the University, who may desire to know the process of obtaining the velocity of the earth at any point of its elliptic orbit, we will here give the formula, expressed in words instead of algebrai-

cal symbols. Let twice the distance of the earth from the upper focus of the ellipse be multiplied into the square of the velocity which the earth would has been known to work wonders. A have if it revolved in a circle whose radius is equal to its distance from the sun, and the product be divided by the major axis of the orbit, and the square root of the quotient will be equal to the velocity of the earth at that point of its

In consequence of the unequal velocity of the earth, it describes one-half of its angular distance around the sun much sooner than the other half. If we conceive a right line drawn through the sun at right angles to the major axis, and extended on each side to the earth's orbit, that portion of the orbit on the perihelion side of this line will contain an equal number of degrees that the other portion contains; but the portion of the orbit on the perihelion side is much shorter and also is described with greater velocity than the other. The difference of time in the description of these two portions of the orbit is about 7 days and 17 hours.

Consequently our summer is about 8 days longer than our winter; that is, the sun is about 8 days longer in the six signs on the northern side of the equator than he is in the other six on the southern side.

The subjects investigated in this lecture are, from their very nature, necessarily abstruse and difficult to comprehend, except by the mathematician. But we trust that many, if not all, of our future lectures will be more adapted to the comprehension of a mixed assembly. We shall not, however, neglect any interesting or fundamental principles in the science which will aid the astronomical researches of the more advanced students of the University.

AGRICULTURAL.

butter makers that when cold weather gave what would lie on the point of a sets in there is no longer any profit in | knife-blade at three times, repeating it care required to make butter at this seafollow it with profit. Another objecovertasks and weakens the cows. This objection is a good one, where cows receive the least possible care and the and animal vitality, the constitution of case. the cow will not be impaired. When thus fed and comfortably housed, even though milked up to a short time before of the coming season than where she usual manner.

AT the last meeting of the Parent Society for the Improvement of Stock, them in condition, so that they would | rich soil beneath the clay and gravel in Bishops Layton, Maughan, Crismon not then give so much. He now mixes their hunt for gold; filling the clear and others made some very excellent two bushels of wheat bran with one rivers with sand and mud, till the chanremarks about the care of sheep, &c. bushel of corn meal, with very satisfac- nels are choked! What is the reason? Bishop Layton stated and Bishop tory results-feeding them twice a day to Ask Plymouth Rock for the answer! Maughan repeated the statement that the twelve cows. He adds that carrots | "Do I believe Brigham Young and as sheep had been cared for in the past, increase the flow of milk, and make it John Taylor and Orson Pratt sincere and in many instances at present, when of the best quality; and that apples in- men? I do most certainly. Such work killed thay were unfit for food. Mutton, crease it as much as turnips and proan excellent article of food, easily duce much better quality. These redigested, nutritious and healthy, was sults are very nearly the same as those positively unfit to be eaten in very of our own experiments, performed with many instances, through the wretched less attention to accurate weighing and care bestowed upon many flocks of measuring. sheep. Sheep-raising is a profitable business, as was proved by the statements of these experienced men, when gave it as his idea that in order to get properly conducted. The profits which the greatest benefit from clover as ma-Bishop Layton said he had made at the nure, "you should run a mower over business was decidedly encouraging; it when the first crop begins to mature; but those profits had been made by be- let it lie where it falls till the second stowing attention upon his flock, and ripens its seed, then turn all under." taking pains to keep the animals free from disease. It is stated by those most familiar with the business that no other gave the following as his plan for makstock will give such a return for the ing hens lay "when the streams are trouble of fattening as sheep. We have locked and all the landscape is clothed seen it estimated that a sheep, say of in white": First, give the fowls a well-21 pounds of clover hay per week, and hay. Then place a number of boxes in increase in weight 2 pounds. Of course different places for nests. Mine are the hay must be good, not burnt up twelve inches square and twenty-two stuff, but cut when in full bloom, and inches long, made tight, except one end. cured in such a manner as to retain all A small board is nailed on the open end its juices. If it is desired to fatten sheep to keep the nests to its place, and laid rapidly, the addition of a small quan- on its side; this protects the eggs. Since tity of oats to their other food will be this plan was adopted, my hens have of great service; a gallon of oats, once paid for it richly in eggs, while my a day, among twenty sheep, will be a neighbors do not get any. great help to fattening. They do not require very close quarters, in fact, they will not bear very close confine- Rural says: "I noticed in your paper ment; but their quarters must be dry, a few weeks ago a sure cure for foundwell ventilated, and abundantly littered ered horses. I send you mine, which I with clean straw; they must be fed have tried on many different horses, regularly, kept quiet and have access to water. In cold weather they ought to some old woolen blankets or rags-if to be fed better than when the weather woolen rags are not handy, take strawis mild.

In three years a farmer on the Isle of Man raised seven bushels of barley from a single grain.

come to the bottom.

GREAT benefit is derived by cattle from the use of salt pork. Half a pound Mr. Crane states that his father had a steer which lay down in a lot and was expected to die, it was suggested to give it some uncooked pork. A few slices were placed in its mouth, which seemed to give it an appetite. The next day it was on its feet, and subsequently it became a fine ox. We have seen many a sick ox and cow cured on the Plains by the same simple means.

THE Pacific Rural Press suggest that when a farmer loses a horse, or ox or any other animal, instead of leaving the carcass to be devoured by coyotes and crows, he should cover it with six or eight times its bulk of earth, and thus arrest the fertilizing gasses which will be thrown off in the course of decomposition. By so doing he would secure a quantity of manure which would pay him five times over for the trouble it would cost him.

In the Cultivator and Country Gentleman we notice two cures for worms in horses. One who had tried all common remedies, such as tobacco, ashes, indigo, sulphur, copperas, etc., without effect, for a mare troubled with worms, was THERE is a general impression among advised to try calomel. For a dose he dairying; that the extra feed necessary in forty-eight hours. He gave it at to produce the milk, and the greater night in chop feed, and kept the animal from water until nine or ten o'clock son of the year, render it impossible to next day. He remarks that had he not tion against winter milking is that it it impossible for so large a number of leaders are such. But ask yourselves worms to pass from one animal. The cure was perfect.

The other remedy is a handful of siftsmallest amount of food that will bring ed wood ashes put into a quart bottle, them through in tolerable condition; and the bottle filled with cider vinegar; but where the cows are fed an abun- it will foam like a glass of soda. It lowest stratum of society, gone a thoudance of good, nourishing food, so that should be given to the horse that sand miles over trackless wildernesses the milk makes no drain upon the has worms the moment it foams. Two amount needed to maintain bodily heat | bottles, it is said, will cure the worst

Telegraph says that from carefully tried | deaths to build a harem in a desert? calving again, the cow will usually be experiments, he found that wheat bran in a far better condition for the opening caused his twelve cows to give nine the tropics; it enfeebles, it loathes toil! quarts a day more milk than when fed has been dried up and wintered in the on corn, and wheat and rye shortsthinks the bran would soon reduce

JOHN H. MORRIS, of Morrisville, Pa,

SAMUEL WOODS, of Rogersville, Pa. 120 pounds, live weight, will consume protected building, with some straw or

A CORRESPONDENT of the Western and in cases of long standing. Take and wrap the legs tight up as high as you can conveniently, then take hot water, hot enough to scald the hair off moved from Faust's stables and placed in on a well horse, pouring it around the charge of Bishop Thomas Jenkins, and horse's legs until they are well soaked; then in one hour serve in the same way, CONSTANTLY taking off from the land except not quite so hot, and in two and never putting anything on it, will hours he will be as well as ever. This as assuredly produce sterility and bar- I know to be a sure cure, and there is

flour barrel and never putting in, will | would be the case with turpentine. The horse is paralyzed; the limbs are cold, and the hot water will start the blood circulating and start the perspiration I have taken boiling hot water and applied it and never injured a hair."

> A DISPATCH from Jacksonville, Ill., to the Chicago Tribune asserts, on the authority of Prof. J. B. Turner, that the peach buds in that locality were all killed by the intense cold weather of December, and that orchardists inform him that the peach buds throughout Central Illinois are nearly or quite all de stroyed.

AMONG persons the least disposed to treat the character and claims of the Latter-day Saints and their religion with fairness, candor and truth, the clerical body have rendered themselves conspicious; in fact, amongst them the Saints have found some of the bitterest enemies they have ever had to encounter, and on more than one occasion in their chequered history ministers have been the ring leaders of mobs who have imbrued their hands in the blood of our people. But once in a while a parson or minister will do honor to the ministerial calling by telling his honest convictions in relation to the "Mormons," despite his own, or the prejudices and preprosessed notions of his hearers.

Among this number we are pleased to make honorable mention of the Rev. W. B. Wright, of Cincinnati, O. In a late sermon preached by him he made the following remarks: It is generally supposed that the Mormons are licenseen them he should have thought tious hypocrites. Few doubt but the the question-Is it reasonable, on any recognized principles of human nature, that men whose mental power would have insured tham wealth in any society should have joined their lot with the and almost impassable mountains, starved a year on crusts and bark and roots, for a purely selfish purpose? Is lust so hard to gratify in Paris or New A CORRESPONDENT of the Germantown | York that men should dare a hundred

"Self-indulgence—Sybaritism, seeks But these men are in love with labor! Contrast Utah with California. Utah which would be about three gills more | was a desert-men have made it a garfor each cow, at each milking. But he den. California was a paradise-men are making it a desert-burying the

> as they have done was never before accomplished, except by sincere, believing men; some of them are hypocrites, doubtless. But the most of them, it appears to me, believe themselves inspired of God as sincerely as ever Moses believed it of himself. Any legislation based upon the theory that these men do not believe what they affirm will be lamentably ineffectual."

> A man, holding the position of a sectarian minister, who will thus fearlessly and honestly express his views about the "Mormons" is the possessor of genuine worth, and he ought to be numbered amongst, and saved with, the people whose character he thus defends!

LOCAL AND OTHER MATTERS.

FROM FRIDAY'S DAILY

PRESIDENT YOUNG'S MOVEMENTS .- The following was received per Deseret Telegraph Line, this afternoon:

February, 3. The President stayed at Toker last night and left for Cedar city at 8.40 this morning. He stays there to-night."

REGRET.-We regret extremely to learn that Elder Wilford and Sarah B. Woodruff, this afternoon buried their infant son Charles Henry, aged about nine weeks. We condole with the bereaved parents in their affliction.

"THE DUKE OF NORTHUMBERLAND,"-This celebrated animal, recently imported purchased since arriving here by the Parent Society for the importation and improvement of stock, &c., has been rewill be kept in future on his premises on East Temple St.

A GOOD WORK DONE .- A very useful work is now in process of completion on the Deseret Telegraph Line. The poles to feet, Mill running winter and summer. renness, as constantly taking out of the no danger of injuring the animal as which the wires of that line are attached are

mainly pine and quaking-asp, both of which will decay and become worthless in the course of four or five years. To avoid the necessity of having to erect new ones in that length of time, Superintendent A. M. Musser, having an eye to economy and the best interests of the line, has had all the poles, from Ogden to clear away down South, strengthened with, in most cases, two cedar posts which are firmly pinned, one on each side, to each pole, which will render the erection of new ones unnecessary for twenty or twenty-five years. The work from Ogden to Pleasant Grove has been done by Bro. B. W. Driggs, of the latter place.

MONTPELIER, -A YEAR BY MAIL. -Mr. C. H. Bridges, writes a few items from Montpelier, Rich county. He says they have aday and a Sabbath school and a co-operative store in operation; and as a general thing matters are prosperous in that part of the country. They have scarcely any snow there and the winter has been very mild; the "monster" has not yet been caught; and the mails are not so regular as desirable. He gives an illustration of the latter fact, too good to be lost. Last November, twelve months, he posted a letter at Montpelier to a relation residing six or seven miles south of this city; and strange to tell, last November that very letter was returned to him through the post office.

A better and truer illustration than the above, of the promptness and efficiency of the mail service in Utah under the present administration it would be hard to furnish.

FROM SATURDAY'S DAILY.

MOVEMENTS OF PRESIDENT YOUNG .-By Deseret Telegraph line we learn that President Young left Cedar City at 7.15 today, and stayed at Parowan for dinner. He goes to Beaver to-night.

FEMALE PRESIDENT FOR 1872.—Victoria C. Woodhull is the nominee of the "Cosmo-Political Party" for President of the United States in the election of 1872. We think she has a very sim chance for election; but Victoria is a good name. Queen Victoria has done very well, or has done very little ill, for England, and President Victoria might do as little for the United States; anyway she could hardly fail to do as much good as some Presidents have done.

INSURANCE. READ THIS!-There is a good deal being said just now about life insurance, and the agents of most of the companies endeavor to make a great point of the positive impossibility of failure on the part of the companies, and the consequent non-liability to loss of those who take out policies. Their representations, verbal and printed, sound very specious and plausible to the ears of the uninitiated; but the following extract from the Chicago Tribune, which may be depended upon as strictly reliable, tells a different story, and we recommend its statements to the attention of our citizens:

"The failure of the Monitor Mutual (Life) Insurance Company, of Boston, adds a fifth case to those of the Great Western, Farmers and Mechanics', and others, which, within two months past, have transpired. These cases need alarm no one who, if he has insured at all, has taken the pains to find out the difference between the solvent and the insolvent companies. About thirty of the hundred companies now doing a "life insurance" business in the United States are as plainly insolvent as any of those which have failed, in all respects, except that the cash has not yet given out, and are still able, therefore, to pay salaries. But they have not the available assets with which to reinsure their existing policy holders in a sound company, and no responsible company would take their whole assets as a compensation for insuring even half of their risks. Fully one-third in number of the companies now existing are insolvent in fact, and the sooner they fail the less their policy-holders will lose. But such failures will leave wholly unaffected the bulk of the life insurance outstanding, of which fully seventy per cent is carried by eleven companies, which are thoroughly responsible and safely conducted."

"Nonnac."-Our correspondent"Nonnac, writing from Omaha on the 28th ult., says "I crossed the river, (Missouri) three times on the ice to-day. I felt serious, as it is the first time I have done so since our wagon went through, twenty-two years ago. The bridge built by the U. P. R. R. on spiles, driven fifteen feet below the bed of the river, answers every purpose while the ice lasts. Trains run regularly without any risk. It is thought the new bridge will be so far completed as to enable, them to run trains over next August. They are constructing an embankment or levee from the neighborhood of Bluff City to connect with the bridge on the east side of the river; they convey the earth from the bluffs by a small engine and cars. They evidently mean business by the way the work progresses."

MOUNTAIN HAIR VIGOR. - The Elke, Nev., Independent is responsible for the following:

"A decoction of white sage which is very from Canada by W. C. Rydalch, Esq., and readily obtained, by boiling it a few hours over a slow fire, will accomplish more in restoring bald heads, fastening falling hair, and renovating and giving healthy action to the scalp than a whole store full of the usual remedies advertised for that purpose."

> LUMBER! LUMBER!- Cheap for Cash Common from \$3 to \$3.50; Clear, \$4 per hundred

d14 3m J. J. THAYNE, 1st Ward, S. L. Otty