## THE DESERET NEWS.

## LECTURE DELIVERED BY ELDER WILLIAM WILLES, BEFORE THE UNIVERSAL SCIENTIFIC SOCIETY, SATUR-

## [REPORTED BY ROB. L. CAMPBELL.]

DAY EVENING, 27TH OCTOBER, 1855.

I feel it a pleasure to be present on this occasion and to have the opportunity of attempting the stereotyped characteristics of which, are still ting my statements with the pictorial represento minister to your improvement and instruction, and contributing to spend a pleasant evening. I shall speak on the customs and manners of India where I have been laboring. The Prophet Joseph was instructed by revelation to India, (if we may be allowed the expression) is tations with names and objects, and names and obtain a knowledge of countries, and to seek at a low ebb at the present time. They have a objects with representations. wisdom and knowledge by study and out of good books.

The Prophets have said Zion should become the joy of all the earth. Her missionaries are the arts and sciences amongst mankind will thus and large drums. be brought into our midst, and as oaks grow out of acorns, so these germs will unite and expand until Zion shall become the praise of the whole earth.

There is a remarkable tree in India called the branches which descend to the earth, take root, Lucknow; where, the king had just introduced until it becomes a perfect tree forest, like America-an off shoot from Britain, becoming much him, at which they executed a series of musical she will ultimately become greater than them usual tuning of instruments. all.

The natives of India consider according to a requested the conductor to favor him with a The natives of India make as frequent use of worthy of your attention, in addition to the large amount well known adage among them that there are repetition of the first tune they played. They their feet in arts and manufactures as they do of three principal duties which man has to perform began their series and went thro' 1, 2, 3, &c., their hands, for instance, in the art of wood turin society, the raising of children; the planting but to their utter astonishment, the king persistof trees; and the digging of wells and tanks; the ed in stating that they had not played the tune expensively constructed lathe, but the Indian duty connected with raising children is well un- which he heard them play at first, and being in workman by the aid of his feet and a few simple derstood in all parts of the earth and needs no dispair of satisfying him, they re-commenced explanation, but in regard to the planting of tuning their instruments in the usual manner, same results. trees the EastIndian plan commends itself to our upon hearing which his majesty expressed his approval, inasmuch as irrigation, protection, gratification by exclaiming 'that's the right inary and desultory remarks, hoping at some fuand growth, are secured by the aid of a plan tune,' for this very good reason that it was most ture time to have the pleasure of delivering a which they follow of surrounding the sapling like the musical effusions of Indian musicians. with a circular mud wall, from a foot at the base to 6 or 7 inches at the top, 3 or 4 feet high, hav- of the lowest stamp, except a few who are reing a slight inclination inwards, and the opentained in the courts of the Hindoo rulers, called ing at the top being covered with bramble bush- rajahs, or Musselmen nawabs; but formerly, es to render the protection still more perfect .-previous to British rule in India, the poet and Apertures are left at the bottom of the wall to the musician were combined in one person, the receive, and convey irrigation streams. same as the bards in Europe, and were held in In regard to the tanks, and wells, many in- high estimation both by rulers and people .dividuals appropriate large sums during their Their intertairments now will sometimes last life time, and in their bequess for the purpose of three weeks and are conducted in a sumptuous excavating wells, and making tanks for the pub- style, on which occasions open house is kept. lic benefit. Dancing by the natives is a professional em-In India they have many processes of rutili- ployment, followed by men and women of disty, connected with increasing personal comfort reputable characters. who are hired to dance on by artificially reducing the temperature in their these occasions, and in consequence of this it at houses. One contrivance is called the kuskus first excited extreme surprise in the minds of tatty. This is made of a Bamboo frame with many respectable natives, who had been induccross pieces the whole length of the frame, ed to throw off their prejudices by excepting inabout the distance of 4 inches apart, on which vitations to balls and parties given by Europeans, are placed small vegetable fibres known there as to find that the Europeans themselves were the kuskus. This is made the size of the door or dancers, considering it to be (altho' a necessary window in which it is fixed on the windward calling) a very degrading one. side of the house, and during the prevalence of The Indian naatch or dance consists merely the hot winds, is constantly kept saturated with in the exhibition of the most profuse and gracewater, either from the tricklings of water from a ful movements of the head, arms, and body, perforated trough placed over the top, or water and many gesticulations with little or no movethrown from a mug by an attendant. Agreeing ment of the feet, as well as occasional prostrawith the experiments illustrated by the celebra- tions and genuflections or kneelings. ted Dr. Franklin, upon the principle that the These naatch rundees or dancing girls are temperature is reduced by evaporation, which is sumptuously dressed in flowing garments, and a source of much comfort to those who have accompany the Musicians with a song, mostly been accustomed to more temperate climes. In extemporaneous and either of a lewd or amorous this way the temperature of their dwellings is character to suit the taste of their employers. reduced from 20 to 30 degrees. As the naatches mostly come off at night the In addition to this they suspend large punkahs place of entertainment is brilliantly illuminated or fans from the ceiling by ropes which are pro- by lamps supplied with cocoa nut oil, and flampelled to and fro by native servants by means of beaux, or neat torch, which renders the whole ropes and pulleys,. scene imposing and gorgeous, greatly heighten-These punkalis consist of oblong frames of ed by the variety of custume worn by the nawood upon which is stretched cotton cloth, tive gentry, and by way of contrast, a large painted and adorned according to the means, and swarm of natives in their undress. taste of the owners you will readily admit that The hookhah or Indian pipe is freely used on such an apparatus is of great utility where the these occasions, and consists of a vessel in the sun is almost vertical and the thermometer will shape of a tankard calculated to contain about a stand 120° in the shade, and in the upper pro- quart of water: in the upper opening of which is vinces of Bengal where the hot winds prevail inserted a wooden pipe, which descends to nearfor several months in the year. ly the bottom of the vessel, and to which is at-Notwithstanding the heat is so great in the tached pipes, or sometimes long flexible tubes, day time large quantities of ice are artificially several yards in length, richly ornamented with made, collected and distributed under the super- silk, grass, gold and silver lace, and furnished intendence of committees formed for that pur- with amber or ivory mouth pieces. pose for the benefit of large societies who con-At the top of the perpendicular pipe, which tribute of their means to defray the necessary is inserted in the water is placed a small pan expences, the process is simple and consists of which fits on closely, and contains the tobacco, placing small unglazed earthen dishes on rice and small pieces of live charcoal, to keep the tostraw placed upon the ground which dishes are bacco lighted. at sunset nearly filled with water by native men, The advantage of this method of smoking towomen and children, employed for the purpose, bacco may be readily inferred, as all the smoke and between that time and sunrise in each dish which issues through the tube has ascended a cake of ice is formed, upon the same principle through the water, conesquently parted with of evaporation, the Northwest wind prevailing some of the injurious ingredients contained in during the night tends to effect this. tobacco. It is only in the upper provinces in the fall of The smoking tobacco of India is manufacturthe year they can make ice. The lower provin- ed so as to make it agreeable to the devotee of ces are suppplied by ships from America which the pipe, inasmuch as molasses, spices, cardecarry apples, also truit and flower trees in the mums, carraways, tamarinds, and rose water, ice which preserves them. Butter is kept cool with other scents, are used in its composition. by the ice. It is also used in their wines and The tamarind, peepul, and banyan trees, are other commodities. the most popular, and memerous of the shade Men and animals wear much faster in India trees of India. The tamarind grows as large than in changeable climates. It requires much as the British oak, having a small dark green, care in shielding the head from the sun by narrow leaf, and bears the delicious fruit known

drinking, and exercise, which is very observa- birds, whose loud and continuous chatter may ble in the almost entire absence of haste (com- be heard daily. pared with the Western nations) which characobservable at every turn.

small violin, with a bunch of jingles at the low-

appreciation of our style of musical compositions were performing at a grand festival given by sults could be produced by such simple means.

After the pieces had all been played the king and muslin for the nobility.

They generally avoid all extremes in eating, army. The figs furnish food for vast flocks of

terizes all their movements. They retain with conveyance, and public buildings of India which great tenacity their national peculiarities which I design to present to you at some future time, have been handed down for thousands of years, which would give you an opportunity of associatations, for as Cobbett the celebrated grammari-They acknowledge themselves inferior to Eu- an used to say 'let us impress by way of illus- but when steam power leads the van, who can foretell the ropeans in every thing except music, although tration,' by this means ideas are more indellibly rapid strides of improvement that will follow in it the state of efficiency of the musical world in fixed upon the mind, by associating represen- wake?

er end of the bow; an instrument called by them ming pots, and pans, from clay which is placed will give the following statistics connected with the transa sitar, or sort of banjo, with metal strings; a upon a flat horizontal solid wheel, having a pin portation of merchandize during the past season:kind of clarionet; horns, and the tumtum, a in the centre, which turns in a socket, and is being sent to all nations, the improvements in pigmy drum; they also have gongs, cymbals, made to revolve by placing a piece of stick in a notch, and moved by a sweep of the hand which An amusing instance of their strong predilec- holds the stick and presses the wheel during tion for their own style of music, consisting of the revolutions, of which he alternately turns very short airs, interlarded with a jumble of in- the wheel and moulds the clay; in fact, if the definable clangor, and illustrative of their non- different works of art produced in India, were placed side by side with the material and im- To haul these 513 tons required for banyan tree, which sends forth roots from its took place at the palace of the King of Oude, at plements made use of in their construction, much astonishment would be excited in the minds of and form new trunks and stems ad infinitum, to his court a band of European musicians, who an intelligent European artisan, that such re-

This observation will apply aptly to the conlarger than the parent tree-and altho' Zion is compositions much appreciated by the European struction of machinery for building bridges, the apparantly an off shoot from the nations, yet visitors present, which were preceded by the manufacture of sugar, or the delicate manipulations employed in the manufacture of Jewelry

> ning, a European workman would require an tools and materials will bring about precisely the I have now brought before you a few prelimseries of lectures, illustrative of my experience Most of the native musicians are itinerants of in the East Indies; thanking you for your kind attention I pray that the blessings of heaven may attend you for ever in the name of Jesus: Amen.

Suffice it to say that, from the best information, th whole route passes through a healthful, generally fertile and beautiful country, and along which, when one I have a few illustrations of trades, modes of opened, the hardy pioneers from the western, northern and eastern States would flock by hundreds and by themsands, causing the opening of cultivated fields and the sudden uprising of villages and towns, as if by the power of magic, in the beautiful Territory of Nebraska. The adventurous spirit of Americans has been often proven.

But without drawing upon the golden banks of the future, and to show that the present freight trade affords I have a representation of a native potter for- sufficient inducement for moving in the matter at once, p

Freight.	Cost in cash.	
185 tons		
Co. 160		54.400
75	10 10 19 21 / 2 BRA	25,500
50		17,000
35	A REAL PROPERTY OF A REAL PROPER	11,900
8		2,720
513 tons		\$174,430
	185 tons Co. 160 75 50 35 8	185 tons at 17c. per Co. 160 ,, 75 ,, 50 ,, 35 ,, 8 ,,

T. S. W. & Co.	Wagons. 87	Oxen. 1000	Oxen dead, 300
L., K. & Co.	102	1000	210
G. & G.	54	600	75
S. & Co.	35	234	110
B. & Co.	21	336	20
W. S. G.	5	40	7
Total	304	3210	722

A glance at the above figures will show that the carry. annually required by the Trustee in Trust of the Church, which is not shown in the above exhibit, and will explain, in a measure, why I feel anxious to lessen the enormous expenditure for mere transportation. With an intent to accomplish this object, in case you conclude to respond to the above suggestions, I proffer to send suitable persons, by way of the South Pass, to ascertain by actual, careful examination how near light draft boats can come to that point, and should that distunce not much exceed 150 miles, I can readily find a sufficient number of resolute men who will build a for. at the head of navigation, and store and protect all property placed in their charge. So soon as this arrangement is fully made, it will bea comparatively trifling operation to send teams from Utak for all the goods this market may require, for with a little more care and attention these mountain valleys can be filled with herds of cattle and bands of horses, and numbers of hardy and skilful men are always ready to emban in an enterprise of this nature. And in addition to the increase of freight naturally attendant upon the increase of our population, the reduction of price and the many advantages attending the doing our own hauling, without being compelled to pay out money for the purchase animals and provisions for teamsters, would directly ten to swell the business to a magnitude well worthy the ap tention of the most able capitalists. It may be queried, inasmuch as I am so sanguine of the success and mutual benefit of this new project, why It not engage in it to the full extent, and build and runth number of boats adequate to the amount of freight Slight reflection will convince any one that my positions too isolated, and my other operations too numerous an varied, to enable me to successfully compete with y upon your own grounds and in a department with white you are perfectly familiar.



ING ON THE WESTERN WATERS: GENTLEMEN:-

You are doubtless aware of the far inland position of Utah, and that all her imported goods have to be transported in wagons from some point in the Missouri river, a distance of over one thousand miles. The tediousness and expense attending this toilsome and unsatisfactory operation cannot be fully realized by those who are only familiar with the facilities afforded by steamboats and railroads, hence, with a view to benefit the present and future population of Utah, to aid in further developing the resources of our wide-spread country and to supplant the labor of animals with the tireless power of steam urged into new and profitable channels, I will give a brief detail of my views upon the subject. I use the term brief from the fact that I am not now in possession of a full fund of information concerning a portion of the proposed route, neither have I present access to those individuals who may be acquainted therewith, I shall therefore discuss the plan as it appears to me, and give such facts as are at hand. After having tried various routes and methods for the speedy, economical and healthful transmission of our numerous immigration, both foreign and domestic, the northern route from Boston, New York and Philadelphia, to Council Bluff's city, is deemed by far the best, yet, when at the last named point, they are on the Missouri and more than a thousand miles of tedious travel short of their destination, and all our imported articles of machinery and merchandize have usually been landed on the banks of the same river, though at distances still further removed. All the goods just named are either bought in or shipped to and from St. Louis, thus involving a constantly and and rapidly increasing amount of carrying trade, the value of which is fully appreciated but by few, if at all. you were deaf and blind, for there has only or It is possible that boats already transport our goods to the nearest navigable point, but I do not consider it probable, for this reason I frankly offer my reflections. For many years steamboats of heavy burden and deep draft have made annual trips for the fur companies far up the Missouri, but on account of their size and the limited nature of the trade on the Upper Missouri, little has hitherto been accomplished. Now alter those conditions by a large addition of freight and the substitution of boats constructed for navigating shallow and tortnous waters, and if even those waters are to be found as favorable as done by, and you know it. it is presumed they are, and on the route herein discussed, it is obvious that a new field for enterprise is at once opened.

You will please observe that I have not included an inducement held out by our large and rapidly increasing immigration.

Trusting that you will so far deem this article worthy your attention as to favor me, at your earliest convenience with answers containing your views and proposals, and that this new channel for trade will be found feasible an beneficial, and that the fort will be built and the channel sounded by the time that the boats can be got ready, I remain, very respectfully, your obedient servant, BRIGHAM YOUNG.

The plan proposed is, for persons engaged in the steamboat business to become acquainted with the kind of boats quality, just as you yourselves would like the best adapted for starting from Council Bluffs city and treated? means of an umbrella to prevent being sun- by that name 'The peepul tree, is an object of steaming to that point nearest to the South Pass which struck, which is the case with many who do not veneration among the Hindoos, who suppose it is profitably practicable to reach. Whether that point Snow, on the morning of the 14th inst. ms 2 use that precaution among both Europeans and that each leat of this tree contains the spirit of is best to be arrived at by way of the Upper Missouri, inches deep in this city, but soon melted d; 10 natives. Yet on the other hand from mere cus-Yellow Stone, Big Horn and Wind rivers, or by the Yellow some departed relative of its planter. inches deep at the lower, 14 at the middle and 24 tom and usage thousands old and young will go Stone and some other of its tributaries, or whether any of In the hot weather it forms a delightful shade, at the upper mills in Big Cottonwood kanyon; \$ with perfect impunity with their heads entirely as its leaves are in constant motion, and have a the tributaries of the Yellow Stone will admit boats of the inches in Ogden city; 6 inches in Cache valley; uncovered and even shaven; their heads shining long pendant point. lightest available draft, are questions that I am at present unable to answer, neither can I now determine how near in the sun-like mirrors having been smeared The banyan or Indian fig, is found covering and from 10 to 18 inches deep in many places several acres, and cap ble of shading a whole to the Pass such boats can come. with cocoa nut oil. between here and Fort Bridger.

Notice .- Persons who are acquainted will the Yellow Stone river and its southern trib taries, or who know of any within this Territor who are, will confer a favor by furnishing sm information at the Governor's Office, as it is pa ticularly desirable to have a correct understan ing concerning the amount of timber and qua ty of soil on those streams, and their adaptation the purposes of navigation with light da steamers.

WHY DON'T YOU PAY ATTENTION ?- From N. 33 until now we have called upon you for He Straw, Fodder and Wood, and you act as though load of hay been delivered, and that was very poor, and only a few loads of wood. If we had asked you for cash, which is always a lawful tent er, we should have expected but a small amount for it is said to be scarce; but to withhold in money, and then require of us cash or stor orders for such articles as you have to spare at we need, is not doing as you would like to)

Who will mend their ways, and forthwith the nish the wanted articles; on their subscr ption the 'News,' sufficient in amount and of god