SOME RAYS DO NOT REACH US.

If They Did They Would Probably Destrey Life as It Exists on Our Planet. Daylight and Sunlight Differ Almest as Much as Do Wine and Water.

"As clear as daylight" expresses in ordinary language a maximum of plainness and obviousness. Nevertheless daylight is one of the most complicated and capriciously variable of all natural phenomens.

Almost everybody you meet will tell you that daylight and sunlight are different names for the same thing. They think they know that much of astronomy anyway. But astronomy does not teach anything of the kind. Astronomy simply tells us that the sun is the pri mary cause or source of daylight, but it does not say that daylight and sunlight are identical. In fact, they dif fer almost as much as do water and

But the degree of difference varies. Daylight is a mixture of two kinds of light, and its quality is continually changing, as everybody who has ever had anything to do with photography knows. The proportions of the two kinds of light that make daylight are not the same from hour to hour and hardly from minute to minute. In clear weather, under an open sky,

with the sun high in the beavens, daylight, says Professor Nichols of Cornell, is almost entirely sunlight. A white surface exposed to an unobscured sky receives directly from the sun 85 per cent of the light that Illuminates it and only 15 per cent from other parts of the sky dome. This other part of the illumination

is called skylight, and it consists of light, nearly all of which came originally from the sun, but which has changed in quality by reflection from the earth, from the clouds and from dust and vapor in the air. Many of the rays that characterized the original sunlight have been absorbed by the reflecting substances, so that what nains is no longer the same thing as before.

On a completely overcast day there is no sunlight, properly so called, but only skylight. Whether the sky is overcast or not the intensity of daylight varies with the hour of the day and with the season. This is due to differences in the elevation of the sun. These variations in the intensity of daylight are surprisingly great. The intensity is on the average ten times as great in midsummer as in midwinter, but this average comes far from expressing the utmost difference that can exist, for investigation has shown that between the clearest summer day and the darkest day of winter the ratio of the intensity of daylight may be as great as 300 to 1

Besides, the quality of daylight is continually changing on account of the variations in the relative amounts of the different rays of the spectrum that are mingled in it. The spectrum of light is a gamut of vibrations, and the result of the selective action exercised by the substances and vapors, from which the light has been reflected and through which it has passed is to produce variations of color and of intensi ty of color, as well as of the quantity of invisible radiations present, and these variations are not the less real always fully aware of them.

As to pure sunlight, we never see on the earth. The light that arrives to us from the sun has neither the color nor the intensity that it possesses be fore it enters the atmosphere. The ultraviolet rays especially are almost completely screened off by the atmos phere, and if they reached us in their full force it is probable that life as now organized on this planet would be destroyed by them.

Every different world has its own daylight, although all may be illuminated by the same sun. Not only does relative distance affect the intensity of daylight on different planets, but the constitution of their various atmos pheres has an equally great effect. Venus has a daylight twice as intense as ours; Mars one-half as intense. On Jupiter the intensity is 1-25 of that on the earth; on Saturn, 1-90; on Nep-

But each of these planets has an at mosphere peculiar to itself, and thus the differences of daylight upon them are made still more remarkable. This is one of the first things to be taken into account in all speculations about the babitability of those other worlds. -Garrett P. Serviss in Spokane Spokes-

A Wonderful Word.

Confidence! What a wonderful word it is: How much it does to make a despondent man or woman feel better! How often it has lifted a business man out of the deepest despondency and given him another chance! Say a helpful word whenever you can, whether it be to a child with tear dimmed face or to a workman who has lost his job or to a business man who faces seriou embarrassments. It will pay.-Leslie's.

The Guilty One. John-So, that's your new tie, eh? Why on earth did you select such a loud pattern? Joe-I didn't select it. My brother did, and he's slightly deaf. -Judge.

Sincerity and truth are the basis of

NO SLUMS IN NEW YORK.

Verdict of an Expert After a Search

Through the City.

have made an amazing discovery It is the result of three days and nights of going to and fro in New York-sometimes alone and sometimes with a wise but not cynical detective. And the amazing and disconcering dis-covery is this: There are no slums in New York

You can find crime and criminals; you can find vice, poverty, drunkenness, disease, but you cannot find a slum-such slums as blacken and fester in Antwerp, Genos, Naples, Paris, London and many another old world city. The reason is that you cannot have a slum without flith, and New York is a clean city. Neither crime nor poverty nor crowds make a slum. You must have fifth as well, and that is what New York hasn't got. I looked for it east and west and orth, from river front to river front Everywhere, anywhere, were crime, vice, mean poverty. Everywhere thieves, rogues, outcasts, men and women isolated from their kind by sin or mere suffering, but no slums.

Dirt. of course, is relative have the Courier-Journal.

houses lined with fire escapes—were habitable human dwelling places. And the night going detective declared he could show me nothing worse. I wanted to see the fetid caves where wretch edness lay mounting on garbage heaps,

and there were no fetid caves.

In the old streets and the dingy courts of Paris you can still find hun dreds of them; you have but to walk peeringly through the street of the Pot; you have but to go into the suburbs that lie outside the fortifications-for year by year the centrifugal force that stirs in every great ag-glomeration of human atoms has thrown Parislan beggardom into that

dreary circumference.

But in the washed and lighted un derworld of New York there are no slums. There is not one slum that half deserves the name. Wretchedness all you please; hunger in the streets and on the housetops, it may be, but none of those gangrened holes of filth without which no real slum

can exist. I speak almost with the decision of prowitingly investigating the aluma that rot and blacken the surface of Vance Thompson in New York Sun.

#### THREE EMPIRES.

Monarchies That Practically Sprang Into Being Overnight. Prior to Jan. 18, 1871, the German empire, as we know it today, had no

existence. Instead it was a jumble of kingdoms, states, duchies, duchies and principalities, all joined together by a like language and com mon political aspirations, it is true, but otherwise quite separate and distinct. Then came the historic ceremony in

the Hall of Mirrors at Versailles. Paris had just been captured by King William of Prussia, and it was held to be a fitting time and place to proclaim him the first German emperor. Never since the dawn of history was an em pire born more dramatically.

By a strange irony of fate, too, birth took place amid the ruins of the French empire, itself the creation of a day, or, rather, to be strictly accurate, of a night. France went to bed on the evening of Dec. 1, 1851, a republic. When it awoke next morning it was an empire. During the hours of darkness Parts had been occupied by troops, and the prince-president had become Napoleon III.

Equally sudden and almost as sense tional in its way was the birth of the modern Greek empire. After the yoke of the Turks had been thrown off in the war of independence the country became a republic. But the people soon tired of that democratic form of government and promptly proceeded to assassinate their first and only pres ident. Then they met together, elected a king and settled themselves down and contented fashion.

High Cost of Living Again. Prosperous ex-German (on visit to fatherland)-Donner und blitzen, what are you givin' us? Forty pfennig for this sausage! When I went away a few years ago I used to pay only 20

The Waiter-They was different The P. ex-G .- Precisely the same The Walter-No, you're wrong there. The old ones was bigger.-New York

# HIS DREAM MATERIALIZED.

Curious Incident In the Career Novelist S. R. Crockett.

One morning the postman brought to S. R. Crockett, the novelist, a letter from the editor of the St. James Gazette containing a small check as payment for a contribution. Crockett knew that nothing was due to him, that he had been paid for all articles, and-remarkable man-he did the check up in an explanatory note and returned it to the editor.

The next day back came the check from the editor-remarkable manwith a note saying it was due. The St. James Gazette had published an article from the pea of Mr. Crockett which had not been paid for, hence the check. Again Mr. Crockett-remarkable man-returned the check and still the remarkable editor refor warded it, this time with the article cut out of the columns of the St.

James' Gazette. Now comes the curious feature of the incident. When Mr. Crockett clapped his eyes on the article he was astonished to find it one of his dreams materialized. One night, going to bed extra tired, he dreamed that a good idea for a St. James' Gazette column had occurred to him, that he then and there sat down, wrote it and posted it. Next morning be remembered his dream and made up his mind some day to write the article exactly as he dreamed he had written it, when, to his astonishment, came article and check from the newspaper. Few writ-ers earn checks while aslasp.—London

East Africa's Big Game. Big game of British East Africa, outside of the three preserves of the col-ony, is rapidly vanishing and, accord-ing to W. T. Hornaday, "is absolutely certain to disappear in about one-fourth the time that it took South Africa to accomplish the same result."
Mr. Hornaday points out that the present legal bag limit is ruinously extravagant. For \$250 any man may buy the right to kill 300 head of hoofed and horned animals of forty-four species. not counting carnivorous animals that may also be killed. Thus the richest blg game fauna of any one spot in the world, which nature has been severa million years in developing and placing there, seems likely to be wiped out by man within the next fifteen years.-Chicago News.

Just an Oversight. It was 8 o'clock in the morning in an English town, and the roads were blocked with snow. The maid, who had been given a week's notice, was facing the last day of her sojourn in the house. She handed the usual cup of tes to her mistress in bed and then said sweetly, "Oh, ma'am, when ye asked me yeaterday if we had everything in for tonight's party I forgot to tell ye we are out of coal and the fur-nace is goin' out."

"The sun," remarked the kindly citi-zen, "shines for all."

"And that's what worries some people," averred the eaustic citizen. "They seem to think the sun ought to be handled as a spot light."—Louisville

TAUGHT BY THE SWALLOWS. a Railway Tunnel Was Bullt

Through a Sand Bank. A colony of bank swallows taught a young but observing engineer how to build a tunnel that his more learned uperiors had refused to undertake. North of Burlington, Vt., lies a broad sand plain high above the level of Lake Champiain, through which the Central relirond was to be carried by a tunnel. The sand, destitute of moist ure, would not cohere, but crumbled made. After several costly trials the engineers decided that the tunnel was

impracticable. A young man in the engineer's office said he could tunnel the sand bank at a small cost. He said he could build the tunnel for so many dollars a running foot, but that he couldn't expect the railway people to act upon his opinion when so many American and Suropean engineers bad declared the project impracticable.

The managers, however, gave him a contract to build fifty feet of the tunnel. On the face of the sand bank be marked the line of an arch larger than the proposed tunnel and on this line drove sharpened timbers into the bank. Then he removed six feet of the sand and drove in another arch of twelve foot timbers, removing six feet more of sand. This process he repeated until he had space enough to begin the masonry. As fast as the masonry was completed the space above it was filled, leaving the timbers in place.

He pierced the bank with the cheapest touned ever built, which now stands as firm as on the day it was

He was asked whether there was any suggestion of the structure adopted by him to be found in the books on engineering

"No." he said. "It came to me in this way: I was driving by the place where the attempts were made and saw that a colony of swallows had made their homes in the bank. It occurred to me that these little engineers had disproved the assertion that the sand had no cohesion. As every swallow's home is a self sustaining tunnel without masonry, I thought that by extending their method I could con struct a larger tunnel. The bank swallow is the inventor; I am simply bis imitator."-Boston Post.

#### SWIFT FLYING STARS.

Vastness of the Universe Indicated by Their Long Travels.

The almost incredible distances the heavenly bodies are well illustrated by Camille Flammarion's comments to the Societe Astrononique de France on the study by V. M. Slipher of the Lowell observatory on the speed of the nebula in Andromeda, which is 300 kiometers a second. Flammarion renarks that if this speed has been maintained since the days of Hipparchus, twenty centuries ago, the nebula has traveled in that time 19,000,000, 000 kilometers. Hipparchus made entalogue of the visible stars, and this nebula is not found in his list, although it can now be seen with the naked eye Had it been as brilliant 2,000 years ago as it is today. Hipparchus, living under the clear sky of Alexandria. ould not well have overlooked it.

"Must we then conclude," asks Flammarion "that its twenty centuries of approach to us have been enough to crease its brilliancy? The parallas of the nebula is 0.17 second, which corresponds to a distance of 181,000, 000,000,000 kilometers. It takes light niueteen years to travel that distance. So in 2.000 years its distance would bave diminished by about one-tenth." But then, no one knows that it has

naintained this terrific speed through out the centuries. It may have moved more slowly or more rapidly at any time. All is conjecture except the actual figures for its present speed and distance.

The fact that bodies moving at such speeds are not seen to move brings home to us the vastness of the uni verse.-New York World.

Ancestors Burned. Racon-He says his ancestors were all cremated. Egbert-Why, I though

cremation was a method of re-

years? "It is. His picture gallery, though was burned up only a month ago Yonkers Statesman.

Remarkable Cure of Dysentary.

"I was attacked with dysentery about July 15th, and used the doctor's medicine and other remedies with no relief, only getting worse all the time. I was unable to do anything and my weight dropped from 145 to 125 pounds. I suffered for about wo months when I was advised to use Chamberlain's Colic, Cholera and Diarrhoea Remedy. I used two bottles of it and it gave me permanent relief," writes B. W. Hill of Snow Hill, N. C. For sale by all dealers.

NOTICE FOR PUBLICATION.

United States Land Office, Burns, Oregon, July 29, 1914. Soulce is hereby given that Henry E. Dillman, of Sarrows, Oregon, who, on July 1, 1911, made Homestead entry, No. 00006, for Lots land 2, Sec. 9, Township 27 S., Eangest E., Willamette Meridian, has filed notice of intention to make final three-year proof, to establish olim to the land above described, before Register and Receiver, at Burns, Oregon, on the 7th day of september, 1914.

Glamant mames as witnesses:
Charley E. Dillman, Chester Keown, Charley Backhaus and Henderson Elflott, all of Narrows, Oregon.

NOTICE FOR PUBLICATION

WM. FARRE, Register.

UNITED STATES LAND OFFICE, Burns, Oregon, August 3, 1914.

Notice is hereby given that William Hirsch, of Riley, Oregon, who, on August 25, 1908, made Homensed Entry, No. 08581, for E-190Ws.

NW 1918 2, 18W 18 Ws., Section 12, Township 28, Williamette Meridian has died notice of intention to make Final three-year Proof, to establish claim to the land above described, before Register and Receiver, at Surus, Oregon, on the 9th day of September, 1914

Claimant names as witnesses:
D. R. Thorn, E. J. Williams, H. A. Dibble,
D. R. Mote, all of Riley, Oregon.
WM. FARRY, Register,

NOTICE FOR PUBLICATION.

Unived States Land Office.
Bards, Oregon, July 10, 1914
Notice is hereby given that Oigs Thoresa Jelley, of Narrows, Oregon, who, on May 1, 1912, made Homestead Kniry, No. 26742, for 814
NELS, Sec 25: Swignwig, Nwignwig, section of The National Communication of the Communication of the Communication of the Communication of the Communication proof, to establish claim to the land above departed, before legister and Recolver, at Burns, Oregon, on the 26th day august 1914.

August 1914.
Claimant names as witnesses:
Theodore Jesley, H. A. Jetley, O. O. Jetley,
Willis Chase, all of Narrows, Oragon. WM, FARRE, Register,

NOTICE FOR PUBLICATION

Burns, Oregon, August 2, 1914.

Notice is hereby given that William, W. Nichols, of The Dalles, Oregon, who, on Juni, 1909, made Desert-Land Eurry, No. 38348, for SWig Section 17. Township 28 28, Ranges at E. Williamste Meridian, has filed notice of intention to make final proof, to establish claim to the and above described, before Register and Resister, at Burns, Oregon, on the 10th day of premiser, 1914.

Claimant names as with

eptemper, 1914. Claimant names as witnesses: Fred Barron, Mrs. Fred Barron, Ross Ringer , H. Hall all of Narrows, Oregon. War Fannu, Register.

NOTICE FOR PUBLICATION.

UNITED STATES LAND OFFICE,
Burns, Oregon, July 27, 1914. 
Notice is hereby given that Fred C. Timm, of
Lawen, Oregon, who, on Septembers, 1919, made
Homestead Entry, No. 2098, for NWs, Section
S. Fownship 28 S. Bange 2054 S. Williamette
Meridan, has filed notice of intention to make
final three-year Proof, to establish ciaim to the
land showed described, before Register and Receiver, at Burns, Oregon, on the 4th day of
September, 1914.
Claimant names sa witnesses:
George Eryning, Arthur A. Sannders, K. F.
Carter, G. M. Edwards, all of Lawen, Oregon,
WM. Fanns, Register.

NOTICE FOR PUBLICATION.

United States Land Oppics, Lareview, Oregon, July Srd, 1914. NOT COAL LANDS NOT COAL LANDS

Notice is hereby given that Adolf Hansen, of Pife, Oregon, who, on June 18th, 1910 made flumestead entry, No. 68883, for Hand, 18 No. 18 No. 68883, for Hand, 18 No. 18 No. 68883, for Hand, 18 No. 68883, for No. 18 N

NOTICE FOR PUBLICATION

JAR, P. BURGESS, Register.

United States Land Office,
Burns, Oregon, July 11, 1914. 
Notice is hereby that Fred D. Kellierat, of
Riley, Oregon, who, oh Julie & 1988 made
Ilamestead Entry No. 2015, Serial No. 2020. for
18W16, Section 4. Township 25 South, Kange
25 East, Willamette Meridian, has filed
notice of Intention to make final five-year
Proof, to establish claim to the land above described, before Register and Receiver, at
Surns, Oregon, on the 17th day of August, 1914.
Claimant names as witnesses:
Ren Mutter, W. O. Best, Gorden Brooks, J. M.
Southerland, all of Riley, Oregon.

Ex. Farks, Register.

NOTICE FOR PUBLICATION.

UNITED STATES LAND OFFICE, Burus, Oregon, July 14, 1914. Burns, Oregon, July 14, 1914;
Notice is hereby given that Daniel P. Jordan, of Surus, Oregon, who, on August 5, 1950, made Homestead Entry, No. Ossis, for SEE, Section 2, Township 24 S. Eange 32 E., Williamette Meridian, has filed notice of intention to make final five-year proof, to establish claim to the land above described, before flegister and fleceiver, at Burns, Oregon, on the 18th day of August, 1914.
Claimant names as wilnesses.
Albert Wood, Otto Clasch, Claud M. Salisbury, Nelson Pardee, all of Burns, Oregon. of this notice.

WM, FARRE, Register

NOTICE FOR PUBLICATION. United States Land Office, Burns, Oregon, July 8, 1914 Notice is hereby given that John A. Oard, of Lawen Oregon, who, on November 21, 1908, made Desert-Land Entry, No. 00948, for Styawsa, section 20, Township 24 8., Range at E. Willam ste Meridian, has filed notice of intention to make final proof, to establish claim to the and shove described, before Register and Re-civer, at Burns, Oregon, on the 17th day of jugust, 1914.

August, 1914.
Claimant bames as witnesses
Adam F. B. George, of Lawen, Oregon. Charles
B. Ausmus, of Harriman, Oregon. Charles
Oard and Ralph J. Wilson both of Lawen, Ore WM. FARRE, Register.

NOTICE FOR PUBLICATION UNITED STATES LAND OFFICE.

UNITED STATES LAND OFFICE.

Burns Oregon, July 18, 1914

Notice is hereby given that George II. Williams, of Princeton, Oregon, who of June 21 1988, made Homestead Entry No. 2021, Seria No. 0231, for Na. 2021, Seria No. 0231, Seria No. 1231, Se

diment names as withcases: omas Stevens Fred H. Peters, John C Tem Michael Healy, all of Princeton, Oregon. WM. FARRE, Rogister.

NOTICE FOR PUBLICATION.

Burns, Oregon, July 14, 1914 Burns, Oregon, July 14, 1934
Notice is hereby given that Raiph E. Peabody
of Burns, Oregon, who, on May 4, 1909, made
Homestead Entry, No tolled, for SKLANWI, soc.
H. T. 20 S., R. 31 K., Lota I. 2, 3, SWA, NEA,
dection 6, Township 21 S., Range 31 E., Willamastic Meridian, has filed notice of intestion
to make final five-year proof, to establish
claim to the land above described, before
the Register and Hecciver, at Burns. Oregon
on the iRM day of August, 1914.
Claimant names as witnesses:
Frank Whiting, George Whiling, George
Frank Whiting, George Whiling, George
Frank Whiting, George Whiling, George

WM. FARRE, Register.

NOTICE FOR PUBLICATION

UNITED STATES LAND OFFICE, Burns, Oregon, July 27, 1914. Burns, Oregon, July 27, 1914.;
Notice is hereby given that Arthur A "munders, of Lawen, Gregon, who, on July 3, 1911, made Homestead Entry, No. 0x20s, for SW1, Section 18, Township 24 South, Range 28% E. Willamette Meridian, has filed notice of intention to make Final three year proof to establish cisim to the land above described, before Register and Receiver at Burns, Oregon, on the 6th day of September, 1914.
Claimant names as witnesses. George Bryning, Arthur S. Whitney, Allison T. Raycraft and Fred C. Timm, 811 of Lawen, Oregon.

WM. PARRE, Register.

(1835) Burns 19 List No

NOTICE FOR PUBLICATION UNITED STATES LAND OFFICE,

BRITED. OFFI

WM. PARRE, Register

# SEXUAL KNOWLEDGE

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MAM! PUBLISHING COMPANY

Notice to Creditors,

Notice is hereby given that the underigned has been duly appointed administrator of the estate of Jennie L. Bussart, deceased, by the County Court of the State of Oregon, for Harney County. All person having claims against said estate are hereby notified to present them, duly verified as by law required, to G. W. Clevenger, administrator, at his place of business in Burns, Oregon, or at the office of J. S. Cook his attorney, in Burns, Oregon, within six onths from the date of this notice. Dated this 3rd day of July, 1914.

Notice to Creditors

S. Cook, attorney.

In the County Court of the State of Oregon, for Harney County. a the matter of the estate of P.

Croxton, deceased. Notice is hereby given that the under igned has been duly appointed admin istratrix of the above entitled estate by the Honorable Grant Thompson, judge of the above entitled court.

All persons having claims against said state are hereby notifed to present said laims duly verified as by law required, within six months from the date of the orthin six months from the date of the lirst publication of this notice.

Dated at Burns, Oregon, this 3rd day irst publication of this notice. of July, 1914.

The first publication of this notice is fuly 4th, 1914. (Signed) MARY CROXTON,

Administratrix of the estate of F. C. Croxton, deceased.

Notice to Creditors.

Notice is hereby given that the underigned has been duly appointed executor of the Last Will and Testament, and of the estate of William C. Byrd, deceased, by the County Court of the State of Oregon, for Harney County. All perions having claims against said estate are hereby notified to present them, duly verified as by law required, to Julian C. Byrd, executor, at his office in Burns, Harney County, Oregon, or at the office of J. S. Cook his attorney, in Burns, Oregon, within six months from the date EVERYTHING A MAN NEEDS

Dated this 1st day of July, 1914. Julian C. Hyrd, execuror. J. S. Cook, attorney.

> OFFICIAL DIRECTORY STATE-OREGON:

W C Hawley Attorney General . A. M. Crawford Oswald West Ben W. Olcott T. B. Kay J. A. Churchill W. S. Duniway retary of State NINTH JEDICIAL DISTRICT.

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COUNTY-BARREY! ounty Judge heriff. Assessor school superintendent tock Inspector County Court meets the first Wednesday in Departs

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Sumpter Valley Railway Co. Arrival and Departure Of Trains

Dayton, Ohio

No. 2, Prairie 10:15 A. M. Sumpter 2:35 P. M. 4:00 P. M.

Departs No. 1, Baker 8:30 A. M. Sumpter 10:05 A. M. Prairie 2:10 P. M. Arrives

No. 1 Makes good connection with O.-W. R. & N. No. 10 leaving Portland 7:00 P. M. and No. 17 from east arriving Baker 6:50 No 2 Connects with La Grande

10:45 P. M. for points East.

New Home Sewing Machine with the name NEW HOME on the arm and in the legs. This machine is local 7:00 to La Grande, and No. 9 (fast Mail) picks up sleeper No other like it there arriving in Portland 7:00 No other as good A. M. Also with No. 18 at The New Home Sawing Machine Company,

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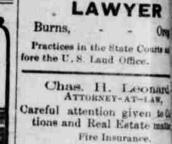
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