between different portions of the same country, than the endless diversity of local standards employed for the purpose of ascertaining the quantities of exchangeable commodities."

There are other and more serious evils of the system of our present units. In the year 1120 King Henry decreed that the Britons ell of yard should be the length of his own royal arm. A statement, too, purporting to be of the exact length of the royal arm was actually found on the chest. It was broken, however, and was so evidently imperfect that no accuracy could not be trusted. In 1305, during the reign of Henry III of England, grains of wheat became the basis of measures of length. And in 1324 there issued from Edward II the solemn decree that forty consecutive cylindrical wheat grains, from the royal word went forth that "three barleycorns, round and dry, shall make an inch; and twelve inches a foot." In 1760 a copy of the ancient yard was prepared for the English government, and was known as "Hord's yard stone;" this was destroyed in the great London fire of 1834. At last the British authorities stopped a search for the most reliable copies of Hord's ideal, and on the copy of a copy another copy was made for the use of the United States coast survey. This yard is, however, now known to be still longer than the British imperial yard, a type of which is now kept in Illinois tower. It is copies of this scale which are furnished with sets of weights to the state governors by our common government.

Long ago the French adopted the length of the foot of Louis XIV as the standard length, but this proving unreliable as the arm of the English king, the people of France set about devising a more satisfactory standard as will be afterwards described. Their first proposition was to make the length of a pendulum vibrating seconds at sea level in latitude 45° N, a standard of measurement, and in the determination of this unit the French asked their British neighbors to cooperate, but the latter refused.

The perplexities incident to the lack of a simple and rational system of weights and measures were experienced and deplored by the early lawgivers of our nation. The Articles of Confederation provided, and the Constitution of our country afterward confirmed the provision, that Congress should hold supreme power in prescribing systems of weights, measures, and the units of coinage.

Washington in his first message to Congress recommended early attention to the subject of providing a uniform system of weights and measures; and in a later communication on the subject the recommendation, using these words: "A uniformity in the weights and measures of the country is among the important objects submitted to you by the Constitution, and it can be derived from a standard, at once invariable and universal, must be one recommendable to the public councils than conducive to the public convenience." Agreeable to the presidential chair earnestly urged that an attempt to make to establish a decimale standard, and in July, 1790, Jefferson, secretary of state, proposes to Congress a simplified system founded on a decimal relation. The basis was to be the second's pendulum at sea level, 45° north, and of this 1 was to be the legal unit, each foot containing 10 inches, each inch 10 lines, each line 10 points; 10 feet were to make a decimal of distance from, 10 cubic feet; 10 decimals a mile. The cubic foot was to constitute a measure, which with multiples and fractions decimally determined was to furnish the secondary units for liquid and dry measure, and the weight of a definite volume of water was to constitute the unit of weight. This report was never favorably acted upon, as the proposition of France to establish an identical system was then growing in favor.

In any efficient system, precision of terms must be secured; that is, each term should possess a definite significance. This desirable condition is not realized in our present inefficient system. Take the "yard" as an example. Its legal definition is "3 feet," and a foot is the twelfth part of a yard. Now, what is a foot? Why, a foot is a foot. Is it not? Is it not that an English foot is not a French foot? Is it not that a foot is not a foot? Is it not that a foot is not a foot? Is it not that a foot is not a