

# THE CHIEF

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## SCIENTIFIC MISCELLANY

**SUBMARINE** photography is not likely to become a popular pastime. But it is interesting to unknown regions, and M. Louis Bostan, who began by investigating the animal life of the waters, has become an enthusiastic sea-bottom chemist. Some of his remarkable photographs of submarine scenery have been recently published. He uses a camera, which is enclosed in a tight copper box having a plate glass window, and is mounted on a cast iron tripod. Suitable mechanism is provided to expose and change the plates. The pressure of the water, inconveniently great even at 20 or 30 feet, was an early difficulty, but this was overcome by means of a rubber ball, holding about a gallon, from which air was forced through a tube into the box as the pressure increased. Light fades away rapidly in sinking below the surface, daylight exposures being impracticable at a depth of 25 feet. Magnesium powder is burned in oxygen in a suitable glass globe, and by this powerful illumination instantaneous exposures are made with interesting results.

The biological stations of the New England coast have solved the problem of lobster culture. Several thousand of the young fry are put into a cylindrical serum bag about three feet in diameter and four feet deep, and the water in the submerged bag is constantly agitated by a dasher driven by a gasoline engine. This prevents the fry smothering or devouring one another, at the same time keeping their food of soft clam fragments within reach. In nine to sixteen days from the eggs the creatures are able to take care of themselves, this stage being reached by 16 to more than 40 per cent of the fry, although no previous experiment had even one per cent of survivors.

That certain substances adhere so tenaciously to glass as to bring away scales was observed long ago by Prof. Chaillet. For etching he applies two coats of thin glue, and after twenty-four hours place the article on a kitchen range at not over 105° Fahrenheit. The glue will detach itself in numerous flakes of glass. The designs may be varied by adding various salts, the best results being had from glue containing alum.

The electric target of Capt. Charles Chevallier, of the French army, is a series of metal segments. When a projectile strikes a segment, an electric circuit is completed by one or more spring-supported rods at the back, and the exact spot struck is signalled upon an annunciator.

About fifty earthquakes yearly disturb the world throughout its mass. Prof. John Milne notes that between January 1, 1890, and January 1, 1902, the world-shaking earthquakes numbered 196, of which twenty-five originated west and south of Alaska, fourteen west of Central America, sixteen west of Antilles, twelve west of the Andes, twenty-nine east of North Japan, forty-one south and east of Java, seventeen north of Maritius, twenty-two on the east side and three on the west of the North Atlantic, three in the North Atlantic and fourteen in the Balkan, Caucasian and Himalayan regions. These sources—all submarine but the three—are near the base of the steepest flexures, with boundary ridges mostly lined with volcanic peaks. Both on land and under sea, the great earthquakes seem to attend a deepening of the furrows and an elevation of the flanking ridges; and elevation may re-open long sealed volcanoes, as in the eruptions in the Antilles in 1698, 1718, 1765, 1797, 1802, 1812, 1833, and 1902. The small earthquakes of which 10,000 a year are recorded have no sensible connection with volcanoes.

The new image transmitting apparatus of a Belgian engineer includes two synchronous motors, each the size of an egg, which are mounted at the two stations, and are driven by the same current at the same speed of 500 revolutions a second. On each armature is a small lens which in every 50 revolutions oscillates five degrees from the axis. The transmitting lens thus "sees" over a circle of ten degrees, and the variations of light and shade in the spiral path are instantly transmitted through a selenium cell to the same points on the receiver and are thrown on a screen by the second lens. The entire spiral being passed ten times a second, the image on the screen appears continuous.

The smallest vertebrates hitherto known have been several fishes of the Southern States, the shortest about an inch long. A new goby—named *Mistichthys luzonensis*—is reported from a lake of southern Luzon, and averages only about half an inch in length. Caught in great numbers by the natives, this tiny species is a food fish of some importance.

Various metallic substances are pulverized in the electric furnace by heating to volatilization, and then forcing into a collecting chamber by a jet of air or inert gas. Among useful powders produced are those of bronze, tin and aluminum; of litharge, or lead oxide; and of chrom steels, used as abrasive. Variations of the process give such compounds as white lead.

The improved self-luminous mixture of a French chemist claimed to require only very short exposure to light and to be unusually brilliant and lasting. It consists of 20 parts of dehydrated sodium carbonate, 5 of sodium chloride, 1 of magnesium sulphate 500 of strontium carbonate, and 150 of S-plaster. The well mixed materials are kept white hot for three hours in an air tight muffle.

## CONDENSED AIR

John D. Rockefeller: "Making money is a mere incident." A great many of us regard it as more of an accident.

"Kentucky high society has decided that it is not a breach of etiquette to ask a lady to take a drink of whisky," says a new item. The French perhaps lies in a refusal.

A burglar got into J. Pierpont Morgan's room in London recently, but upon discovering whom he was trying to rob fraternal courtesy led him away empty-handed.

Telegraphic reports have it that 40,000 Italians are coming over to this country. Presumably to see what Columbus discovered on this side of the waters of the Atlantic.

A Chicago policeman has been suspended from the force for thirty days for using "obstreperous language." This kind of language in Chicago is what we call glib-edged, highly decorated profanity in the west.

Count Jablonski de Centegraskolski, of Moscow, was shot at by an assassin the other day. The would-be murderer presumably thought such a name should not be allowed to exist.

Says a scientist: "A man or woman with heart trouble should never marry." Did the learned sharp ever hear of a marriage outside of aristocratic circles in which heart trouble did not play the leading part?

The New York actress who recently lost her mind has recovered it, but the Chicago ball-t girl who at the same time lost her wardrobe was compelled to re-cover her-self with a new outfit.

**Inflammatory Rheumatism cured in 3 days.**  
Morton L. Hill of Lebanon, Ind. says: "My wife had inflammatory rheumatism in every muscle and joint; her suffering was terrible and her body and face were swollen almost beyond recognition; had been in bed for six weeks and had eight physicians, but received no benefit until she tried the Myrtle Cure for Rheumatism. It gave immediate relief and she was able to walk about in three days. I am sure it saved her life." Sold by H. E. Grice, Druggist, Red Cloud, Neb.

**Send for your Friends.**  
A little more than half the one way rate will be the cost of a second class one way tickets from Chicago, St. Louis, Kansas City, Omaha and other prominent eastern terminals of the Burlington Route to this territory on these dates: December 3 and 16, January 6 and 20, February 3 and 17, March 3 and 17, April 7 and 21. The west is in splendid condition now, it is a good time to show it off to your eastern friends. The low rates announced on the above dates will undoubtedly prove attractive to those contemplating western trip. Send me the names and addresses of your friends who might be induced to take advantage of these rates, and I will supply them with complete information.  
J. Francis, G. P. A., Burlington Route, Omaha, Nebraska.

**Give The Boys and Girls a Chance.**  
This county is full of young men and young women who are anxious to get away from the farm and secure positions in banks or business offices. This is all right and they should be encouraged by their parents, for people generally succeed in the work they like and fail in what they dislike. The Grand Island Business and Normal college will take a limited number of honest, industrious boys and girls through a full course in the college and allow them to pay for same after they graduate and secure positions. This is no doubt the greatest opportunity to young people of limited means that any school has ever offered and those interested should write for particulars at once.

**One Minute Cough Cure, cures. That is what it was made for.**

## SCISSORISMS

One of the new fads in men's socks for women. There is a rumor prevalent that some wives wear the trousers, but no one imagined that the socks would also be appropriated. If the women continue the invasion of the wardrobe of the men they will be obliged to wear articles of wearing apparel that man can call his own. His coat, shirt, vest, coat, collar, tie and sock are gone. If he is remaining his chewing tobacco and suspenders, not much of a layout for a cold day.

Put away your ping pong board and balls for the never absurdity is out. Blowing soap bubbles is the new thing. It is said to strengthen the lungs, increase the circulation of the blood, harden the muscles, brighten the mind, drive the imagination, cure warts, remove freckles, purify the conscience, elevate the morals, create riches, fill the missionary boxes, sweeten an onion breath, decrease the price of beef-steak and ice, abolish monopolies and do a lot of other good things.

A Missouri country editor tells the following sad tale: A small cur dog occurred with fleas, sat down to think once beneath the trees. He watched a farmer plowing corn, and in his mind a thought was born. "If scratching earth makes corn," said he, "the fleas must thrive when scratched by me. So now I guess I'll scratch no more, and perhaps my troubles will be over." A week went by he kept his word, but when he found he'd erred, for two fleas came where one he'd had, and soon he died; the dog went mad.

A girl in Indiana played post office at a party the other night and yelled and shrieked and howled and ran behind the door and scratched the young man's face in seven places, upset a lamp, kicked over the piano stool and when he finally kissed her on the tip of the ear she fainted dead away and said she could never look anybody in the face again. They lend this beautiful, modest, gentle, sobbing creature home and the next day she ran away with a married lightning rod peddler who had a hair lip and ten children.

If it is true, as some people have been heard to assert, that advertising are rarely read, why is it that requests sometimes come that certain notices of which the law requires publication be placed in the most obscure portion of the paper? It is a fact beyond successful dispute that everything entering into the paper is seen by somebody, and that somebody may be the identical individual whom you desire to interest in goods that you have and of which he stands in need. You want to secure his attention and you will never find a better medium through which to do it than the newspaper.

Hearing the name Napoleon spoken, the associate thought is only of his greatness. The English press teemed with abuse of him at one time, however. He was termed a demon in human form, a robber and a miser, plundering the treasuries of nations that he might hoard his countless millions; and he was also a profligate and a spendthrift, squandering upon his lusts the wealth of empires. He was said to wallow in licentiousness, his camp to be a harem of pollution and that he rid himself of his concubines by poison. He was dubbed an imbecile, a monster and a heartless butcher.

A Brookfield (Mo.) editor says: "A Brookfield boy one night imbibed until he'd had his fill and then he started homeward but he couldn't climb the hill. So down he dropped and went to sleep right there upon the grass and in his dreams some very funny doings came to pass. He dreamed that twenty cannibals had captured him and he was tied up to a sapling while they fixed him up for tea. They came the chieftain with a spear. "Well drink his blood," he spoke. But 'er the gory job was made the boy was wide awake. "Ah, ha, old chief," he murmured then between his sleepy blinks. "I knew I'd get away before you stuck me for the drinks."

It keeps the Feet Warm and Dry.  
Ask to day for Allen's Foot Ease, a powder. It cures chills, swellings, sore, itching damp feet. At all druggists and shoe stores, 25c.

**Holiday Games FREE**  
In each pound package of **Lion Coffee** from now until Christmas will be found a free game, amusing and instructive—50 different kinds. Get Lion Coffee and a Free Game at Your Grocers.

**THE FORD'S BLACK-DRAUGHT FOR CONSTIPATION**

Constipation is nothing more than a clogging of the bowels and nothing less than vital stagnation or death if not relieved. If every constipated sufferer could realize that he is allowing poisonous filth to remain in his system, he would soon get relief. Constipation invites all kind of contagion. Headaches, biliousness, colds and many other ailments disappear when constipation is relieved. The Ford's Black-Draught thoroughly cleans out the bowels in an easy and natural manner without the purging of calomel or other violent cathartics.

Be sure that you get the original The Ford's Black-Draught, made by The Chattanooga Medicine Co. Sold by all druggists in 25 cent and \$1.00 packages.

Morgan, Ark., May 25, 1901.  
I cannot recommend The Ford's Black-Draught too highly. I keep it in my house all the time and have used it for the last ten years. I never gave my children any other laxative. I think I could never be able to work without it on account of being troubled with constipation. Your medicine is all that keeps me up.  
C. B. McFARLAND.

**A Startling Surprise.**  
Very few could believe in looking at A. F. Hoadley, healthy, robust blacksmith of Tilden, Ind., that for ten years he suffered such tortures from rheumatism as few could endure and live. But a wonderful change followed taking Electric Balm. "Two bottles wholly cured me," he writes, "and I have not felt a twinge since over a year." They regulate the kidneys, purify the blood and cure rheumatism, neuralgia, nervousness, improve digestion and give perfect health. Try them. Only 50c. at C. L. Cotting's drug store.

**Asleep Amid Flames.**  
Breakin' into a blazing home, some firemen lately dragged the sleeping inmates from death. Fancied security and death near. It's that way when you neglect coughs and colds. Don't do it. Dr. King's New Discovery for consumption gives perfect protection against all throat, chest, and lung troubles. Keep it near, and avoid suffering, death, and doctor's bills. A teaspoonful stops a late cough, persistent use the most stubborn. Harmless and nice tasting, its guaranteed to satisfy by C. L. Cotting.  
Price 50c and \$1.00. Trial bottle free.

**That New Book on the Big Horn Basin.** is off the press and ready for distribution. It is a little bit the best publication descriptive of this wonderful section of Wyoming yet issued. It gives brief glimpses of its farms, gardens, cattle ranches, irrigating canals, oil fields and a word about the golden opportunities. Illustrated by thirty-one splendid half-tones from photographs. Free to any address on request.—J. ERANCIS, G. P. A., Burlington Route, Omaha, Neb.

**How to Get Rid of a Cold.**  
"Shall I ever be rid of this cold?" This is the daily question of a man racked by a cough that seems to tear his lungs. Let him cheer up and take Allen's Lung Balm. This remedy not merely overcomes ordinary coughs and colds, however obstinate, but it is recommended even in the first stages of consumption. C. L. Cotting.

**The Great American Climate**  
On the heels of a bright mild day comes a howling blizzard and the next thing you know the weather is spring-like again. No wonder people have colds and sore chests and stiff backs. Luckily, Perry Davis' Painkiller is at hand to give relief. Take it internally and rub it into the aching flesh. All druggists sell it. There is but one Painkiller, Perry Davis'. C. L. Cotting.

**Every-Lady**  
who spends \$5.00 at the ART STORE this month will receive a CHRISTMAS PRESENT. HAND PAINTED. My Stock is made up of ACCEPTABLE PRESENTS at Low Prices.  
**Argabright.**

**Hadell's Cash Bargain House.**  
DAMERELL BLOCK.  
**SPECIAL - SALE!**

**Special Dress Goods Selling.**  
Special lot of new 40c and 50c Dress Fabrics placed on sale at 25c per yard.  
New Henriettas, Serge, Satin, Burgis, etc., 40 inch, 65"  
Nonette Suitings at 50", all colors.  
40 inch 65c Homespun Suitings at 50c per yd.  
40 inch new 75c Ziblene dress fabric at 50c.  
40 inch new black or brown Cheviot dress goods at 50c, regular 75c quality.  
46 inch \$1.00 French Cheviot cloth at 65c per yard. New green and maroon effects.  
Special lot of new dark and maroon colors in Serge, Cheviots, Broadcloths, Venetians, ziblenes, etc., from 50c to \$1.50 per yard.

**Special Carpet Sale**  
Greatest values ever shown.  
50c half wool Union Carpet 38c.  
60 Ingrain Carpet at 48c.  
70c Ingrain Carpets at 58c.  
1 R L, 50 yards, \$1.25 best Axminster Carpet, sale price 75c.

**Gloves and Mittens.**  
New Golf Gloves at 25, 35 and 50c.  
New Mittens at 25, 35c and 50c.

Special sale of sample line **Ice Wool Fascinators**, at about one-half regular price.

Special Bargain Selling in our **Cloak Dept.**  
A great showing of all the new Cloaks, Tailor Made Suits, and Eurs at special money saving prices.

**Special Wrapper Sale.**  
\$1.50 Wrappers at \$1.00.  
\$1.75 Wrappers at \$1.25.

**Alfred Hadell & Co.**

**WE HAVE** the cleanest and most complete stock of Groceries in the city. Everything is new and fresh. We have made arrangements with Alfred Hadell & Co. to accept our produce checks, thus giving you all the advantages of a department store. To our friends in the city we wish to say that our experience as clerks has given us the advantage of knowing the particular kind of goods desired, and you can find them at our store. If you wish to be sure to get your groceries DELIVERED PROMPTLY order them from : : : PHONE 102.  
**REIGLE & WEST.**

To make room for my Holiday Goods, I will close out my Outings at following prices:  
**5c Outings, 10 yards for 30c**  
**7c Outings, 10 yards for 55c**  
**8 1-2c Outings, 10 yards for 70c**  
A special lot of Yarn at 5c per skein

**F. Newhouse.**

**YOUR HEALTH**  
Will be preserved if you buy your **Groceries and Meats** of us. Everything neat and clean. A new lot of Heavy Castor Machine Oils at 35c per gallon. Nothing better. Try some of it.  
**RIFE & ROBINSON,**  
Up-to-Date Grocers and Butchers.