

# We Furnish Your Home Complete

See Our Line of Christmas Presents Before Purchasing--

## COMPARISON

We invite it. We know that we are giving our customers not only bargains as to value, but art in household furnishings. We have been in business in Omaha for ten years and our trade today is larger than it ever was, notwithstanding the hard times. Our terms are easy, and we always are willing to adjust them so as to please all.

## Special Terms--

And inducements to Young folks going housekeeping.

# CARPET SALE

\$30,000 worth of Carpets at cost, to reduce stock before taking inventory.

- \$1.25 Moquettes, per yard 85c
- \$1.25 Body Brussels, 75c
- \$1.00 Tapestry Carpet, 60c
- 85c Ingrain Carpet, 58c
- 50c Ingrain Carpet, 25c

## See Our Line of Misfit Carpets

This handsome hunting bed very nicely finished \$9.25

## Bargains in Curtain Dep't.

- 1000 pairs Nottingham Lace Curtains, 75c
- 100 pairs Fine Brussels Lace Curtains, \$2.25
- 200 pairs Irish Point Lace Curtains, regular price \$6.00, now \$1.98
- 700 pairs good quality Chenille Curtains, full size with heavy fringe, worth \$9.00, now \$3.75
- \$25,000 worth of fine Lace Curtains and Drapery goods to select from.

We have in stock thousands of articles in parlor furniture, odd divans, odd corner chairs, odd rockers, that would make suitable presents.

# Special Prices to Close Out Our Entire Stock of Parlor Desks, Bookcases and China Closets.

Parlor Desk, Solid Oak Ladies' Desk, Polish Finished \$3.75-

Solid Oak Beveled Mirror, Polish Finished \$5.25-

**\$2.25**

For this elegant **ROCKER** Upholstered in either plush or silk tapestry, solid polished oak frame.

**\$2.48**

We have in stock thousands of Rockers in all styles and coverings. See our line.

**\$4.75**

Regular price. Leather seat, high back, with arms, solid oak, carved and highly polished.

**\$10.25**

Drop Back Couch, spring edge Upholstered in a good quality pongee, makes an elegant folding couch.

## Bargains in Our Crockery Department

- 100 Dinner Sets, accented in either blue or brown, fully worth \$12.00, our price \$6.50
- 75 Toilet Sets, 8 pieces \$1.50
- 300 Banquet Lamps, with shade \$1.25

**\$7.50**

We sell an elegant Cook Stove with a large oven and guarantee to bake for.....

This Bed Room Set in either square or cheval glass, has beveled edge mirror, very large dresser and well finished, fully worth \$20.00.....

**\$12.50**

Mr. H. Gupitell, the manager of the Crockery department, has returned from Chicago and New York, where he has bought an elegant line of fancy goods suitable for Christmas presents. Be sure and see his line before purchasing.

## Our Usual Easy Terms Will Prevail:

**CASH OR CREDIT**

- \$10.00 worth—\$1.00 down—\$1.00 a week.
- \$20.00 worth—\$2.00 down—\$2.00 a week.
- \$30.00 worth—\$3.00 down—\$3.00 a week.
- \$40.00 worth—\$4.00 down—\$4.00 a week.
- \$50.00 worth—\$5.00 down—\$5.00 a week.
- \$75.00 worth—\$7.50 down—\$7.50 a week.
- \$100.00 worth—\$10.00 down—\$10.00 a week.
- \$200.00 worth—\$20.00 down—\$20.00 a week.

# Jepher's Furniture & Carpet Co.

1315 1/2 S 17 FARNAM ST.

## SOMETHING ABOUT THE SUN

Chat with Secretary Langley Concerning His Wonderful Discoveries.

NOT ALWAYS ON TIME FOR DINNER HOUR

Enormous Heat Generated Accurately Measured—Suggestions for Applying It Mechanically—Study of Flying Machines.

(Copyrighted, 1905, by Frank G. Carpenter.)  
WASHINGTON, D. C., Dec. 14.—For years the investigations of Mr. S. P. Langley, the secretary of the Smithsonian institution, have been watched with absorbing interest by the scientists of the world. What Edison, Tesla and Bell are to general invention he is to scientific invention. He has created new methods in the study of the heavenly bodies. He has to the largest extent measured the heat of the sun, inventing for the purpose the bolometer, by means of which the temperature of a substance can be tested to the millionth of a degree. He has given us our best idea of the wonderful spots on the sun's surface, and has been shown how this great body may practically affect the earth and eventually be better used to its advantage. It was Mr. Langley who originated the systematic time service by which the clocks of our cities are now regulated from the observatories of the country and by which the railroads still run their trains without danger of accidents through varying times. It is he who has made some of the greatest advances in the study of the problems of the air, and of the physical principles upon which aerial navigation, if it is ever realized, must rest.

The most of these experiments and observations were made by Mr. Langley while he was the head of the observatory at Pittsburgh, though he was then constantly supplementing them by others which he carried on at high altitudes all over the world. In the plains of Spain, on the edge of the crater of Mount Aetna, in Sicily, upon Pike's Peak, in Colorado, and on the snowy summits of the Sierra Nevada, in California, he has been, not on a court for an hour, but spending long days and nights studying the heavens, watching the changes on the sun's surface, and trying to learn their practical applications for the uses of mankind. He is in a minor degree carrying on observation and experiment today, though his time and energies are necessarily almost wholly devoted to the administration of the great institution of which he is the head.

CHAT WITH SECRETARY LANGLEY.  
This man is now 61 years young. His life has been packed with the hardest of work, but his eyes are bright, his step is firm, and he has today as much vitality as any of the younger officers of the institution. He is, I believe, the busiest man in Washington, for he carries on the observations only in the intervals of his administrative work, and it required a special appointment made some time in advance for me to secure a talk with him. He is in a minor degree carrying on observation and experiment today, though his time and energies are necessarily almost wholly devoted to the administration of the great institution of which he is the head.

He did not like to answer these. He wanted to put himself in the background, but I feel that the people will be interested in his personality, and in the story of how he made little technical language, and studied the stars and got there. Upon my asking him when he was first attracted to the study of the heavens, he replied:

"I had not thought when I remember reading books upon the subject as early as I, and when I was quite a boy I learned how to make little telescopes, and studied the stars through them. Later I made some larger ones, and though they were, of course, nothing like those we use here, I think myself they were very good for a boy. One of the most wonderful things to me was the sun,

and as to how it heated the earth. I used to hold my hands up to it and wonder how the rays made them warm, and where and how the heat came from. I asked many questions, but I could get no satisfactory replies, and some of these childish questions have occupied many years of my later life in the answering. For instance, one of the wonders to me was a common hotbed. I could not see how the glass kept it warm while all around was cold, and when I asked I was told that of course the glass kept in the heat; but though my elders saw no difficulty about it, I could not see why. If the heat went in through the glass it could not come out again. I now know that the glass of the rays changed after entering the glass, and that they could not come out because they grew larger. Letting in much the same condition as that of the lean mouse who crept through a hole in a barrel of grain and filled himself so full that he could not get out. Since then I have spent many years in studying the way that that great hotbed, the earth itself on which we live, is, by a like principle, made warm by the atmosphere that covers it as the glass did the hotbed.

"Was your father an astronomer, Mr. Langley?" I asked.

"No," was the reply. "My father was a merchant, and I have no records of astronomers in my family. My father was not rich enough to give me an income sufficient to support myself and my hobby astronomy; you know, is not a very profitable science, and as I had to make a living for myself, I chose the profession of architect, which was then a respectable trade. I was naturally liked it. After some years I went to Europe, and on my return from the trip, having a little money, I decided that I would try to do something out of the ordinary. I had been studying the bolometer, and I had been thinking of the fact that although I lacked the experience that only an observatory could supply, I knew some details are also lost from its remoteness."

"Can you give me an idea how far off it is?"

"I have tried in one of my popular writings to do that by a borrowed illustration," replied Mr. Langley. "For instance, you touch your finger to a candle, and in a fraction of a second your brain registers the heat. The sensation has traveled along the nerve to the brain almost instantaneously, but my sense has been mastered. Suppose you had a pencil and pencil before me as I look through the telescope to record these changes as they went on, in order to catch their varying expressions on the sun's face. I cannot describe to you the wonders that are going on there. I found, however, that in order to do my work well, I must learn more about the mechanics of the drawing which was all I knew, and as these studies went on, I learned to draw and paint sufficiently well to make my records, and then I have drawn hundreds of sun spots, and the works which I have published have been illustrated with my own drawings of them."

LOOK AT A SUN SPOT.  
At this point in the conversation Secretary Langley had one of those former drawings of a sun spot laid upon the table. It was, in fact, a beautiful painting about 12x14 inches in size, of what seemed to be a snowy surface, with a large black line in the middle, crossed by strange lines of light, blending in fantastic outlines like the frost figures of a pane of glass.

"That," said he, "is a spot which I saw in 1873. It remained about twenty minutes in the field of the telescope, and it looks just as I saw it. You notice all around it is white. The sun does not look like a ball of fire when you see it in the telescope. It appears more frozen than hot. It looks much like the moon, while iron in a great pudding-factory. You cannot see its beauty in the

drawing, nor can you appreciate its size. That spot which I have drawn was so big that the earth could have been dropped to skin as it were, along the wondrous air, as a speck of dust, touching the surface of this spot; the faster you go in either case the less danger there being of falling down. As far as I could judge from my talk with him his experiments show that the soaring birds have an intuitive knowledge of certain properties of the air, which have been only recently developed through these experiments, and that by these they navigate the air almost without effort in a way which there is no reason to think that it is impossible we can do, if not by our unaided strength, at any rate by means of such engines as are recently being built. With regard to this he spoke of the fact that such birds even about Washington may be seen rising and falling, soaring and sailing down, and moving in circles without any flapping of their wings.

Said he: "Did you ever think what a physical miracle it is for such a bird as one of our common turkey buzzards to fly in the way it does? You may see them any day along the Potomac, floating in the air, without the movement of a feather. These birds weigh from five to ten pounds; they have not wings, but they are able to place; they are absolutely heavier than so many fattons. I suppose if men saw cannon balls floating through the air like soap bubbles they would look on it as surprising, if not as a miracle. The only reason that we are not surprised at the soaring bird is that have seen them in our childhood. Perhaps if we had seen cannon balls floating in the air from our childhood we should not stop to inquire how they did it any more than we make the light horizontal with speaking now, of course, not of birds which fly flapping their wings, but of those which fly without flapping their wings, or very rarely, and with almost no visible expenditure of force."

HE TELLS OF HIS DISCOVERIES.  
"There is a good deal of misapprehension about the investigations, going on in this respect," Secretary Langley went on, "but what I have at least demonstrated is that there are ways in which it can be made which will produce enough mechanical power to support themselves in the air, and to fly, though this is not saying that we have yet got the direct and control this power so as to rise, advance and descend safely. What is actually demonstrated rests on actual experiments repeated under conditions not so easily repeated in the open air."

"These experiments are in the nature of an engineer's measurements, giving things in pounds, feet and horse power, and by them I have shown that an expenditure of one horse power if we can only regulate it so as to make the light horizontal will support about 200 pounds, and at the same time carry it at the rate of fifty miles an hour through the air."

"Now, there have recently been built steam engines which, with fuel and water for a short flight, will give a good deal more than a horse power and weigh a good deal less than twenty pounds, so that we have a very large margin."

"What I am trying to do is to establish by these experiments the underlying principles of this future art or science, and, having found the exact amount of force required, if possible, to learn next how it is to be exerted, directed and controlled."

"I know it is dangerous for any one to make any statement except in positive facts and figures about such matters. The people have ever since the days of Da Vinci Green, and his flying machine, until very lately, put such a snuff down as a visionary, without investigation of what he has to offer. As for me, I have never said that man could fly by his own strength, nor have I ever published the details of any flying machine, but what I have said is that we have covered, but demonstrated by actual experiment, is that there is no doubt that machines can be made powerful enough to support bodies in the air which are thousands of times heavier than the air itself. People who ask, if this is so, why such machines are not made at once to actually fly, with the human freight, and to say now got mechanical power, may be surprised that though they themselves have got plenty of strength to rig a bicycle or to skate, they think that it is not enough till they have added the special skill and experience to use it. Just as every man's legs are strong enough to ride a bicycle, while yet most of us cannot do so without much painful experience in learning how to use and manipulate our strength,

as many nowadays find out. So it is with artificial flight. We have got the mechanical power now, but we have still got to acquire the skill to use it in this new field."

"But will that day ever come, Mr. Langley?" I asked.

"As to that," replied Secretary Langley, "I have so far spoken only of what I have ascertained to be fact, and I want to distinguish between what is fact and what is only my opinion. Expressing only my personal opinion, then, I am willing to answer that I believe it altogether probable that in the not very distant future, but how far distant I do not pretend to say, flying machines, that is, not balloons, but heavy constructions actuated by machinery, will be propelled very rapidly through the air, probably at first rarely and at great risk, but in the arts of war, later on, in introducing a great change in all human affairs in the arts of peace."

Frank G. Carpenter

## WHITHER MORMON JOURNEY.

### Their Mecca One of the Historic Spots

During the past two months hundreds of Mormons residing near Independence, Mo., Nauvoo, Ill., and in Lee county, Ia., have been making their annual pilgrimage to the old Mormon crossing of the Big Blue river in Marshall county. Near this historic spot are the Alceve springs, where so many of their people were massacred by the Indians in 1846 as they were making their way across the great American desert to Salt Lake. They have been visiting the old crossing in small numbers since the 1st of September, crossing the Big Blue where their forefathers did, and resting a few days near the springs, where religious services were regularly held in commemoration of the early pioneers who braved the dangers acrossed the way to the new Mormon settlement at Great Salt Lake.

The old Mormon or "Independence" crossing of the Big Blue is one of the most romantic spots in Kansas, and in the Big Blue river is a stream as clear as crystal, and the Alceve springs are located in a sequestered spot, which seems to have been made by nature for such gatherings as these.

When the first immigrant trains carrying the Mormon people and their belongings to the Great Salt Lake crossed the Big Blue at this now historic spot there was scarcely a vestige of civilization in that region of country. For ages its prairie had been covered with a waving sea of wild grasses; vast herds of buffalo had for hundreds of years wandered almost unimpeded over the prairie, and the occasional Indian saved an occasional band of nomadic Indians in search of prey or plunder, and the hardy frontiersman who is always found far in advance of civilization. As early as 1820 Major Stephen H. Long crossed that part of Kansas now known as Marshall county in command of an expedition of the United States Army, and he was the first white man on his expedition to the Rocky mountains in 1820-24 passed through that section of the state and camping in his travels several immigrant wagons enroute to Oregon.

It was in 1874 that John Smith, the Mormon apostle, with his band of followers from Illinois, opened his way through this country, crossing the Big Blue river at the old "Mormon," "Independence," or "Salt Lake" crossing. This was a mile below the present town of Marysville, the county seat of Marshall county. For two years the exiled Latter-Day Saints passed over the trail that led to this crossing on the Big Blue river. At one time a Mormon camping party was surrounded by Indians at this famous spot and they were killed. Among the party were several elders of the Mormon faith who were going to the western home to look after the spiritual welfare of the pioneers and their families. Ever since the Mormons of Missouri, Illinois and Iowa have made annual pilgrimages to Alceve springs, where appropriate services are held.

## SWEEP MYSTERIES.

C. P. Wilson in New York Sun.  
Slowly the snow in late autumn are growing. Glad homilies! Tides, set in motion by winds briskly blowing.  
The nestling eases rise; the heaven's stile; And the butterfly, though in a shroud he must wait.  
In dim surmise; For all things shall rise.  
Gently kind spring has awakened the flowers; Sweet mysteries! Swiftly the grub on the wing, with new powers;  
To happiness flies; Ever with redoubt wave and strong motion, Lullward now march the forces of ocean; Grand auguries! For all things do rise.  
In the world visible lurks the invisible; Telling of blessed truths plainly perceptible; To love's eyes.  
Telling of Heaven and happy Tomorrow; Telling of joy with no vestige of sorrow, Where love's bright skies, Joy have never dies.

Cincinnati Enquirer: "For the life of me, I don't see why you persist in maintaining that whisky is of any value in the cure of snake-bites. Why, all the modern scientists..."

Chicago Tribune: "Shadbill, if a man should circulate a report that you were a desert, that you take great pleasure in introducing this netted traveler. I am sure I speak for all when I tell him we shall be glad to have him in our midst. I take this occasion to caution the children not to eat too much, since he is reputed to be very rich." Whereupon it plainly appeared that his majesty was not only witty, but schooled in the finer shades of meaning of the English tongue.

Detroit Free Press: "I don't mind eating biscuit made with baking powder," said the tramp, "but I draw the line at bread raised with yeast."

"I'd like to know why?" said the woman of the house, as she drew back the half-loaf of white bread.

"The yeast that made that bread worked," answered the tramp, "and I cannot consistently affiliate with it."

Washington Star: "Look here," said the editor, "you included in this poem a line about the earth cycling around the sun."

"Yes," replied the poet, confidently; "and I stand by it. That line, sir, is not only an exact and polished expression, but it is astronomically correct."

"Mebbe so, but it won't go here. 'Cycling around the sun,' he repeated scornfully. "Why don't you say 'the earth and put bloomers on it,' and be done with it?"

Chicago Post: "I don't believe you are a scientist," said the detective, who was on the trail of a forger.

"Don't I look like one?" asked the suspect.

"Yes, you look like one," returned the detective.

"And don't I act like one?"

"Yes, but what is it that makes you doubt me?"

"When you asked for a pencil I gave you one with the point broken off and you were able to sharpen it yourself."

Then the forger realized that he was discovered and confessed.

Drawing, nor can you appreciate its size. That spot which I have drawn was so big that the earth could have been dropped to skin as it were, along the wondrous air, as a speck of dust, touching the surface of this spot; the faster you go in either case the less danger there being of falling down. As far as I could judge from my talk with him his experiments show that the soaring birds have an intuitive knowledge of certain properties of the air, which have been only recently developed through these experiments, and that by these they navigate the air almost without effort in a way which there is no reason to think that it is impossible we can do, if not by our unaided strength, at any rate by means of such engines as are recently being built. With regard to this he spoke of the fact that such birds even about Washington may be seen rising and falling, soaring and sailing down, and moving in circles without any flapping of their wings.

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