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MAGIC OF COLORS

By It We Know of What the Sun and Stars Are Composed.

SECRETS OF THE UNIVERSE.

How They Were Revealed by the Discovery of the Spectrum and the Reasoning to Which H Led-Our Eyelashes Are Primitive Spectroscopes.

The miracle of the spectroscope is repeated before our eyes every day and every night without our recognizing it. . If people were more observant and more accustomed to think about the meaning of what they see great discoveries would be as plentiful as diamonds in a Kimberley pipe.

A man mid to me the other day. "What is all this color that I she when I squint my eyes and look at an electric light?

I replied: "It is the greatest rev elation that man has ever bad in the physical world-it is spectrum analy Your crowded eyelashes become an astronomical instrument and analyze the light for you into its primary colors. The multitude of narrow sizes through which the light passes as you aquint your eyes act like a diffraction grating and change the direction of the verious waves of light in accordance with their length.

"The red waves are long, one thirsine-thousandth of an inch in length. and they keep on without much change of direction, but the violet waves are short, one fifty-seven-thousaudth of on inch in longth, and they are considerably turned out of a straight line. All the intermediate waves, from orenge, through yellow, green, blue and indigo, decrease in length and are more and more furned aside as they get shorter. The consequence is that you see through your nearly closed sysiashes a band of colors, which is nothing but the famous spectrum of the astronomers."

By the discovery of that spactrum and the reasoning that it led to we have found out what the sun and the stars are made of. Every known element of matter, when it is made to shine, gives out wave lengths peculiar to itself. Spectroscopic instruments more perfect than the evalashes reveal these special waves in the light of the sun and the stars and by that revelation enable us to detect the incendes cent clouds, composed of the hot ve pore of trus, coppor, nickel, platinum carbon, calcium, sodium and many other substances which glow in the stmosphere of the heavenly bodies We find these things in stars so far ewey that their light may require \$,000 years to come to us, although it firs with a spard of 186,300 miles per

Look around you when you enter a brilliantly lighted parlor with crystal chandeliers hanging from the ceiling. The mysterious spectrum flashes at you from a hundred directions at once. The glass crystals of the chandeliers are also spectroscopes, and they, too, esparate the various colored waves, though on a somewhat different prin-

MAN EATERS OF AFRICA. The Lions and Crocodiles Are In Chase by Themselves. Man enting ligns have always been

fairly common in East Africa. The most noted but far from exceptional case was that of the two man eaters

which for a time stopped the building of the Uganen railroad by their ravages among the workmen until they were finally shot by the engineer in charge, Mr. (afterward Colonel) Patterson. Another Hon, after killing several men around a station on the railroad, carried of and ate the superintendent of the division. The latter had come down in his private car, which, was wen on a siding, and he sat up at a window that night to watch for the hon. Mut he fell asleep, and the lion climbed on the platform, 'entoyed the car by the door and carried off his, would be slayer through the window.

In the summer of 1959 a couple of man eating llons took to infesting the Masai villages on the plain ground the headwaters of the Guaso Nyiro, west of Kenia, and by their ravages forced the Masai to andndon the district, and the native travel routes across it were also temporarily closed. A few weeks later I was hunting in the district. We kept the thorn boma around our camp closed at night, with a fire burning and askarie on guard, and were not molested. Near Machahestama a white travel

er was taken out of his tent by a man eater one night a good many years ago. A grewsome feature of the inctdent was that on its first attempt the lion was driven off after having seized and wounded its victim. The wounds of the latter were dressed, and he was again put to bed, but soon after he had been left alone the lion again forced his way into the tent and this time carried the man off and ate him.

Every year in East Africa natives are carried off from their villages of from bunting camps by man eating Hone. Occasionally one hears of man enting leopards, which usually confine themselves to women and children, and there are man eating hyenas, but the true man enters of Africa are Hous and crocodiles.- Theodore Rousevelt in Scribner's Maganine.

BRITAIN FEARED NAPOLEON.

And Lamb, Who Thought Him a Fina Follow, Fanned the Fiame.

It was on Aug. 8, 1815, that "Gen eral" Bonaparte, as his English captors insisted upon calting him, was transferred from the Bellerophon to the ship Northumberland, to begin the journey to St. Helena. There was much protest in England against the transportation of the distinguished prisoner, but the government remained

Official England could see nothing but danger in keeping such a dynamic. force as Napoleon within its limits, and, hersh as the actions of the government seemed, the position thus taken was not without logic. Napoleon had been placed on his honor at Elbe, but honor did not weigh with him

when ambition was concerned. Charles Lamb spoke for those who They act not as diffraction grat laml when he wrote to Bouthey: "After all, Boneparte is a fine fellow, on my barter says, and I should not mind standing incohended at his table to do service to bim in his fall. They should have given him Hampton court of Kennington, with a tether extending forty niles round London." Lamb whimsleally suggested that if Namebeen remained in England the people might some day elect the Branawich to his favor, and the government took

Semi-Weekly Bandon Recorder, November 11, 1913

POLICE OF SPAIN

a a manufacture secondary a sub-station of the second states

In Andalusia They Are Seen In All Their Shabby Glery.

ARSENALS ON MOVING LEGS.

They Will Put a Pistof to Your Head With the Greatest Politeness and Lack You In a Celt With Infinite Courtesy-Mines of Misinformation.

He is polite, is the Spanish policeman. There is a live and let live air about him. He possesses neither the easy and kindly dignity of the policeman of London nor the truculence of the policeman of New York, but he is very, very human. And he has the thesacd with that no other brand of policeman memo to possess of appearing to be more than an ordinary person. True, he is armed. He is an arsenal moving on legs. But something tells you that he wouldn't seally hurs o by. Ilike, faim.

And here I must say that he is not to be confounded with the guardin civil. The guardia civil is quite another person altogether: He is stern and austere, and be patrole country districts and interoste monutainous places. He was used to put down the baudeleros, those adepts in the art of awift, forceful borrowing, whose pres ence did so much to heighten the romance of old sunny Spain. The guardia eivil killed off these gay funncial arttets, but now, even after bis job has been duished, be still wears a cold. anotore air. He is indeed not to he confounded with my friend the police-BIATI.

The first time I met the Spanish potherman was one night in a certain. town in Andalusis. Truth compels me to state that I met him in a profee stonal way. I was indulging with others to a row when he appeared in force. I was gathered in by five of him. But how polite he wast He put his platet to my bead, or, rather, the five of them out their pistole to my head, and made me feel that I would te doing him the greatest of favors by coming with him to the police station. The whole affair was courtliness it-

self. To be arrested in such a manner was to have a privilege conferred upon one. At the police station I was sgain treated with politeness and in the end -with a locked door.

The Spantsh policeman is not too welt paid. He sports not an ambasandorial aniary. All he gets to 2 penable to the friendly and considerate tip. This. I must basten to say, bowever, makes him none the less a worthy and effective guardian of isw and ordet.

He is shabby of aniform. But that to not his fault. It is the fault of a frugal government. It appearance be looks something like an English postman and an impovertahed Hpanish officer. But there is artistry about his shabbiness. He fits into the picture. Very often, especially in Andalusia, he is old and rather infirm. One is often sorty for him as he humps along with his sword trunding behind bim. age. If he sees a row he looks at it with his bitod eye and allows it to elmmer down-& very good thing with

Bandon Dry Goods Co.'s **Big Sale Now On!**

Latest style Suits and Coats for ladies greatly reduced

Men's Suits, \$2.50 up. Men's \$5 Shoes \$2.00 ::

Men's Rainproof Overcoats \$4.50 up

Mens \$3.00 Hats 50c each and up

Best 12 1-2c and 15c Outings 9c yard

Best 12 1-2c and 15c Ginghams 9c a yard

All Underwear Reduced. All Hosiery Reduced

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All Linens Reduced.

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All Shoes Reduced.

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Everything in the Store All Umbrellas Reduced. Reduced.

Look in the Windows. Come in and see how low prices really are.

but as prisms, but the effect to Ings, agarly the same. When light goes through a prism the red waves are less bent out of their course than the orange, the orange less than the yellow, the yellow less than the green, the groen loss than the blue, the blue less than the indigo and the indigo leas than the violet. The result is that what was white light, with all its waves intermingled, when it entered the prism, comes out in penutiful aheaves of color.

A similar effect is produced by the beveled edge of a mirror or the facets of a piece of cut glass glittering on a dinner table.

The beauty of jeweis depends upon their spectroscopic powers. Every transparent substance has its own "in dex of refraction," which means its peculiar power of turning light waves aside. The diamond, as the king of gome, possesses this power in the highdegree. Calling the refractive indox of air 1.00, that of glass is from 9.51 to 1.71, according to its density, while that of the diamond is 2.47.

This property alone furnishes a means of detecting the genuineness of diamond. Taking advantage of Hs high refractive power and shaping its fucets accordingly, the jeweler can wastly increase the brilliancy of a diamonil by proper cutting. He can bring alonst internal reflections that make the stone blage as if its atoms were all afire.

The shimmer of colors in an opal is due to the existence of invisibly minute flasures, which split up the light waves and scatter their hues in dellcate, intermingled rainbows,

Nature has been doing these things for thousands of years in plain sight before man found out that he could use the principle on which she actor to uncover the secrets of the universe. Very likely she is giving us many othof equally valuable hints which we are still too stupid to understand.-Garrett, P. Serviss in Spokane Spokesenan-flor view

Untrustwortig.

"I'm glad I refused that man. Ho's untrustworthy." "Wby do you say that?"

"He vowed he would pine away and die if I turned him down, and now look how fat he has grown."-Louis ville Courier-Journal.

Life is a garden, every thought is a seed, and what we sow we reap. Watch your garden.

 $\theta_{\rm ext}$

the suggestion seriously. Now that Napoleon is safety dead such a fear seems absurd, but Napoloom was then allre, and, in view of that fact, no government was safe in enying, "I should worry?"-Cleveland

Plain Dealer.

Bouins Signal Service.

Before the decisive trattle at leftth an ingenious method of signaling on the part of the enemy was discovered by the Hervisuo. A cowherd was taking five cows out to pasture on a bill balfway between the two campo. He drove them along, comediance two to avtion, then one at a time, then three thus converter information to the Bul garians as to the position and strength of the Service Dettalises.

Marvelous Resistance of Water.

If it were possible to monart to a sheed of water an inch in thickness aufficient velocity the meat powerful bombshells would be insusedintels stopped in their flight when they came into contact with it. It would offed The same resistance as the steel armor of the most modern botheship.- Lop don Strand Magazine

Tuking Their Turn. "Why sension a policeman he to Mila mos beach?"

"It is newly painted." "the can't beap possible

Frenh paint." "No, but he.oan koup "on an fine." Sampes Chily Journald.

Cause of His Auger. "Why is he so bitter at the girl he was only meently engaged to?" "Because when she sent the fing back she labeled the box 'Qass-With Care!" "-Lippincott's.

· Misery In Store.

"Kate says she intends to marry Mr. Plunks to reform him." "What is his vice ?" "He's a good deal of a miser."- Bos ton Transcript.

If you ask a Spanish polle question he to politeness theil. But his answer will be strong. He to a mine of misleading information. He doesn't know. Indeed, what he doesn't know about the names of streets and the way to get to them and things generally would fill an encyclopedie. If you wont to know anything you must not ask a Spanish policeman. Respect him, for he is of the best, but don't ask him question

Is the sighttime be be andines at ries o tance. He is then called o serves, presumably because he brings screatly upon troubled waters. He looks very pictureaque on a clear, star It night and makes one think of the times of old-the thuse one reads about in historical romances. But he is al ways harmiess, always peaceful and ready for a friendly goasip. He is mally a service a service person. lance to morely there to round off his artistic and commutic appearance: And It is not a sharp innce. I know, for I have often felt the edge of it-when the sereno courteously handed it to me for impection. But it buils artistic when seen in the distance on a stat It night.

The polineman of Catalonia is som what different from the policemen of Andalusia. Ife in alert, pushfui and interfering. He is apt to want to know who you are and what you are and what your business may be. But Catetonia is not Spain. It is a pince where the people rush about doing all man not of things. They like work, and, what is worse, they like other people to work. And their policomen take after them.

No, the Catafonine sufficience cannot trals to called a Spanish policeman. hf you want to see the true spanish polleeman pop mast go down to Anda lusta

stid you will fibe drink. You will fun for kim the friesdilest regard. Sou wifi soo fitm ambling caseally along with stooped shoulders and troadling sword. And should you have to make his acquaintance in a professional way you will find that he will doki with you as an easys and kindly father would deal with you." If he arrests you he will arrest you in a way that won't injure your feelings I can recommend him.-Bart Kennedy in London Star.

He conquers twice[®] who restrains bimself in victory .- Syrus.

Bandon Dry Goods Co.

Traders Exchange. Lucated on and Street in the old bronchitis. He writes: "I got no

Woolen Mill Building. The object of the TRADERS EXCHANGE is not to buy, but to act as a go-between to parties that have anything to trade or exchange or you can set a price on anything you have to self. leave it at the TRADERS EXCHANGE and it will be sold for you, we have plenty of floor space; we will also list anything and everything for Sale or Trade, Farms, Stock, Real Estate, Household gouds, Machine ery Merchandise, Vehicles of all kinds, Harness and Saddies, Boats, ank of all kind. Later on we will have a TRADERS EXCHANGE auction day once a munth, when we would like to have Farmers and others bring in Livestock and produce of all kinds. Likely by that time we will have the merchants and business men in with an and have a general Bandon hargain day. Business will he on a so per cent basis, Real Estate on a s bes cent. There is no grade on the basiness, your set your own prices. The TRADERS EK-CHANGE gets & to per cent or 5 per cent commission for storage and

bringing the TRADERS or Buger and Seller together, also storage ware aprese. Louse in and see us or drop. us a cash. We want to do huniness with the whole surrounding country.

Get in and he a boosten," This is going to halp everybody.

TRADERS EXCHANGE W. G. Cadby, Prop. relief until I took Foley's Honey and Tar Compound. It entirely removed those choking, sensations, and never failed to produce an easy and comfortable condition of the lungs." The Orange Pharmacy."

Notice of Apportionment of **Cost for the Improvement** of Twelfth Street West in the City of Bandon, Oregon.

Notice is hereby given: That the cast f the improvement of 13th Street West in the City of Bandon, Oregon, has been upportioned and if now on file in the office of the City Recorder of said City, and those subject to examination; the whole cost of aid improvement is \$334.89 and is apportioned and assessed to Local Improvement District Md. 5, which district embRaces all of the property on either side of, said 12th Street West and abesting on the same betwen the East line of Kensington Avenue and the West line of the Morras Addition to Bandon, Oregon, from the marginal line of said 12th Street West back to the center of the block or blocks abutting thereon. This notice is published in accordance with Sec. 105 of the Charter of the City of to-oit: The Bandon Recordes, the first publication on 90ov. 11th, 1913, and the to said apportionmunt (if any exists) sherein the same is unjust or "inequitable must be filed in writing with the City Recorder of the mid City within ten (10) days from the date of the last publication of

this potice, which date is Nov. 18, 1913, that the same may be heard and properly qualized and adjested by the Commo ^o Bandon Ore, Council before the passage of any ordinance assessing the cost of said improve-

Birminghem, Ala. F. L. Willis ment. Said Common Council will meet as Second Publ. Nov. 11th 1913.

suffered greatly from aschma and a board of equalization to hear the assessmente for the improvement of 12th Street West on the 3rd day of December, 1913, at the hour of & o'clock P. M. of said day. Dated at Bandon, Oregon, this 10th day of Nov., 1913.

E. B. KAUSRUD. City Recorder. First Publ. Nov. 11, 1913. Last Publ. Nov. 18, 1913.

Notice of Street Work.

Notice is hereby given that the Common Counsil of the City of Bandon, Coos County Oregon, deems it expedient and necessary to improve Second Street East from the east line of Grand Avenue to the west line to June Avenue, and from the east line of June Avenue to the west line of Michigan Avenue in the City of Bandon, Oregon, at the cost and expense of the owners of the lots parts of lots and tracts of land included in the improvement disrict to be known as Local Improvement District No. 18 which district embraces all the property on either side of said Second street East and abutting thereon between the East line of Grand Avenue and the West line of Michigan Ave." nue from the marginal line of said street back to the center of the blocks abutting thereon. Said improvement is to consist. substantially of grading and filling building 6 ft. wide wooden sidewalks, the construction of wooden crosswalks and curbs, all of the said improvements to be built upon the established grade of said second street East Bandon in the official, paper of said city and in accordance with the plans rnd specifications for said work as prepared by the City Engineer filed in the office of the City Recorder and there open to the inspection last on Mov. 20, 1913, and any objections of all persons inferested therein. The total cost of said improvement is estimated to be \$3,417.35. Any objections to said improve ment (If any exists) must be filed in writing with the City Recorder on or before November 19th 1913 by the owners of twothirds in the area of the property within the above described improvement district.

This notice is given in accordance with a resolution passed by the Common Council on the 10th day of September 1913. E. B. KAUSRUD,

First Publ. Nov. 4th 1913