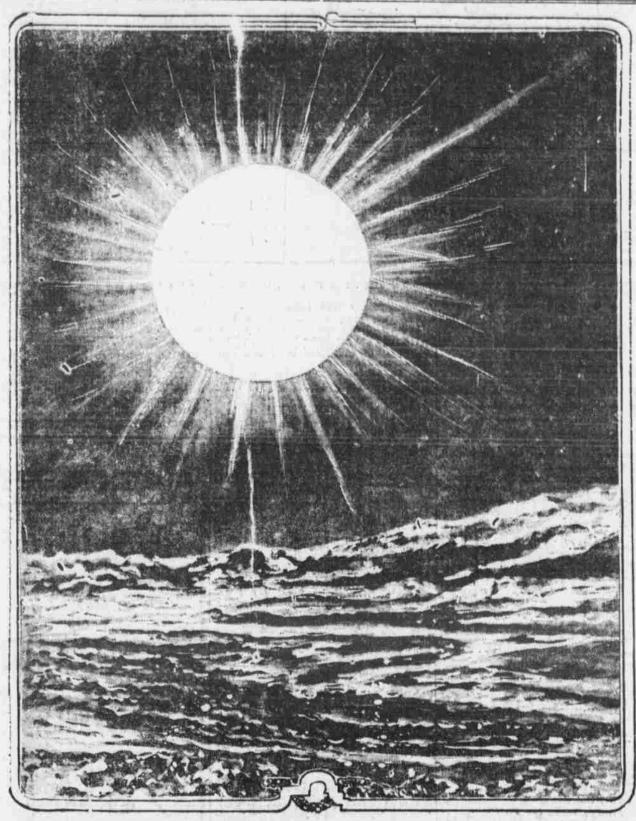
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Wonders of the Heavens :: By Garrett P. Serviss

Sirus, the Magnificent and the Terrible-Whhat Would Happen to the Earth If It Should Come Within the Rays of the Dog-Star!



Sirius, a celestial furnace of glowing hydrogen and forty times hotter than the sun; a star one thousand miles a minute and, if it were nearer the earth, would make our world red hot.

giant suns of space the more wonderful native sun.

the speed of light gives a ready means blast from an opened furnace door. fact that although Sirius is in reality bright as the sun now looks to us! so much greater than the sun, it looks relatively insignificant.

Light takes about eight and a half minutes to come to us from the sun. But it takes about eight and a half years

to come from Sirius! As a minute is to a year, so is the distance of the sun to that of Sirius.

In other words the great Dog star is about 526,0000 times as far away as is

But the brightness of any shining object diminishes in proportion to the source of the increase of its distance. Accordingly, if Sirius were actually just as bright as the sun (when viewed from ture of the jellythe same distance), it ought to appear 528,000x526,000, or 276,676,000,000 times fainter the foundation of than the sun to our eyes. But measurement of its light shows that it appears only about 7,000,000,000 times fainter than the sun, from which immediately follows

Now, starting with this fact, let us imagine that we could swiftly approach cestor, with its five Sirius, or that the earth could quit the boofs on each les. sun and fly away with us to become a satellite of the Dog Star. The experiences that we should have during such a ourney would surpass the boldest flights of the imagination.

times.

When we had gone exactly half way from the sun to Sirius, on looking back we would perceive that the sun has diminished to a second magnitude star. But all this is nothing in comparison

bright as it now appears to us. constantly grow brighter, until at last spect; and no matter what comes, you we would begin to receive a new lay- are never to lead yourself to the cause light upon our far-journeying earth, and that does not seem to you to be backed this new daylight would be Sirian sun- by the evidence of facts."

To Keep Skin in Fine Condition All Summer

It would be much better for the skin if little cream, powder or rogue were used during the heated term. Mixed with perspiration, dust and grime, three things are anything but beautifying. Ordinary to inquire if he entertained the same mercolized was will do mare nor the complaxion, and without giving an elly
streaked spotted or pasty appearance? It
is the ideal application for the season, as
it not only keers the pores clean, but
daily removes particles of scarf skin
which have have been soled by airt or
the more obvious it is to me that the most
the more obvious it is to me that the most

collect was obtained at any drugatore, heaviest penalties of existence cling about will completely tenovals like worst ompiexion. It is a need at night like cold
cressmand washed of in the morning.

To keep the skin from a stans or winks,
ling, or to evercome such condition, there's
nothing better the standard of the worst. To keep the skin from a stans or winks,
ling, or to evercome such condition, there's
nothing better the standard of the worst. This must be true, since nothdissilving I ounce powdered saxolile in not knowing.

The more that is learned about the we had been accustomed when near our would mount to thousands of degrees.

suns like the one that makes our day. offable splendor, blinding, dazzling, over- would begin to dissolve in hot vapors. whelming, scorching and burning like a

of comparing the distances of the sun | Then the brightness of Sirius would not in its fascination, straight into the flame and of S.rius, and upon the difference be morely forty times as great as that of an electric arc and periahes before its between those distances depends the star now looks to us, but forty times as astonished senses can feel the burning And the heat would be in similar proportion. The temperature on the earth

The oceans would explode into superof these great super-sure is the Dog star, to Sirius as it really is to the sun, its mountains would run down and gush in Sirius. It equals probably thirty or forty new solar master would appear with in- floods of molten fire. The solid globe Our great journey would end like the flight of the dazzled month, which steers touch of the terrible death that it has

Huxley and His Strange Dream

ignorantly invited.

By REV. THOMAS B. GREGORY,

The great English scientist saw more things and greater things with his of political economy or science, or "mind's eye" than he did with the eye theology-it made no difference, his reply of flesh. Looking into the quivering struc-

f'sh he saw therein modern biology. He gazed on the horse upon which he took the conclusion that its actual bright- and in the distant his daily exercise ness must exceed the sun's about torty background of the early Eccene he saw its strange anhoofs on each leg. He bent over the tiny, bit of protoplasm and in it

there was revealed to him the grand proceasion of life, from Ameba to the pri-

We would no longer have any daylight, with another vision that came to Huxley but only starlight. Sirius itself would -the influence of which abided with him still be only a star, but a star of ex- to the end. He had a dream, and in the traordinary brilliance, forty times as dream he say himself dedicated to truth. A stern, yet kindly, voice said to him, As we continued on our way, the sun Thomas Huxley, you are to maintain would become fainter and Sirius would your intellectual honesty and self-re-

shine, which would possess a quality of To the voice he answered: "While I intrinsic brilliance excelling that to which live my motto shall be, truth for truth s authority as being neither greater nor words, are not all things a unit? ices than what it can prove itself to be

big. I will tolerate everything but lying." And he kept his word. When he lost his beautiful little pay Noci, the good Charles Kingsley wrote him

weather. By constantly keeping the comtoward perpetuating a youthful counte-nance than any of the art; or artifies true. All the greatest rewards and all the

"I do not know," he would say to those who asked him about the things of which he had no knowledge. Was it a question was ever the same, "I do not know."

And so Huxley lived and died-true to his beautiful dream, always searching for the truth, always loving the truth when he found it.

Science

By EDGAR LUCIEN LARKIN.

Q .- 'Can you tell why the circle is diided into 360 degrees" is this arbitrary made by rule?

A .- When history began the Babylonians were using this division. Very early observers, without telescopes, sextants, armillary spheres or any instrument of geometric precision, thought that the earth turns on its axis 360 times while moving around the sun once.

They could not possibly have diswered the modern fact that the earth turns around 366.2560% times when making one exact revolution around the aun. Question-What is your opinion of the transmutation of matter as promulgated Armed by Sir William Ramsey? In the ultimate, what distinction can

be drawn between organic and inorganic straight at those matter, since mind is matter or force? gunmen. Therefore, is it not but matter or force under a different aspect or relation to own sake. I will regard the value of surrounding appearances, or, in other He grabbed one

worth. I will smite all humbugs, however | made by Ramsay that is absolutely proved erally threw him through the glass door is that of radium into helium. Buther, of the vestibule into the night. And the ford filled an alriight high vacuum glass other gunman jumped and ran for his tube with helium by morely leaving it radium during several days. heard him tell how he performed every

detail of this now classic experiment. In nature, prantum mutates into radium that is, where uranium exist radium is always found in the mineral, and where the landscape, the conductor and trainno uranium exists no radium has ever men came back. The porter went smil- forget. been discovered. This mutation is wrought ing at his work making up the bertha. by nature with an exceedingly slow rate. and vast periods of time are required for

radium and then as helium. Answer-(2) The ultimae distinction between inorganic and organic matter is less added zest. the inscrutable mystery-life. Nothing is ing else exists.



A Fascinating Group of French Fashions

(1) On the left of the picture (figure standing at back) is shown a striking hat trimmed with an enormous pair of wings, for tailor-made wear.

(2) The seated figure on the left is wearing one of the Italian military cloaks which have gained such rapid favor, this example being in vivid rose with gown of dark hyacinth.

(3) The attractive taffeta gown (standing) with the pointed waistcoat of Roman-striped satin is in pale reseda glace, the jaunty little hat being black, with reseda plume. (4) The chic effect of a white waistcoat. In the center of the group is seen the latest thing in waistcoats cut with a medici collar; there is an inner vest of Roman stripe.

(5) On the next figure is shown a Dolly Varden hat with brim of frilled tulle, also the newest style of collar in the ubiquitous Roman stripe.

(6) A charming toilette d'ete (seated in front). Black velvet is used with very chic effect for the collar, cuffs, and sleeve ribbon of the crepe gown with pleated mousseline tunic.

(7) Another illustration of the furore for stripes is the striking model standing on the right. The cloak has a collar of plain cloth matching the darker stripes.

Life Lessons--Two Studies in Chromatics

By ELBERT HUBBARD

sarcastic, silly and humorous, in the direction of the colored contingent, let us as follows: not forget that porter on a train that

was recently held up in Mississippi. Two masked men with drawn revolvers entered the Pullman car. They called aloud for the passengers to hold their hands. And the passengers

cheved. The porter, how refused. ever, almply went And all the time they were shooting.

of the bandits by Answer-11 The only transmutation the collar, pushed him to the door and lit-

Not a passenger lost a purse, a grip, & watch, or anything but his peace of mind.

After the gunmen were routed, and safety and serenity had settled down on Some one noticed, all at once, that he was an olive green in tone instead of his he claims to love. Tell him, without any years. uranium to disintegrate and appear as usual rich chocolate hue. However, he quarreling or show of temper that you insisted that he was not hurt, and laugn- would not dare risk marrying a man He really did not know what to do with ingly tackled his work with a little need-

Suddenly he sank to the floor. In one minute he was dead. Three bullets had gone completely through his chest.

The idea is slowly gaining ground that the first romance of love had worn off. physical culture

the Caucasian has no monopoly, that the night the hoodlungs had gathered and Sherman act can recognize, on either were sending dead cats and other delecta-While many are passing pink persiflage, courage, loyalty, love or gratitude.

> bookish gentleman, about twenty years hoodlums for their actions in restraint of when new, ago was working the Wire Grass circuit trade, and begged that they go along with a variety show. The town that was peaceably and leave the Chinaman to his the scene of this story was one of those textile ablutions. well-to-do county seats where the sons of the best citizens at times transform them- transferred their attentions from the time, even when fires have proved inselves into hooligans and hoodiums. A Chinaman had come to town and call "the dude actor." opened up his little laundry; and one

Advice to the Lovelorn

By BEATRICE FAIRFAX.

"Honor Thy Father."

left town the next day on the 9:40 and Dear Miss Fairfax:

I am a young girl of twenty and keep company with a young man six years my senior. This young man claims he loves me, but whenever we are together lie swears and comments about my father, which aimost distracts me. Now I have said to him. "If you have respect for me syou must have respect for my father," and we have had several quarrels on account of it, but nothing changes him. My father is a sober man, never disgraced his wife nor his children. Do you think this man really loves me or could ever make me happy if he continues passing ugly remarks about my father?

PERPLEXED.

Hency thy father and thy mother' is Dear Miss Fairfax:

a commandment that you must never

who has always been good to you, you could do was accept it as a trustee. feel that he will always be selfish in his And now Colonel Choynski has decided the lighter freckles vanishing entirely. attitude toward what you ask of him. what he will do with the ten thousand

bles through the front window.

At this Colonel Choynaki anly smiled. long-armed swings, all without prejudice. The hoodlums hit the dirt, and suddenly, and soon there was no one on the spot but Joe and the Chinaman. And so Joe went along to his hotel. He

duly forgot the incident. And the years passed. The Chinaman made money in his industrious and economical fashion. A few weeks ago he was taken ill.

sorely stricken by the black wing of death. The doctor told him he would not survive. He sent for a lawyer and made his will.

and he left all of his money, about \$10,000 to Joe Cheynaki. Then the Chinaman died. The lawyer

used the wires and found that Joe Honor thy father and thy mother' is Choynski was in Pittsburgh, acting as director of the Pittaburgh Athletic club.

The money was sent to Joe Choynski. who falls to respect age; that if he cannot it, and explained that since he had never

Household Suggestions

Here is a hint which will be found useful at spring-cleaning time. Take sufficient flowers of sulphur to give a golden tinge to about one and one-half pints of water. In this liquid boll about four or five bruised onions, or some garlic. Strain off the liquid, and let it stand till it is A second piece of news comes to us Joe Choynaki, about this time, came cold. Then take a soft brush, dip it in by on his way from the theater to the the liquid, and wash any of the gold It seems that Colonel Joe Choynski, hotel Noticing the excitement he stopped, frames, that require restoring. When it prize fighter and ambidextrous, charming, sized up the situation, gently chided the is dry, the gliding will be as bright as

> Blocks of camphor dispersed in all cerners of damp rooms in a new house will And then it seemed that the hodiums effectually banish dampness in a short Chinaman to what they were pleased to effectual. They should be simply laid on paper, or on the bare shelves of a damp He waded in, gave out upper cuts right ally decrease in size, and when they fincom or linen closet. The blocks graduand left, with short-arm jabs and a few ally disappear shauld be replaced until their purpose is served

To remove paint from a dress take a amel-hair brush, dip the point of it in turpentine, and just damp the parts that are stained. Let garment dry and then rub briskly, when the paint will fail off in a dust. If it does not all come off re-

Don't Ride Them With a Veil; Remove Them With the Othins Prescription

This prescription for the removal of freckles was written by a prominent physician and is usually so successful The Chinaman, it seems, had written in removing freekles and giving a clear, Have a plain talk with the man who Joe's name out on a piece of butcher's beautiful complexion that it is sold by does not respect the parents of the girl paper with a stick and kept it all these Sherman & McConnell Drug Co., or any druggist, under guarantee to refund the money if it fails.

Don't hide your freckles under a veil: get an ounce of othine and remove them. tor your sake be courteous to the father carned it, it wasn't really his and all he Even the first few applications should show a wonderful improvement, some of Be sure to ask the druggist for the If he insists on secering at your father dollars. He has started a school in San double strength othine; it is this that is

He died that his passengers might live, he might sneer at you some day when Francisco to give lessons to Chinese in sold on the money-back guarantee. Advertisement.