

...ABOUT... SUN RINGS

In regard to the halo around the sun which created much excitement throughout the eastern section of this country, Mr. Justice Stahn, secretary of the astronomical section of the Maryland Academy of Science, says: "Very often, when the heavens are overcast by slight, or light, fleecy clouds, we observe colored rings about the moon and the sun. They are termed halos, or aureoles. I have never observed a halo about the sun in the latitude of Baltimore, but halos about the moon are quite frequent. One of the most brilliant that I have observed in Baltimore occurred some time in the beginning of 1901. Very often the halos do not form a complete circle, but are visible only in sections. Probably the reason we do not notice the halo about the sun is on account of its intense brilliancy, and that we do not look at it directly. The best way to observe halos is to observe the reflection of the sun in a black mirror, black glass or glass smoked on one side. In meteorology the halos are divided into two classes—the corona, which is of small diameter, and the halo, which is of a greater extent. In the corona the color of the inner part of the ring is blue, and the outer red. In the large halo the red is on the inside and the blue outside. The corona is classed as a different phenomena—that is, the light from the sun or moon in encountering the small particles in the cloud or which form the cloud is broken up, scattered or diffracted, like the gratings that Prof. Rawland ruled at the Johns Hopkins university. Diffracted light may be of two kinds. It may pass through fine material and be diffracted like in a transmission grating, or it may be broken up by encountering the fine particles and being reflected. We never have a diffraction caused by a reflection of the light from the small particles in the cloud. The halo is supposed to be due both to diffraction and reflection. When light is diffracted it passes through a medium

which both disperses it and bends it out of its course. Thus the rainbow is produced by the sunlight passing through the drops of water and the water regional ways opposite to the sun. Halos occur only in the higher clouds and are more frequent than the corona. Sometimes the halos intersect each other, and at their intersection round patches are formed, called mock suns. The particles of matter forming the medium for refracting the light are mostly small ice crystals or ice needles. Mr. Gildersleeve, the late president of the Baltimore Astronomical Society, related that at various times he had observed snow storms through the telescope while making daylight observations of the stars and planets. At any rate there is considerable solid matter in the atmosphere that we sometimes observe in sweeping around with the telescope. On rare occasions we can see a bird flying across the field of view, of which not a sign can be seen with the naked eye. Then, again, small specks fly across, looking like small meteors. At one time I observed a ray seeming to have its origin at the setting sun on the horizon and extending as a slender beam clear to the zenith and lost to view a little to the east of the zenith. The mock suns are mostly seen in high latitudes. We can then come to the conclusion that halos and mock suns are simply due to the state of the atmosphere when it contains moisture, ice crystals and snow, and they existed from the remotest times, when the earth had been fashioned to its present condition, and there is no cause for alarm."—Baltimore News.

Proof of Girl's Beauty.

"Is she pretty?" they asked of the young man who was speaking of his fiancée. "Well, I don't want to boast," he replied, "but she always gets a seat on the street car."—Baltimore American.

Queer Things Astronomers See Through Big Telescopes

Thrown From His Cab and Killed.
The following is a most interesting and, in one respect, pathetic tale:—
Mr. J. Pope, 42 Ferrar Road, Stratham, England, said:
"Yes, poor chap, he is gone, dead—horse bolted, thrown off his seat on his cab he was driving and killed—poor chap, and a good sort, too, mate. It was him, you see, who gave me the half-bottle of St. Jacobs Oil that made a new man of me. 'Twas like this: me and Bowman were great friends. Some gentleman had given him a bottle of St. Jacobs Oil which had done him a lot of good; he only used half the bottle, and remembering that I had been a martyr to rheumatism and sciatica for years, that I had literally tried everything, had doctors, and all without benefit, I became discouraged, and looked upon it that there was no help for me. Well," said Pope, "You may not believe me, for it is a miracle, but before I had used the contents of the half-bottle of St. Jacobs Oil which poor Bowman gave me, I was a well man. There it is, you see, after years of pain, after using remedies, oils, embrocations, horse liniments, and spent money on doctors without getting any better, I was completely cured in a few days. I bought another bottle, thinking the pain might come back, but it did not, so I gave the bottle away to a friend who had a lame back. I can't speak too highly of this wonderful pain-killer."

For Backward Bondsmen.

District Attorney Philbin of New York City has devised a winning plan for making bondsmen pay up forfeited bail. He puts the bondsmen's property into the hands of a receiver and then it is a case of pay or bring in the man. The scheme is causing all sorts of consternation among bondsmen, to say nothing of the criminals.

Shower Baths for Boy Pupils.

The experiment is being tried in a large New York public school of giving boys shower baths in the basement. The equipment is such that each boy can have a bath once in two weeks—a good deal oftener than the boys would bathe otherwise. The baths are taken in recess time and the institution is said to be popular.

Satire is the salt of wit rubbed on a sore spot.

To Cure a Cold in One Day.
Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c.

The submitting to one wrong brings on another.

Brooklyn, N. Y., Dec. 2.—Garfield Headache Powders are sold here in large quantities; this shows that people realize the value of a remedy at once effective and harmless. The Powders are of undoubted value in curing headaches of all kinds and in building up the nervous system. Investigate every grade of remedies offered for the cure of headaches and the Garfield Headache Powders will be found to hold first place. Write the Garfield Tea Co. for samples.

Every man who does the very best he can is a true hero.

WHEN YOU BUY STARCH
Buy Defiance and get the best, 16 oz. for 10 cents. Once used, always used.

A little butter added to the bouillon made of beef extract will remove the flavor which is distasteful to many people.

PITNAM FADELESS DYES are as easy to use as soap. No muss or failures. 10c per package. Sold by druggists.

Trust your secret to another and it will be returned badly soiled.

DO YOUR CLOTHES LOOK YELLOW?
If so, use Red Cross Ball Blue. It will make them white as snow. 2 oz. package 5 cents.

Place an apple in bread and cake boxes to keep the contents moist, renewing the apple when necessary.

Mother Gray's Sweet Powders for Children Successfully used by Mother Gray, nurse in the Children's Home in New York. Cure Feverishness, Bad Stomach, Teething Disorders, move and regulate the Bowels and Destroy Worms. Over 30,000 testimonials. At all druggists, 25c. Sample FREE. Address Allen S. Olmsted, LeRoy, N. Y.

Our First "A"-less President.

President Roosevelt is the first occupant of the White House, says somebody who has looked it up, in whose name the letter "A" does not appear. Not only has that letter appeared in the names of all previous presidents, but also in the names of nearly every one of the sixty-one Americans who have received votes for presidents in the electoral college down to William J. Bryan. There are only eight exceptions to this rule.

Better an empty house than an ill tenant.

STATE OF OHIO, CITY OF TOLEDO, Lucas County.
Frank J. Cheney makes oath that he is the senior partner of the firm of F. J. Cheney & Co., doing business in the City of Toledo, County and State aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of Catarrh that cannot be cured by the use of Hall's Catarrh Cure.

FRANK J. CHENEY, Notary Public.
Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1898.
A. W. GLEASON, Notary Public.
[SEAL]
Hall's Catarrh Cure is taken internally, and acts directly on the blood and mucous surfaces of the system. Send for testimonials free. F. J. CHENEY & CO., Toledo, O.
Sold by Druggists, 75c.
Hall's Family Pills are the best.

A friend to everybody is a friend to nobody.

I am sure Piso's Cure for Consumption saved my life three years ago.—Mrs. THOR. ROBINSON, Maple Street, Norwich, N. Y., Feb. 17, 1900.

Life without a friend, death without a witness.

Clear white clothes are a sign that the housekeeper uses Red Cross Ball Blue Large 3 oz. package, 5 cents.

Many go for wool and come home shorn.

Mrs. Winslow's Soothing Syrup.
For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle.

Fools make fashions and wise men follow them.

Jamlin's Wizard Oil Co. send song book free. Your druggist sells the oil and it stops pain.

Excesses in youth are drafts upon old age, payable about thirty years after date.

DROPSY NEW DISCOVERY, gives quick relief and cures worst cases. Book of testimonials and 10 DAY treatment FREE. DR. H. H. GREEN'S SOBS, Box 8, Atlanta, Ga.

Thompson's Eye Water

CAPSICUM VASELINE
(PUT UP IN COLLAPSIBLE TUBS)
A substitute for and superior to mustard or any other plaster, and will not blister the most delicate skin. The pain-relieving and curative qualities of this article are wonderful. A trial will stop the toothache at once, and relieve headache and sciatica. We recommend it as the best and safest external counter-irritant known, also as an external remedy for pains in the chest and stomach and all rheumatic, neuragic and gouty complaints. A trial will prove what we claim for it, and it will be found to be invaluable in the household. Many people say "it is the best of all your preparations." Price 15 cents, at all druggists or other dealers, or by sending this amount to us in postage stamps we will send you a tube by mail. No article should be accepted by the public unless the same carries our label as otherwise it is not genuine. **CHESTERBROUGH MFG. CO.**, 17 State Street, NEW YORK CITY.

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Made easy by the use of the **EAGLE CLAW HAND FODDER FORK**. The only tool invented and manufactured that will handle corn fodder successfully. Agents make big money. Write for particulars and secure the exclusive agency. **RANDLEMAN & SONS, Des Moines, Iowa.**

WESTERN CANADA'S
Wonderful wheat crop for 1900, now the talk of the Commercial World is by no means phenomenal. The Province of Manitoba and districts of Assiniboia, Saskatchewan and Alberta are the most wonderful grain producing countries in the world. In stock raising they also hold the highest position. Thousands of Americans are annually making their homes, and they succeed as they never did before. Move Westward with the tide and secure a farm and home in Western Canada. Low rates and special privileges to homeseekers and settlers. The handsome forty page Atlas of Western Canada sent free to all applicants. Apply for rates, etc. to F. Pedley, Superintendent of Immigration, Ottawa, Canada, or to W. V. Bennett, 801 New York Life Bldg., Omaha, Neb.
If afflicted with sore eyes, use **Thompson's Eye Water**

BATTLESHIP'S WEAKNESS

Barbettes on English Craft Said to Have Sunk Six Inches

The report that the Implacable's barbettes have sunk six inches or so is a very serious one, but while it is an error to minimize the matter, nothing is gained by exaggerating it. We still hope that a good deal of exaggeration will be found to exist in the early reports. So far as we can gather from the vague paragraphs going around the daily press, the thing that has happened is not altogether without precedent. Twice before it has occurred with that system of gun mounting of which the essence is an immense weight supported on a very small base at the bottom of the ship. The principle is, roughly, that of an inverted cone, and has been used in a not very dissimilar form by the French for a good ten years. It has certain great advantages, but like most advantages, there are counterbalancing factors. If anything in the ship's construction is faulty, the whole mounting is likely to sink, and the fault may be created by the strain of docking. This actually occurred with the Japanese battleship Shikishima, and it would puzzle anyone where to lay the blame. So far as we can gather her barbettes guns were moved in dock, and the ship did not happen to be fully supported directly underneath the barbettes. A sinking resulted, and it was remedied by cutting off some of the

base of the cone. Now it was obviously impossible for either builders or gun makers to anticipate an incident of this sort. Probably, we should say, the Implacable trouble is on all fours with that of the Shikishima. The Glory started for China with a defective barbettes; this, so far as we can ascertain, was the direct result of rushing things, parts destined for various other ships being crowded into her so as to complete her in a hurry. It would be interesting to learn whether any Peters were robbed to pay the Implacable Paul. In any case, however, bad as the accident may be, there is no reason for the shriek that a certain class of people love to raise directly anything goes wrong. A number of foreign ships meet similar or somewhat similar accidents. The foreigners, however, are never in a hurry to advertise the fact.—London Engineer.

It is the peculiar quality and character of an undisciplined man, and a man of the world, to expect no advantage, and to apprehend no mischief from himself, but all from objects without him. Whereas the philosopher, quite contrarily, looks only inward, and apprehends no good or evil can happen to him, but from himself alone.—Epictetus.

The Ringmaster of Old

He Used To Wear Evening Dress and White Gloves

A circus without a ringmaster! They used to have black hair, parted in the middle and beautifully smoothed, evening dress (even at matinees) and white gloves. The ringmaster was almost one's earliest hero; the butcher came first, perhaps, and then the policeman and railway guard; but the ringmaster, when his hour struck, thrust these plebeians, these usurers, these Warbucks and Simnels, into impenetrable darkness. That whip was beyond all steels, all truncheons, all bull's eye lanterns and whistles; one would not exchange it for a scepter. The ringmaster's effulgence was superior even to the dimming influences of the clown's wit. That immortal dialogue following upon the bet of a bottle of "wine" (always "wine," what is "wine?" champagne? claret? sherry? port?—port I suspect), that the ringmaster could not answer three questions with plain yes or no; how often have I heard it and how potent it always is! The first question was anything; the second question was anything; but the third, propounded by the clown after long self-communing, was steeped in guile: "Do you still beat your wife?" There is no way out of that; affirmative and negative alike are powerless to rob that "atill!" of its sting; and off goes the clown with his bottle of wine, crack goes the whip, round ambles the old white horse with a back like Table Mountain,

and the signorina resumes her petty capers. And today the ringmaster is seen only for an instant, and the speaking clown not at all!—The Cornhill.

Name Sells the Cigar.

"It takes a lot of thinking to get up a name for a new cigar," remarked the representative of a big cigar manufacturer. "The popularity of a cigar is influenced more or less by the judicious selection of a name. I've known some that didn't go at all under one name to have quite a large sale when put on the market as another brand. A good name for a cigar is one that is short and catchy. It must sound nice, for a name that jars on the ear will hoodoo any cigar. We do a lot of studying when we are about to introduce a new low-priced cigar to the public. At the factory a prize is usually offered for the best name, and there is much consideration given to the selection of the name. The smoker won't stand for a clumsy, unwieldy title, and we have to use judgment if we want to enjoy his patronage."—Chicago Journal.

In the palm of the hand there are 2,500 pores to the square inch. If these pores were united end to end they would measure nearly five miles. Man is the only animal that eats pie and employs a physician.

To the Ladies:

Don't let your grocer sell you a 12 oz. package of laundry starch for 10 cents when you can get 16 oz. of the very best starch made for the same price. One-third more starch for the same money.

GUARANTEED SUPERIOR TO ANY OTHER BRAND OF STARCH MADE. MONEY REFUNDED IF NOT SATISFACTORY.

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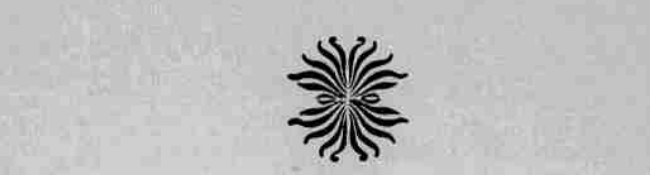
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DEFIANCE STARCH IS THE BIGGEST—THE BEST COLD WATER STARCH MADE.

No Chromos, no Premiums, but a better starch, and one-third more of it, than is contained in any other package for the price.

Having adopted every idea in the manufacture of starch which modern invention has made possible, we offer **Defiance Starch**, with every confidence in giving satisfaction. Consumers are becoming more and more dissatisfied with the prevalent custom of getting 5c. worth of starch and 5c. worth of some useless thing, when they want 10c. worth of starch. We give no premiums with **Defiance Starch**, relying on "Quality and Quantity" as the more satisfactory method of getting business. You take no chances in pushing this article, we give an absolute guarantee with every package sold, and authorize dealers to take back any starch

that a customer claims to be unsatisfactory in any way. We have made arrangements to advertise it thoroughly, and you must have it. **ORDER FROM YOUR JOBBER.** If you cannot get it from him, write us.

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