

LOOKING AT THE NIGHT SKY.

Light From Our Nearest Star Reaches Us In Four and Half Years.

A theory gaining scientific acceptance is that in the void of interstellar space there is a substance which veils from our view the stars beyond a certain limit of distance. Consisting presumably of microscopic and widely scattered particles, it nevertheless makes a barrier to vision when distances are sufficiently great.

In other words, if we were far enough away from the sun there would be enough of these particles between ourselves and that luminary to render it invisible to us.

Dr. C. G. Abbot, of the Smithsonian Institution, says that the estimated density of this "substance" is one trillionth of that of the air we breathe. Pretty thin, one might say. And yet a sphere (in space) whose radius was the distance from the earth to the star nearest to our solar system would contain a quantity of the substance equal to 1000 times the mass of the sun!

It takes eight minutes for a ray of light to travel 93,000,000 miles from the sun to the earth. But the time required for a light ray from the star nearest to the solar system (Alpha Centauri) to reach us is four and a half years. A vast majority of the stars (every one of which is a glowing sun) are so far off that it takes thousands of years for light from them to get here.

Doctor Abbot says that at least one of four of all the stars are double or "multiple"—meaning that they are arranged in pairs, in triplets or in bunches that compose systems of stars. The Pole star probably consists of three distinct suns, but it is so far away that astronomers are not quite certain.

Alpha Centauri, our nearest stellar neighbor, is unquestionably a "double"—that is, to say, two stars, each of which is about the same size as our sun. But the two are more than twenty-three times as far apart as the sun and the earth.

WHY A CAT'S EYES SHINE.

Invisible Rays Striking Retina Said to Undergo Chemical Change.

Not satisfied with the old explanation that a cat's eyes glow in the dark because of the catch and concentrate every little glimmer of light that may be about, scientific men have been making experiments recently to make some other explanation for the eye glow when there is no light at all. This is true of most nocturnal creatures.

The first man to point to what seems to be the true reason was Prof. Bagnion, of Switzerland, who in 1913 suggested that perhaps invisible rays—such as the ultra-violet or infra-red—were transformed by some chemical action into visible rays at the instant of reflection from the eyes.

Now come two Costa Rican professors, G. Michaud and J. F. Tristant, reporting their experiments from the effect of ultra-violet rays on the eyes of men and animals. They filtered a ray of sunlight through a special filter composed of a cell of violet glass containing a solution of copper sulphate and a film of nitrosodimethylamine, thus cutting off all the visible rays and allowing none but the invisible ultra-violet to enter a perfectly dark room.

In the room these rays were allowed to fall upon the eyes of a dog or a man who had been in the dark for fifteen minutes. The pupil immediately became sharply defined in luminous green against the violet black background of the iris.

This startling effect, they believe, is caused by the pigmented iris absorbing the ultra-violet rays while one of the tissues inside the eyeball, perhaps the purple of the retina, fluoresces when they enter.

NEW BRITISH SLOGAN.

Win War in the Kitchen—Bones Are Turned Into Munitions.

Save that old bone, it may kill a German.

This is the thought that flashes through the mind of the English housewife these days following an appeal made to her to conserve all the old bones from the kitchen that they may be used in the manufacture of glycerine and then be incorporated into bombs and shells for the army in France. The movement has the approval of the Ministry of Munitions.

The appeal to the housewife says that bones will produce grease, which yields glycerine for explosives; glue for the making of aeroplanes and bone meal, a fertilizer which increases food crops and thus aids in the battle against the German submarines.

For the bones which were formerly thrown away or burned the housewife will receive one cent a pound from her butcher or margarine dealer, who in turn will receive a profit of one cent a pound in turning them over to the general collector, to whom a fair profit also is allowed.

From the enthusiastic response from the women in England it begins to look as if the plan to "Win the war in the kitchen" will prove popular with those unable to go to the front or otherwise offer their services to the Government.

Soldier Leaves \$1,500 to King. Lieut. John Willis, who was killed at the front in Flanders, left a will directing that \$1,500 of his estate of \$4,500 be given to King George.

"Humbly requesting that his Majesty apply the same in the reduction of the national debt."

ALMOST HELPLESS FROM RHEUMATISM

Only Able to Move About on Crutches—Dr. Williams' Pink Pills Restored Activity.

Inflammatory rheumatism, acute rheumatism and rheumatic fever are different names for practically the same thing. It comes on with hardly any warning. The pain is excruciating, and there is a tendency of the disease to attack the heart, when it may have fatal results.

Any one who has suffered from an attack of inflammatory rheumatism knows that the usual treatment is highly unsatisfactory. External applications of hot cloths and liniments and internal doses of salicylates to relieve the pain are not enough, for they do not drive the poison from the blood, and the sufferer is liable to renewed attacks whenever exposed to cold or dampness.

To cure rheumatism so that it will stay cured the rheumatic poison in the blood must be driven out, and the blood made rich and red. When the blood is pure there can be no rheumatism. Dr. Williams' Pink Pills build up the blood, make it rich, red and pure and in this way cure the most obstinate cases of rheumatism. Mr. George Harbottle, R. R. No. 1, Fever-sham, Ont., is one whose cure through the use of Dr. Williams' Pink Pills is most striking. His mother gives the particulars of his attack and cure as follows:—Some years ago while my son was working as a blacksmith in a Michigan lumber camp he was attacked with rheumatic fever. He was at once taken to a hospital at Marsenett, and was there under medical treatment for four months with but little or no relief. He then decided to go to Mount Clemens, where he took the baths for three weeks, but did not find any benefit from them. By this time he felt that his case was hopeless, and decided to return home.

When he reached home he could only move around by the use of a crutch and a cane. One knee was so stiff that he could not bend it, and most of his joints were swollen out of shape. He could neither dress nor undress himself and had to be helped like a child. I urged him to try Dr. Williams' Pink Pills and finally he consented to do so. He had only been taking the pills a few weeks when he could limp about without the crutch, and his appetite greatly improved. This gave him new courage and as he continued the use of the pills he showed constant improvement, and was able to walk about outside. He continued to use the pills for some four months, by which time every symptom of the trouble had disappeared, and he went to his work in Michigan a cured man. His case was well known to the neighbors around here and his cure was looked upon as marvelous, for everyone thought that at the best he was doomed to be a rheumatic cripple.

It is because they have made such wonderful cures as Mr. Harbottle's that Dr. Williams' Pink Pills have a world wide reputation, and are the only medicine used in thousands and thousands of homes. You can get these pills through any medicine dealer or by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

Crows and Foxes.

Although crows build their nests in trees where no fox can climb, and although they can escape from any fox by flying, they, for some reason, seem to have a mortal antipathy to foxes, and every time they see one they lose no opportunity to harass it.

According to an experienced hunter and naturalist of Bangor, Maine, the best time to observe the malice of the crow against the fox is on a cold day in early winter, when the hounds can follow a trail without touching their noses to the ground. If there are any crows about, they can be relied upon to show where the fox is running.

On such occasions, says the hunter, I have seen crows watch for running foxes for hours. As soon as a fox emerged from the thick woods every bird would hover over the running beast and peck at it with every evidence of bitter hatred. Several fox hunters that I know make a practice of following the crows when foxes are roaming the back lots.

Minard's Liniment Cures Colds, Etc.

At Last.

He had been going from church to church trying to find a congenial congregation, and finally on Christmas Eve he stepped into a little church just as the congregation read with the minister:

"We have left undone those things which we ought to have done, and we have done those things which we ought not to have done."

The man dropped into the nearest pew with a sigh of relief.

"Thank goodness," he said, "I've found my crowd at last."

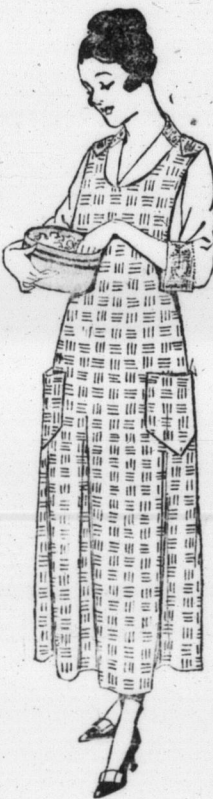
In feeding cattle this winter use a maximum of roughage and a minimum of concentrates. In a time like this high finish may not be most profitable.

Gunns Shur-Gain Fertilizer

Practical Designs



Made for work or play are these little overalls for the little boy. McCall Pattern No. 7824, Boy's Overalls, in 6 sizes, 4 to 14 years. Price, 15 cents.



The cover-all apron is a joy to the housewife. McCall Pattern No. 6920, Ladies' and Misses' One-Piece Apron. In 3 sizes, small, medium and large. Price, 10 cents.

These patterns may be obtained from your local McCall dealer, or from the McCall Co., 70 Bond St., Toronto, Dept. W.

STORMY WEATHER HARD ON BABY

The stormy, blustery weather which we have during February and March is extremely hard on children. Conditions make it necessary for the mother to keep them in the house. They are often confined to overheated, badly ventilated rooms and catch colds which rack their whole system. To guard against this a box of Baby's Own Tablets should be kept in the house and an occasional dose given the baby to keep his stomach and bowels working regularly. This will not fail to break up colds and keep the health of the baby in good condition till the brighter days come along. The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Get Out Your Sap Buckets.

Farmers and others who have maple sugar outfits, even if they have not been in use for years, should put them to work this year. There is a sugar shortage, and Canadian maple trees should be made to produce to the maximum. So even if you haven't the most up-to-date equipment, tap all the trees you can and make the most of the facilities you have on hand. There'll be a good market for all the maple sugar and syrup produced.

MURINE Granulated Eyelids.

YOUR EYES.

Murine Eye Remedy.

Every shovelful of coal you waste lowers the efficiency of the man on the firing line, lowers the temperature of the cantonments, reduces the speed of the submarine destroyers, diminishes the force of the projectile and slackens the speed of the munition plant.

Whether it is a home or merely a house depends upon the folks who live there.

Gunns Shur-Gain Fertilizer

Are Popular West of the Great Lakes

Mrs. W. J. Vale Talks of Dodd's Kidney Pills.

She Also Tells How Her Dyspepsia Was Cured By Using Dodd's Dyspepsia Tablets.

Pandora, Alta., Feb. 25th.—(Special)—"We are never without a box of Dodd's Kidney Pills in the house." That's what Mrs. W. J. Vale, a well-known and highly respected resident of this place has to say of the great Canadian kidney remedy. "My husband suffers from lumbago, and they always help him," is the reason that she gives.

"I must also tell you," Mrs. Vale continues, "what Dodd's Dyspepsia Tablets did for me. They cured me of a very bad attack of dyspepsia. I have also derived great benefit from the use of Dodd's Kidney Pills."

It is evidence like this that proves that the Dodd's remedies have gained a permanent place in the family medicine chests of the West. Dodd's Kidney Pills are particularly popular. The success with which they have been used to treat all kinds of kidney ailments from backache to rheumatism and Bright's disease have earned for them the gratitude of thousands of people on this side of the Great Lakes.

"LINES"—TO A BEAR.

How the Drawing of Two Simple Lines Altered the Picture.

A feat, once performed by Bret Harte, to the warm applause of a brother writer, might, after all, be considered as the legitimate and proper work of a poet; certainly it gives evidence of a very ready and very felicitous imagination. Harte was the first editor of the Overland Monthly, and the story of the origin of that magazine's famous cover is thus told in Mr. H. C. Merwin's Life of Bret Harte.

The cover of the Overland was adorned with the historic grizzly bear that, standing on the ties of the newly laid railway track, with half-turned body and lowered head, seems prepared to dispute the right of way with the locomotive that might shortly be expected to come screaming down the track. There was originally no railway track in the picture; merely the bear. How the deficiency was supplied Mark Twain explains in a letter to Thomas Bailey Aldrich:

Do you know the prettiest fancy and the neatest that ever shot through Harte's brain? It was this:

When they were trying to decide upon a vignette for the cover of the Overland a grizzly was chosen, and the page was printed with him on it. As a bear he was a success—he was a good bear. But then, it was objected, he was an objectless bear—a bear that meant nothing in particular—simply stood there snarling over his shoulder at nothing—and was painfully and manifestly a boorish and ill-natured intruder upon the page. All hands said that—no one was quite satisfied. They hated badly to give him up, and yet they didn't like to have him there when there was no real point to him.

Presently Harte took a pencil and drew two simple lines under his feet, and behold! he was a magnificent success. The ancient symbol of Californian savagery snarling at the approaching type of high and progressive civilization, the first overland locomotive! I think that was nothing less than inspiration itself.

Newton had just discovered why the apple fell. "But," cried the anxious office-seeker, "why doesn't the plum fall?"

Minard's Liniment Cures Diphtheria.

Cause for Suspicion.

When the train, with a tremendous crash, came to a full stop between stations, a worried-looking man stopped a brakeman who was running down the track and demanded to know the worst.

"What is it? An accident?"

"Some one pulled the communication cord," was the reply. "The engineer put on the brakes too quickly, and one of the cars left the rails. It will take us four hours to clear the line."

"Four hours!" exclaimed the passenger. "But I'm to be married to-day!"

The brakeman turned on him with instant suspicion. "Look here," he demanded, "you aren't the man who pulled that cord, are you?"

Baby of Mine.

Just a wee thing with a dainty air, And a shining mop of golden hair, With eyes so soft and wistful, too, That they bruise and hurt the heart of you.

Warm little hands that seek and cling And make you love this baby thing, Dear little head against your breast—Cuddling there like a bird in its nest, Fragrant lips as cool and sweet As a budding rose in the summer heat—

But I open my eyes—and smile—and sigh—Baby of mine—the dream's gone by!

The Ship of State.

In spite of rock and tempest's roar, In spite of false lights on the shore, Sail on, nor fear to breast the sea! Our hearts, our hopes, are all with thee, Our hearts, our hopes, our prayers, Our faith triumphant o'er our fears, Are all with thee,—are all with thee!

Minard's Liniment Cures Distemper.

FERTILIZER

ONTARIO FERTILIZERS, LIMITED WEST TORONTO, CANADA

A LITTLE FRENCH HEART.

"Madame la Presidente:—Permit a little French heart to come and present to you his wishes the most sincere. My parents join with me in sending their best compliments for the New Year, and in thanking you for your great kindness. I thank you all, dear good ladies, for the nice things you have put in with the clothing addressed to my dear Papa. Every evening in my prayers I ask God to spread his blessing over you. Receive again Madame la Presidente and all the ladies, the best wishes of your little protegee.—Charles Opdebeck."

This little letter has just been received in Toronto, by the President of the "Friends of France," who knows what interest it will have for many people in every part of Canada, who have so generously sent help to the hospitals and refugees. Charles and his mother were repatriated from the North of France not long ago, and find themselves with little or nothing to live on. During their captivity the mother was struck by a shell, and lost a leg. The father is an ambulance driver for a hospital in Calais, and this is what he says: "Dear and Good Ladies:—I thank you so much for the parcel that has just come. It contained 4 pairs of socks, a flannel shirt, chocolate, sugar, soap, cocoa and soup. If you knew how happy we are to have these things, for now it is so hard to live that my poor wife can never get anything nice. She is so happy to be near me at Calais, but unfortunately the 'echoes de Boche' come often to bombard us. On Monday they threw a dozen bombs, but since my wife was struck, she has been a terrible fear. We hope that the Boches will soon have finished their crimes, and we can be happy again in our dear country. God watches over us and will protect us. Receive, good ladies, my affection and thanks the most sincere."

Le Soldat Arthur Opdebeck.

The "Friends of France" heard of this family through one of the hospitals that they help near Calais, which is visited daily by scores of refugees. The nurse in her last letter says: "Without Canadian and American help we could not exist. Many hospitals have had to shut down. The cost of living is so high and the government can give us so little. Many of our wounded are very ill, and need nourishing food. One egg costs 13 cents and butter and meat are \$1.00 a pound. Just now enormous numbers of refugees are arriving from the North of France, in a state of exhaustion of which you can truly form no idea. It is especially at the beginning that these families need help, when they are so weakened and demoralized. It is a question of material help to revive their morale, because after a time they pick up wonderfully, and in a few months gather together a little home less sad. All the second-hand clothing you send, which is so good, finds owners immediately."

The "Friends of France" is an incorporated society under the War Charities Act. Its headquarters are 216 Poplar Plains Rd., Toronto, and the President, Mrs. Wells, will gladly receive and acknowledge gifts in money or kind, such as clothing, food and hospital supplies.

Minard's Liniment Cures Garglet in Cows.

On the farm the automobile is distinctly a business necessity, for a farmer, unlike the city man, can not jump on a trolley when he wants to see a customer or buy a tube of shaving cream. He doesn't buy a car merely for the sake of seeing the wheels go round—he really needs it in his everyday farming life.

WOMEN! IT IS MAGIC! LIFT OUT ANY CORN

Apply a few drops then lift corns or calluses off with fingers—no pain.

Just think! You can lift off any corn or callus without pain or soreness.

A Cincinnati man discovered this ether compound, and named it Freezone. Any druggist will sell a tiny bottle of Freezone, like here shown, for very little cost. You apply a few drops directly upon a tender corn or callus. Instantly the soreness disappears, then shortly you will find the corn or callus so loose that you can lift it right off.

Freezone is wonderful. It dries instantly. It doesn't eat away the corn or callus, but shrivels it up without even irritating the surrounding skin.

Hard, soft or corns between the toes, as well as painful calluses, lift right off. There is no pain before or afterwards. If your druggist hasn't Freezone, tell him to order a small bottle for you from his wholesale drug house.

Minard's Liniment Cures Distemper.

Minard's Liniment Cures Diphtheria.

Minard's Liniment Cures Garglet in Cows.

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The Asquith Family.

Mr. Asquith's family have been rendering great and distinguished services in the war. His third son, Brigadier General Arthur Asquith, is reported to have been seriously wounded in France, having received a compound fracture of the ankle while reconnoitring a German position. He has been wounded on two previous occasions, and has a splendid military record. At an early stage of the war he joined the Royal Naval Division, and as a sub-lieutenant in the Anson Brigade participated in the defence of Antwerp. He won his D.S.O., to which he was recently awarded a bar. His high military aptitude is betokened by his rapid promotion. One of his brothers, Cyril, has also been recently wounded. Raymond, the ex-Premier's eldest son, fell in action more than a year ago. He had a very promising career at the Bar and in politics.

GIRLS! WHITEN SKIN WITH LEMON JUICE

Make a beauty lotion for a few cents to remove tan, freckles, sallowness. Your grocer has the lemons and any drug store or toilet counter will supply you with three ounces of orchard white for a few cents. Squeeze the juice of two fresh lemons into a bottle, then put in the orchard white and shake well. This makes a quart of the very best lemon skin whitener and complexion beautifier known. Massage this fragrant, creamy lotion daily into the face, neck, arms and hands and just see how freckles, tan, sallowness, redness and roughness disappear and how smooth, soft and clear the skin becomes. Yes! It is harmless, and the beautiful results will surprise you.

Store the Ice.

By storing all the natural ice that it is possible to harvest, ice companies, farmers, creamery owners and others will help materially in saving ammonia this year. Even at the present time there is an absolute shortage of ammonia in the United States of 60,000,000 pounds per annum for war and commercial purposes.

MONEY ORDERS

Pay your out of town accounts by Dominion Express Money Orders. Five dollars costs three cents.

A Word For The Peanut.

The peanut is a substantial food, a wholesome, palatable food, declare the people who know. Six ounces of shell-peanuts equal 2 1/3 ounces of beefsteak, 5 ounces of codfish, 1 ounce rice, 4 1/2 ounces eye bread, 35 ounces of spinach, 5 ounces of apple, or 6 ounces of bacon.

Mansonsville, June 27, '13. Minard's Liniment Co., Limited.

Yarmouth, N. S. Gentlemen,—It affords me great pleasure and must be gratifying to you to know that after using 36 bottles of your Liniment on a case of paralysis which my father was afflicted with, I was able to restore him to normal condition. Hoping other sufferers may be benefited by the use of your Liniment, I am,

Sincerely yours, GEO. H. HOLMES.

Sap Running Begins Soon.

The first run of Canadian maple sap begins down in Essex County, Ontario, generally about March 20. Gradually the warm weather works north east and the season ends up in Quebec when the leaves break the buds.

Minard's Liniment Cures Garglet in Cows.

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ROYAL YEAST CAKES

The best yeast in the world. Makes perfect bread.

EWGILLET COMPANY LIMITED TORONTO, ONT. WINNIPEG MONTREAL

Where crops are rotated, neither fungus nor insects gain headway on the farm.

FOR SALE WEEKLY NEWSPAPER IN WEST-ERN Ontario. Doing a good business. Death of owner places it on the market. A grand opportunity for cash. Apply Box 52, Wilson Publishing Co., Limited, Toronto.

WELL EQUIPPED NEWSPAPER and job printing plant in East Ontario. Insurance carried \$1,500. Will go for \$1,200 on quick sale. Box 69, Wilson Publishing Co., Ltd., Toronto.

MISCELLANEOUS CANCER, TUMORS, LUMPS, ETC. Internal and external, cured without pain by our home treatment. Write us before too late. Dr. Bellman Medical Co., Limited, Collingwood, Ont.

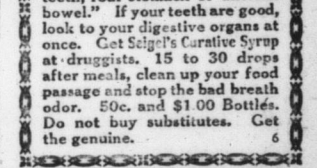
The Soul of a Piano is the Action. Insist on the "OTTO HIGEL" PIANO ACTION

Doctors Recommend Bon-Opto for the Eyes

Physicians and eye specialists prescribe Bon-Opto as a safe home remedy in the treatment of eye troubles and to strengthen eyelight. Sold under money refund guaranty by all druggists.

A Cure for Bad Breath

"Bad breath is a sign of decayed teeth, foul stomach or unclear bowels." If your teeth are good, look to your digestive organs at once. Get Selig's Curative Syrup at druggists. 15 to 30 drops after meals, clean up your food passage and stop the bad breath odor. 50c. and \$1.00 Bottles. Do not buy substitutes. Get the genuine.



Dandruff and Itching

The Cause of Falling Hair

Rub spots of dandruff and itching with Cuticura Ointment, next morning shampoo with Cuticura Soap and hot water. Rinse with tepid water. Trial free. These fragrant, super-cream