

# LIGHT AND THE EYES

We Do Not Always See Things as They Really Are.

## COLORS WE CANNOT DISCERN

Normal Vision Is Not Able to Penetrate to the Regions Beyond the Violet—Some Results That Have Been Attained With the Camera.

Those of us who are fortunate enough to possess normal eyes are apt to feel instinctively that we see things as they are. This is a mistake. The appearance of the world at large is merely the result of the circumstance that the human eye perceives only a comparatively small part of the total radiation which comes from the sun or is given out by a lamp.

To make this a little clearer we may consider one of the oldest experiments in optics, the passage of a ray of light through a prism.

When a beam of sunlight passes through a prism of glass such as is often found on old-fashioned chandeliers the rays are spread out, forming a spectrum, which we see as a rainbow colored band upon the wall. The colors of the spectrum merge into one another by insensible gradations, though the older physicists were in the habit of recognizing seven—red, orange, yellow, green, blue, indigo and violet.

These colors which the eye perceives are by no means the only ones present in the spectrum. If we perform the experiment in a dark room and place a photographic plate in such a position as to receive the image of the spectrum we find that it extends to a considerable distance beyond the violet.

In other words, there is a region beyond the violet which the eye cannot see, but which the sensitive plate is able to photograph. This region is termed the ultra violet, and the light from virtually all sources contains a greater or less amount of this ultra violet light.

The only difference between this ultra violet light and ordinary visible light is in the length of the wave which is, in fact, the only difference between the different colors of the visible spectrum. If, instead of using a glass prism for forming our spectrum, we use one cut from a quartz crystal we find that the ultra violet spectrum is very much longer, which shows us that the shortest waves of light are not transmitted even by the clearest glass.

If your eyes were sensitive to this region of the spectrum instead of to the other the appearance of things would appear black, our windows would be as opaque as sheets of iron, and polished silver would resemble anthracite coal. In other words, things appear as they do merely from the circumstance that in the process of evolution our eyes have developed a sensitivity to a certain region of the total spectrum of the light which comes to us from the sun.

If we have used an ordinary photographic plate in our experiment we shall find that it has received no impression from the red and yellow parts of the spectrum and very little from the green. The plate therefore suffers from the same defect as our eye. It is sensitive only to a limited region. Recently, however, means have been found of rendering plates sensitive to the entire visible spectrum and to a certain extent to the infra red or the extension beyond the red analogous to the one beyond the violet.

With a photographic plate rendered sensitive to the entire spectrum we could obtain an idea of how things would appear if our eyes were sensitive to regions other than the one adopted by nature by excluding from the lens of the camera all rays other than the ones with which we wish to operate. This is done to a limited extent every day by all photographers who employ color screens in their work, and it is well known that increased contrast can often be obtained in this way.

If, for example, we attempt to photograph white clouds against a blue sky without the use of such a screen we get scarcely any trace of the clouds at all, whereas if we place a yellow glass in front of the lens the clouds come out snow white on a very dark background.

We can see this same effect by viewing the clouds first through a piece of deep blue glass, which is what the photographic plate "sees," and then through the yellow plate.

At my laboratory at East Hampton, N. Y., I have pushed this principle to the extreme and have obtained photographs both by the infra red and the ultra violet invisible rays.—Robert William Wood in Century.

### A Mechanical Answer.

The well-to-do patron of the place had been attentive to the cashier for some time, and now, business being slack for a few moments, he deemed the time propitious to speak.

"If you will be mine," he urged as he leaned over the desk, "every comfort that you may desire will be yours. True, I am no longer young, but I have money, and I can provide for you as few young men could, and surely the material side of the marriage question is worthy of some consideration."

She said nothing, but gently touched the cash register, and the words "No Sale" sprang into view.

With a sigh he left.—Chicago Post.

Self laudation abounds among the unpoised, but nothing can stamp a man more sharply as ill bred.—Boston Globe.

## FOOLED HIS SUPERIOR

An Astonished Pasha and a Lieutenant Who Won Promotion.

Kasim Pasha when minister of war for Egypt was very particular in regard to the personal appearance of his officers and issued stringent orders that they should never appear unshaven or with a single hair upon the nose. A lieutenant who had learned the pasha and disregarded his orders. "To what regiment do you belong?" demanded the indignant minister. "To the — regiment, at Abassah," replied the frightened lieutenant. "Did this my carriage at once so that I can carry you to the encampment and have you publicly punished." was the stern command which followed.

The young man obeyed, and the train rolled along gloomily enough for some time, when the pasha stopped his carriage and entered an office where he would be detained for some time on business. During the opportunity, the culprit sprang from the vehicle, slipped into a neighboring barber's shop and regained his post before the return of his jailer minus his beard. For the remainder of the route the officer buried his face in his hands and viewed the picture of an apprehension.

Abassah was reached at last, and all the soldiers were assembled to witness the degradation of their comrade who all the while kept well in the rear of his chief. "Come forward, you son of a dog!" cried the irate pasha when there stopped before him an officer with a face as clean as a baby, and a look of the most supreme innocence. His excellency gave one look of blank astonishment and then, with an appreciative smile breaking over his war worn features, turned to the assembled soldiers and said, "Here gentlemen, your old minister is a fool and your young lieutenant is a captain."

## THE HOUSEMAKER.

Mar's Chivalry to the Fried Goddess of the Fircide.

As we women frequently admit, it is our chivalrous regard for woman which leads us to desire that she shall confine her wholly admirable energies to the making of our home and the keeping of our houses. She is tender and frail, and so we urge that she shall not for a moment drop her role as the goddess of the household. There is nothing that so rouses our almost sacred admiration as to see our own particular goddess with a dishrag in one hand and a frying pan in the other. Let us never desert this high ideal of womanhood and its lofty purpose in life.

Particularly let us not do so because if a woman does not keep the house it will not be kept. Would we men engineer and prepare 1,005 meals in one year? Would we wash dishes 1,005 times, wipe them 1,005 times, sew, darn, mend, devote our lives to a gray womanhood of treadmill effort? Not on your life! Our chivalrous regard for adored woman would not permit it. And we would go crazy within six months if we tried. I know of nothing that we should cling to more closely than this chivalrous regard for our womanhood. It saves the cost of many and many a hired girl.

I have penned this little tribute to man's chivalrous regard for woman because anybody can see that it deserves it. Woman, the housekeeper (and nothing else), the fried goddess of the fireside, the queen of her domestic domain, with a steppan for a tiara and a stove hood for a scepter, let us together pledge her, while we register our chivalrous vow that we will keep her where she is unless we men need her as a stenographer or something else, in which event our chivalrous regard may stretch a few points.—Call for a Month.

### Drink and Diplomacy.

Prince Marbach once boasted that in his youth he drank a bottle of champagne at one draft from a "puzzle goblet so constructed that one could not bring it close to one's lips, yet one was not allowed to spill a drop. Not a single drop fell on my waistcoat. Every one was immensely surprised, but I said, 'Give me another.' Such tricks were formerly an indispensable part of the diplomats' trade. They drank the weaker vessels under the table, wormed all they wanted to know out of them and made them agree to things contrary to their instructions. When they got sober they could not imagine why they had acted so."

### What They Were Hawking.

At an exhibition of paintings in London in one of the galleries hung the notable picture "Hawking in the Olden Times." An elderly farmer and his wife passed before this picture, viewing it with evident satisfaction.

"John," said the old lady, "what's that?"

John then turned over the leaves of the catalogue he carried.

"They call it 'Hawking in the Olden Times,'" said he.

"Hawking? Why, what are they hawking?" she inquired.

"I dunno," he replied, "but I spects they're trying to sell them birds."

### Later Returns.

Mildred—So you are engaged to young Wilson, eh? I thought you said your love for him was purely platonic?

Helen—And it was before he inherited half a million and asked me to marry him.—Chicago News.

### Keeping It Dark.

Miss Kidder—Ssh! Carrie has dyed her hair black. Don't tell anybody. Miss Ashlett—Is it a secret? Miss Kidder—Yes. She wants to keep it dark.—Boston Globe.

## FOR SALE, FOR RENT, ETC.

FOR SALE—Good brick house for four families, first class location, a few minutes walk from city center. Phone 742. Price \$12,000. Call 256.

FOR SALE—N. G. R. building, 100 ft. x 100 ft., at 100 ft. W. of Morris, phone black 292.

FOR SALE—A wheel invalid's chair. Phone black 117.

FOR SALE—My residence and two lots on Mc Cook. H. I. PROCTOR.

8 room house and 5 acres of land for 4000.00. A. BRUNKE, 4000 166 M. C. Ave.

FOR RENT—Two furnished rooms. Phone black 422-17.

Two furnished rooms to rent; and house, 10 acres. Phone black 159.

FOUND—A large curtain. Owner can have same by calling at this office and paying for the ad.

### Rural Letter Carriers Organiz.

The rural letter carriers of Red Willow county met in McCook, Tuesday, and completed a county organization, under the title of the Red Willow County Letter Carriers association, with A. F. McCook of Bartley as president; Charles C. Byfield of McCook, vice-president; Percy Carlisle of Bartley, secretary; Ira E. Lyon of Indianola, treasurer.

Among the important matters discussed by the carriers was the good roads question, which is of vital moment to the carriers, a matter in which they hope to interest all the people who are now blessed with the rural free delivery service.

The next meeting of the association will be in Indianola on Labor Day.

The session here was held at the home of Carrier Steve Jimerson.

### TEST YOUR SEED CORN.

As a result of continuous tests of Nebraska seed corn, the Corn Belt club of Omaha announced Monday that only 27.12 per cent of the corn held by farmers for seed in Nebraska will grow. The state has been alarmed by such reports, which are said to be absolutely authentic. The corn in the northern part of the state is absolutely worthless for seed, while in the southern part those farmers who tested corn find they have only sufficient seed for themselves and will have none to sell. The Commercial club and banks in many parts of the state will continue to make tests while the railroad companies are sending bulletins to all stations warning against planting untested corn.

### MINNESOTA WON.

The state of Minnesota Monday won a complete victory over the Great Northern Railway company when the supreme court of the United States affirmed the decision of the state court, holding that the railroad was liable to a 4 per cent gross earnings tax.

Minnesota also won a victory over the Chicago Great Western Railway company when the supreme court affirmed the decision of the state court holding that the railroad also was liable to a 4 per cent gross earnings tax.

### To Trade For Land.

Stock hardware. A city property. Two store building. A hotel and five lots. 80 acres east of here to trade for McCook property.

A 100 acre farm east of here, well improved. 60 acres in alfalfa.

I also have some fine homesteads and relinquishments.

Don't forget the place to get a farm loan. L. E. BARGER, Room 3, over McConnell's.

### LOST FIVE BUILDINGS.

Edison had a bad fire, last Friday morning, five business buildings going up in smoke.

The fire started in the bank and was well under way when discovered. From the bank it went north burning Munday's general merchandise store, D. D. Bellamy's printing office, a barber shop and a hardware store.—Cambridge Clarion.

### OYSSTER SUPPER

at Perry school house, Friday evening, March 4. Everybody urged to attend. Proceeds to be used for benefit of school.

Step in and see that display Kimmell has on his walls. You've never seen such a collection of high grade work before in McCook. Kimmell studio, first door north of Commercial hotel. Phone red 428.

Note the advertisement in this issue of the dance to be given under the patronage of the Catholic ladies on St. Patrick's night, March 17th, in Menard's hall. Tickets, \$1.00. Full orchestra.

J. W. Proctor of route 2, this city, will remove to route 2, Indianola, about March 1st.

### NEW SUPPLY HERE.

We have plenty of hard coal, nut, stove and egg sizes. New supply just arrived. BARNETT LUMBER CO.

## MINOR ITEMS OF NEWS

McConnell files prescriptions.

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A. McVicker, prescription druggist.

Mary Harrison, nurse. Phone black 280.

COLLEGE SINGING GIRLS.

Wednesday Night, March 2.

Huber handles the Carhartt gloves, and caps also, and a full line of other makes.

Mr and Mrs. J. E. Russel left, this week, for their home on Mr. Russell's farm near McCook, Neb.—Wray Gazette.

You look as well and feel as well as your blood is rich and pure. Take McConnell's Sarsaparilla and be your best this spring. Price \$1.00.

Lice on horses, cattle, sheep, and hogs can be thoroughly exterminated by a Lee's Dip. \$1.25 per gallon. W. Woodworth's Drug Store.

Preparatory to removal to Colorado, I wish to sell a large part of household furniture, including tile-lined refrigerator, sideboard, large rolltop desk and chair, davenport etc. H. L. KENNEDY.

Most everyone has some favorite recipe handed down to them from their parents or some other source, and sometimes have some difficulty in getting them filled satisfactorily. Filing these recipes correctly is one of the things we pride ourselves on, giving them the same care and attention we manifest in filing doctors' prescriptions.

WOODWORTH, Druggist.

### A Matrimonial Trio.

Wednesday, February 23, at high noon Mr. Earl P. Ziesenheim and Miss Dora Swartz were united in marriage at the home of the bride's parents, Mr. and Mrs. Francis I. Swartz, Rev. Bryant Howe officiating.

The ceremony was performed in the presence of about twenty five guests. After congratulations, a splendid dinner was served.

Mr. and Mrs. Ziesenheim will make their home on a farm about eight miles southwest of McCook.

Saturday morning, February 19, Mr. Albert C. Woodress and Miss Clara E. Stinnett, both of Denver, were joined in marriage at the M. E. parsonage in this city. They came down on No. 2 and 9 being late, they were able to return a few minutes after the ceremony. Mr. Woodress is engaged in business in the mountain city.

Mr. Charles H. Hageman and Miss Anna J. Young were united in marriage at the M. E. parsonage, Tuesday evening at six o'clock. They have both been in and around McCook for some years, and are well and favorably known by a host of people, who wish them every blessing as they start traveling the path of life together.

They expect to begin housekeeping at once on a farm southwest of McCook.

### FILED THEIR PETITION.

The ladies of the W. C. T. U. on last Friday evening filed with the city clerk their petition asking for a vote at the next city election on the next adoption or rejection by McCook of the initiative or referendum law. The petition was signed by about two hundred legal voters and residents of the city.

The initiative and referendum law provides that the voters of a city may initiate legislation and for the recall of public officials who prove unfaithful to their trust or refuse to comply with the expressed will of the people they represent.

It is a most desirable progressive provision for the people and should be adopted by the voters of McCook.

### SOUTH SIDE.

Mrs. L. A. Arnold has bought the tenant's building on the Fitch place and will soon move them onto her farm.

Harry Roberson has gone to Lincoln to stay with his brother.

George Rowland's baby has been quite sick, but is now much better.

Corn shucking is still in style on the South Side.

Miss Lynn Arnold has gone to Alliance for a visit of several weeks.

Mrs. Carrie Hollister, daughter of Mrs. L. A. Arnold, is here on a visit.

Kenneth Jacobs is delivering for James McAdams in the city.

Huber's coffee cannot be beat. Coffee from 15 cents to 35 cents, and "Wedding Breakfast" heads the list.

### NOTICE TO LAND OWNERS.

To Jonathan J. Sams, C. K. Critchfield, Heirs of Storm Brähler, Heirs of Richard E. Hatcher, Sarah A. Jarvis, Heirs of Taylor K. Quigley, Mae Patterson, Irene Patterson Murphy, Enoch A. Saxon, John Longmeyer, Heirs of Noah Sawyer, John B. Dunlap, Phoebe J. Taylor, and R. H. Taylor and to all whom it may concern:

The Commissioner appointed to locate a road commencing at the northeast corner of the northwest quarter of section thirty-three (33), Township 4, Range 25, in Fritch precinct, Red Willow County, Nebraska, running thence south three miles on the half section line through sections 33, 4, 28 and sections 4 and 9 in Township 3, Range 28, and terminating at the southeast corner of the southwest quarter of section nine (9), Township 3, Range 25, has reported in favor of the location thereof, also that the public road running north and south for three miles between sections 33 and 34 in Township 4, Range 25, and sections 3 and 4, and 9 and 10, in Township 3, Range 28, be vacated, and all objections thereto or claims for damages must be filed in the County Clerk's office on or before noon of the second day of May, 1910, or said road will be established without reference thereto.

CHAS. SKALLA, County Clerk.

# Work Shoes

When in need of Work Shoes try THE MODEL SHOE STORE

Some Shoes are Good Others are Better But Ours are the BEST

## The Model Shoe Store

SHOE REPAIRING A SPECIALTY

Fisher & Perkins

201 Main avenue

# WANTED HORSES, MARES AND MULES

I will be at Steve Wilson's upper barn, McCook.

## SATURDAY, MARCH 5

to buy mules from 4 to 8 years old, weighing from 1,000 pounds up. Horses and mares from 4 to 15 years old, weighing from 1,100 pounds up. Bring in your big draft horses and mares, chunks and express horses as I ship to three different markets and can pay the highest market prices. No thin, bad haired, skittish horses or mules are wanted. They must be fat. Bring them in, it's your fault if you take them home. REMEMBER THE DAY, THE PLACE AND THE MAN.

ONE DAY ONLY - - - RAIN OR SHINE

# R. F. REYNOLDS.

McConnell files prescriptions.

Typewriter ribbons for sale at the Tribune office.

Drink "Wedding Breakfast" coffee and be happy. At Huber's only.

The Omaha Alfalfa Mowing Co. are paying the highest cash price for baled alfalfa hay on track. For prices and particulars, phone 381.

C. W. DREWY, Manager.

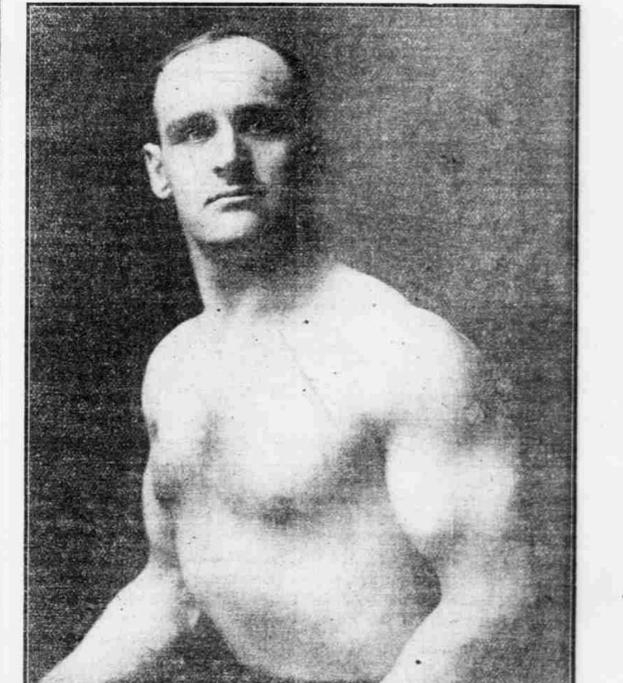
Some potatoes in the east are requiring the growers and employes to hand out sold stamps to purchase with the face of the stamp down, doing it in the interest of the public health.

Huber has everything in olives—plain and stuffed—from 15 cents to \$1 a bottle.

"Received on account," "Paid out," "Cash," "Credit" slips etc., for sale at the Tribune office. Per 1,000, 50c.

ESTRAY—Came to 21430, Feb. 12, one bay horse. Owner can have same by paying expenses incurred. Phone cherry 3311. A. D. Green.

Our line of breakfast stuffs is complete. Breakfast foods and pancake flour, corn syrup and maple syrup. "Old Manse," the best maple syrup on the market. HUNGER.



Dr. B. F. ROLLER, Temple Theatre

## Monday, February 28

Dr. FRANK DUCRAY, GEORGE GION, CLAUDE SIDERS and Local Light-Weights.

Prices . . . . . 50c, 75c and \$1.00 Ringside . . . . . \$1.50