fathers and the requiremen's of a false religion, were never inside a ball-room or a theatre until they became Latter Day Saints, and now they seem more anxious for this kind of amusement than are our children. This arises from the fact that they have been starved for many years for that amusement which is designed to buoy up their spirits and make their bodies vigorous and strong, and tens of thousand have sunk into untimely spread of true scientific knowledge. graves for want of such exercises to the body and the mind. They require mutual nourishment to make them sound and healthy. Every faculty and power of both body and mind is a gift from God. Never say that means used to create and continue healthy action of body instructive. and mind are from hell. Such means never from us, and we can never arrive there, unless we change our path, for the way we are now pursuing leads to heaven and happiness.

When the saints come into this building, and look on th's stage, to see our brethren and sisters perform to satisfy the sight, to satisfy the ear, and the desires and mind of the people. I want you to pray for them that the Lord Almighty may preserve them from ever having one wicked thought in their bosoms, that our actors may be just as virtuous, truthful, and humble before God and each other as though they were on a mission to

preach the gospel.

I say to those who perform, if anything is discovered contrary to the strictest virtue and decorum, the offenders must leave this building. I intend this remark to apply also to the musicians. I wish the dramatic company to seek diligently and in all kindness to promote the happiness of all concerned.

Unless by my order I do not wish a drop of intexicating liquor brought into this house; I want the actors behind the curtain, the musicians in the orches ra, and the audience to

hear and observe this.

When this house is finished, there will be places in the passages where cakes, ples, fruits, etc., can be bought; but no intoxicating liquor will be allowed in these saloons. No drunken person will be permitted to enter this house; I will not have it polluted and disgraced by the presence of the drunken, nor my brethren and sisters, who strive continually to do right, annoyed by the filthy breath of a poor, miserable, filthy loafer.

We intend to presive the strictest order here; do we expect the people to come to this house praying, and the r whole souls devoted

to God, and to their religion.

Tragedy is favored by the outside world; I am not in favor of it. I do not wish murder and all its horrors and the villany leading to it portrayed before our women and children; I want no child to carry home wi h it the fear of the fagot, the sword, the pistol, or the dagger, and suffer in the night from frightful dreams. I want such plays performed as will make the spectators feel well; and I wish those who perform to select a class of plays that will improve the public mind, and exalt the literary taste of the community.

If we wish to hold a conference in this hall, we shall do so, and shall use it for all purposes that will satisfy our feelings in doing right, and no evil.

May God bless you. Amen.

## Love for the Dead.

"The love which survives the tomb," says Irving, "Is one of the noblest attributes of the soul. If it has its woes, it has likewise its delights; and when the overwhelming burst of grief is calmed into the gentle tear of recollection; when the sudden anguish and the convulsed agony over the present ruins of all that we most loved, is softened away into pensive meditation on all that it was in the days of its loveliness-who would root out such a sorrow from the heart? Though it may sometimes throw a passing cloud over the bright hour of gaiety, or spread a deep sadness over the hour of gloom; yet who would exchange it even for the sing of pleasure, or the burst of revelry? No; there is a voice from the tomb sweeter than song; there is a remembrance of the dead to which we turn even from the charms of the living,"

ANTEDELUVIAN TREES .- We saw a few days since two remarkable specimens of petrified trees from Pike's Peak. They belong to the University of Chicago, and so far as our knowledge extends, though a young institution, it has the finest and largest specimens of the antedeluvian forests with which we are acquainted.

While the change to stone is complete, the

feet and a half high, and weight one ton and

SEVENTIES' HALL LECTURES.

The great public interest manifested in the lectures of the past winter has afforded real pleasure to the committee who have controlled them, and in bringing them to a close for the present season they desire to express their high gratification in the success which has attended their feeble exertions for the

Those members of the committee who expect to be here, purpose arranging early next fall to have lectures delivered one or two evenings each week during the winter, upon such subjects as will be both interesting and

The last lecture of the season, which is originated there. Hell is a great distance herewith published, was delivered by Dr. Davis, upon the important science of Physiology. It speaks for itself, and therefore needs no comment.

With since thanks to the public for their kind attendance, and encouragment of literary pursuits, we are, Respectfully,

ALBERT P. ROCKWOOD, GILBERT CLEMENTS, Committee ROBERT CAMPBELL, on WILLIAM WILLIS, RICHARD H. ATWOOD, Lectures. JOHN V. LONG,

## LECTURE ON PHYSIOLOGY.

cal system depend on a correct physical edu- tains its vitality. We well know that worms miser. tem, and the laws of the different organs, off, it will be digested: hence, any medicine powerful to burst the thoracic duct, if it be should be subjects of interest to all mankind. that will kill the w rms (and not the person) tied in a living animal. spelling, reading, writing, geography and during life, but frequently after death is found that three-fourths of the vice that entails quired - yes, and a practical knowledge, too. you render in post mortem examinations; perance," says Sir Wm. Temple, "thou phys :un countable," says the celebrated Dr. present themselves - analyse he contents of guardian of youth and support of old age, the while we direct the young to look abroad over p-o-i-s-o-n-e-d. the surface of the earth, and survey i's moun- PASSAGE OF THE FOOD INTO THE INTESTINES. tains, rivers, seas, and continents, and guide their views to the regions of the firmaments, where they may contemplate the moons of Jupiter, the rings of Saturn, and thousands of luminaries placed at immeasurable cistances, that we should never teach them to look into themselves; and contemplate their own corporeal structures, the no merous parts of which they are composed, the admirable functions they perform, the wisdom and goodtheir mechanism. Physiology teaches us what part each organ performs in the general economy. DIGESTION.

not the change miraculous?

s'ructure of the wood is as perfectly preserved preparation of the food ty chewing, grinding sort of kindness is not only making him sick, tion required. as if no change had occurred. The petrify- or breaking it into small parts. This is ac- but it will in most cases either directly or in- The e is a similar objection to hoys wearing agent was silicia, and it may be seen in- complished with the teeth generally-not al- directly plant the germs of dis ase so that ing belts. Healthy lungs at every in piration crusting some portions of the surface in white ways. I have seen a man that never had any life, sooner or later, will become irk ome and require from twenty to forty cubic inches of teeth, but in their stead he had a rim of enam- death but a welcome harbinger. The practice air, suppo-ing we take twenty such inspira-From the curvature of the annual rings or eled bone on both the upper and lower jaw. of frequently crowding the stomach (as ions every minute, which will amount to growth we judge the tree from which these During the process of mastication the food is though it were a carpet bag) is very delete- from 400 to 1600 cubic inches of air per minspecimens come to have been at least fourteen moistened with a fluid called the saliva, which rious to the health of any individual. The ute, according to the size of the lungs; but feet in diameter, and their number and thick- is secreted by certain organs called the sali- stomach must have rest or else it cannot per- suppose we restrain the elevation of the ribe, ness indicate that it must have required about vary glands, situated in the mouth. This form its functions properly. You will please and depression of the diaphragm (as in tightone thousand six hundred years to grow to moistening assists the act of chewing and is, remember that whenever the master (stomach) lacing) so that the quantity of air conveyed that size. The larger specimen of the two is as some have asserted, essential in the pro- becomes so much exhausted through over into the lungs will be reduced to ten cubic

DEGLUTION.

but hey appear to resemble very closely in over the little valve or clapper of the tube the other secreted by the pancreas or sweet- ment of organic laws. I have already

Digestion itself is performed in the stomach ously taught. cause their food is already nearly like the bowels. substance of their bo ies. Consequently the sheep has four stomachs, and its intestines are twenty-seven times the length of its body; face of the small intestines, by an immense while the lion and tiger have but one stomach and their intestines are but three times the length of their bodies.

Man being omniverous (all eating) has an and his intestines are about six times the length of his body.

CHYMIFICATION, OR DIGESTION IN THE

STOMACH.

During his process of chymification the

food is continually moved about as already stated, by the act on of the wall of the stomach, and each portion is thus presented alternately to the small intestines, called the pylorous. This opening is at the right end of the stomach, the esophagus opening into the left or cardiac extremity. Here may pass th ough into the intestines; consequently them." Poor excuse. turned to the u per or cardiac end of the if so, it was previous to their adoption.

called the larynx or wind-pipe); the food is bread, called the pancreatic juice. The gall spoken of eating, drinking, etc.

passed from the mouth down a pipe or tube is a dark green and alkaline substance; the called the esophagus, into the stomach. pancreatic juice somewhat resembles the Most animals mastic te their food first, and saliva. Both the bile and panereatic juice then swallow it; but there are some who swal- are conveyed into the duodenum by small low it first and masticate it of erwards. For tubes or canals. These enter the duodenum instance, the lobster and grass-hopper have several inches below the stomach, not into their teeth connected with their stomachs. that organ as many of you have been errone-

and intestines. The structure of these organs Immediately after the admixture of these varies much in different animals. Thus the fluids with the chyme, there begins to be a sheep, whose chief subsistence is grass, re- separation into two distinct portions, one conquires a very complicated apparatus to turn sising of the nutrit ous portion, called the that grass into the substance of its body; chyle, which is a thick cream-like substance; while the lion or tiger, living upon fl sh, re- and the other of the refuse portions forming quire comparat vely a simple apparatus, be- the foeces or general discharge from the

ABSORPTION OF THE CHYLE.

The chyle is absorbed from the inner surnumber of minute vessels, called lacteals. The chyle now resembles blood in nearly every particular, except its color. The lacteals terminate on the inside of the intestines in ermediate o ganization; he has one stomach, by means of small tubes with open mouths; but externally they appear like strin s of beads, owing to their being full of little valves, to prevent the return of the chyle. In passing through them the chyle also passes through When the food has entered the stomach it certain bodies called the messenteric glands; undergoes the first part of the real process of in which it is supposed to undergo some alterdigestion, and is converted into a greyish ations. Eventually the lacteals terminate in pulp-like substance called the chyme. The a vessel called the receptacle of the chyle. Being called upon to make a few remarks stomach itself is a kind of pour h or bag with This vessel is the commencement of a tube, on the subject of physiology, in justice to my- very strong muscular walls which keep up a in man about the size of a small chicken self I must confess that I hardly know where continual contraction and relaxation; a sort quill, called the thoracic duct, which runs up to commence: the science of physiology is so of churning as it were of the food from side the spine, till it reaches the left sul clavian extensive, and yet so closely connected that to side. The grand agent, however, in con- veins into which it empties. The chyle is thus to deduce only one lecture from the great verting the food into chyme, is a peculiar passed into the venous blood, and goes with field, and at the same time make it both inter- fluid called the gastric-juice, which is secret- it to the lunge, where the action of pure air esting and edifying to this vast and diversi- ed from the inner wall of the stomach. This turns it vermilion red, and converts it into fied congregation, is no small task. Ages lus, fluit has a remarkable solvent power which real blood. There are other vessels also king of Sparta, when asked what thing boys few substances can withstand. It acts very which empty i to the thora ic duct, besides should learn replied: "those which they will readily upon all ordinary articles of food. It the lacteals; these are called the lymphalics: practice when they become men." As health acts out of the body the same as in it. The the great lymphatic vein empties into the requires the observence of the laws inherent gastric juice from the stomach of the lion or right subclavian, like the thoracic duct on the to the different organs of the human system, tiger will not act upon the food in the stomach opposite side. The lymph is a fluid somewhat so not only boys, but girls, should acquire a of the sheep; nor vice versa; but the gastric similar to the chyle, and is supposed to be correct and thorough knowledge of the laws juice from the st mach of man will digest the the superfluous particles of nutriment not of their organization. If sound morality de- food from the stomach of the lion, tiger, sheep needed just at that time, and is consequently pends upon the inculcation of correct princi- or any other animal. It cannot, however, again thrown into the circulation, instead of ples in youth, equally so does a sound physi- act upon any body so long as that body re- being wasted, nature being a great econo-

cation during the same period of life. Hence, exist in the stomach and intestines unburt; We are not acquisited with the force that the study of the structure of the human sys- but let one die, if it is not immediately passed moves the chyle upwards, but it is sufficiently

Every young person, and particular y every may, if properly compounded, and given suit- A medical man remarked to me a few years young miss, after acquiring a knowledge of ably, become a celebrated vermifuge; and in since, that the throat had destroyed more the primary branches of education, such as like manner the stomach itself is uninjured lives than the sword; he furthermore said arithmetic, should I arn themselves, and the corroded, or part'y so, or may even have holes wretchedness upon the human family, is phystructure of the human system, and the con- eaten th ough it in consequence of the action siological vice; which consists in the deditions upon which health and disease de- of the gastric juice. Hence, I will say, phy- praved indulgence of the hree appetites, viz: pend, for this knowledge girls will be re- sicians and coloners, bewate of the verdicts Eating, drinking, and sexuality. "O, Temyou will need in after life. 'It is somewhat | where corro ions of the stomach or bowels cian of the soul as well as the body, the best Dick, "and not a little inconsistent, that each carefully before you pronounce totelar goddess of health a duniversal medicine of life, that keeps cool and clears the head, and cleanses the blood, that e ses the stomach and purges the bowe's, that streng hens the nerves, enlightens the eyes, and comforts the heart." How often have we beheld the miserable moth r, with her helpless infants, pining in want, while the cruel father was indulging his insatiate appetites.

LACING.

Boys, let your motto be, Natural waists or be observed a remarkable phenomena, which no wive. No woman is fit for a wife or ness of the great Architect displayed in as yet has never been explained, nor is it un- mother, who is a confirmed wearer of stays or derstood by man. This pyloric opening will corsets. "O" says one, "I cannot keep rect, permit only the digested portions of food to unless I wear them. I feel so weak without

the undigested portions of food must be re- Was there not a time when you felt buoyant; The human body, like every other organized stomach till they are nore fully acted upon will relate one circumstance by way of illusstructure, is continually wasting away, even by this peculiar fluid, the gastric juice. Hence tration. A few years since I was called in to the deerest and most solid parts. This to this little sentinel is given the name of consultation to see a young lady who was waste requires to be supplied by the addition pylorus, a p rter. This trustworth servant co fined to her bed: formerly she had posof new matter, and hence is required the or poster will not permit any portion of food sessed health and strength, and all the requifunction of digestion, which cons sts in chang- to pass without the count rsign of its master site ac emplishments of her sex. Her pulse ing our food, drink, etc., into the materials of (the stomach), which password is, digested was feeble, her breathing short; I found on the body. This change is one of the most ex- Hark, do I hear some mother saying, doctor examination that tight-lacing had been the traordinary phenome a in nature. Every you have missed it his time, for my little one primary cause of her sickness; death scon part of the body of anim I life is formed from often passes its food apparently just as it closed her earthly career. I was also present the fluid called blood, which is first formed swallowed it. That is just what I wanted at the post mortem examination. Her sterfrom food, drink, etc. Does it not seem al- you to call my attention to; the too good num or breast bone was crowded backward most impossible when we consider the various mother often says, Tommy, or whatever the and upwards; the ends of the false or short articles of food, and how desimilar they are name may be; sonny, you he we not eaten ribs were jutted passed each other four inches, to blood, that such a conversion can occur? enough this time, don't you want a piece of whereas they should have been at least six For instance, compare a piece of bread or a cake? No, Ma. Poor little dear he must be inches a under. She had lessened the size of potatoe with a portion of blood, and observe s ck; here, my son, drink a little tea or coffee. her waist ten inches. Her liver, stomach, how unlike they are to it in every respect; is He drinks some. The mother anxiously en- lungs, etc., were thrown towards the spine; quires, my son, can't you drink a little more? her chest was so contracted that the langs Betty, you go and get him some preserves, for could not receive more than one-fourth part The first part of the process con ists in the I am sure he must be sick. Ah! mother this of the inflation that health and their organiza-

over nine feet in circumference at the base, cess of digestion after the food has entered feeding or any other cause as to be conquered, inches of air per inspiration, where twenty that then the little servant (pylorus) ceases are needed, and the resul's will be as follows: to be sentinel till the restoration of its master. only one half the carbonic ac d will be elimina half-3,000 pounds. The other specimen is The next act, after mastication is accom- When the chyme is passed from the stomach, ated from the system, and the blood will renearly as long, weighing half as much, and is plished, is that of deglution, or swallowing, through the pylorus, it enters the first part of ceive but one half as much oxygen as it renearly uniform in size from end to end, while which, though it appears so simple an act the small intestines, called the duodenum. quires: consequently the blood will be but the larger specimen tapers from the base to when we perform it, is nevertheless a very Here the separation of the nutritious portion imperfectly oxydated, and but partially fre d complicated one, in which many curious of the food from the refuse commences. Here from its impurities. This impure blood will The species to which these wonderful speci- scientific principles are concerned (every par- a'so the chyme meets with two fluids, one be returned to the left side of the heart, and mens belong has probably been long extinet, tic'e of food or drink we swallow has to pass and secreted by the liver, called the gallor bile, the whole system will suffer from an intringe-