

COAST DEFENSE.

Concrete Forts and Big Guns That Protect Our Sea Line.

The modern seacoast fort is a battery whose guns are protected in front and flank with enormous monoliths of concrete, covered, in the sides exposed to the fire, with sand enough to deflect projectiles before they reach the concrete, says the Engineering Magazine. Deep down in the interior of these huge masses of stone are placed the magazines and operating rooms required for the service of the batteries. They are simply caves in stone, artificial, to be sure, but as permanent as the everlasting hills. It is weird and uncanny to reflect that in one of those caves, scintillating with the highest resources of science, men stand over a drawing board on a table and practically see and plot on a chart every movement and position of the ships of a hostile fleet and flash forth to the gunners in the open such instructions for pointing their guns as enable them to make consecutive bulleyses on a target 6,000 yards away or from groups of great twelve inch rifled mortars to make 47 per cent of hits with flocks of projectiles on the deck of a moving target anywhere within range.

It is vastly important that such rooms be made as comfortable as possible for the strained human intellects working out their country's defense within them. But to make them comfortable is a difficult problem. In the United States the first modern batteries were completed during an exigency caused by the war with Spain. But since their completion during the warm and humid months of summer and early fall their galleries, magazines and service rooms reek with moisture. Water stands in great beads upon the walls and ceilings, from which it drips down to form great pools upon the floors, and they are not safe places for either human beings, ammunition or material of war. To remedy the evil many expedients have been tried and much valuable experience gained. But the problem is beset with difficulty.

FALLS ONLY TO RISE.

An Experiment Which Shows a Sort of Perpetual Motion Effect.

A novel experiment in the demonstration of perpetual motion is to be performed simply. A glass beaker about six inches high and four inches in diameter is filled with water to the height of about four and a half inches, and two and one-half to three ounces of commercial aniline are added, which will sink to the bottom of the vessel.

The temperature of the beaker and its contents is now raised to 170 or 175 degrees Fahrenheit by means of a burner, when it will be observed that the aniline will rise to the surface of the water, from which it will hang in a mass of curved outline. Almost immediately the suspended aniline commences to alter in shape, and gradually a large drop an inch or more in diameter detaches itself from the mass and falls through the water.

And now, the detached drop having fallen to the bottom of the beaker, comes the surprising part of the experiment. The fallen drop is seen gradually to rise to the surface, where it joins the mass from which it previously broke away. At once another drop commences to form and, having become detached, falls and rises in the same manner as the previous drop.

So long as the temperature of the water is maintained at 170 degrees Fahrenheit or over this procedure continues indefinitely. —Spokane Spokesman-Review.

Worked Both Ends.

Queens at their best are but women. Said Mary of Modena once in her days of exile, "It took all the jewels that all the goldsmiths could procure to decorate my crown." She was "powdered" with gems, which Fountain-hall says "made her shine like an angel."

And Queen Caroline, too, the wife of George II, used to allude to Lord Hervey's rather personal remark that her crowning dress "was as fine as the accumulated riches of the city and suburbs could make it, for, besides her own jewels, she had on her head and shoulders all the pearls she could borrow of the ladies of quality at one end of the town, and on her petticoat all the diamonds she could hire of the jewelers at the other."

The Polar Bear.

The polar bear is a pretty formidable brute. A specimen of this species has been killed weighing 1,000 pounds and measuring nearly thirteen feet from nose to tail. The strength of the polar bear is beyond belief. One was seen feeding on the body of a white whale fifteen feet long and weighing at least three tons. The whale had been dragged by the bear out of the water on to the ice.

In These Degenerate Days.

"Hub," exclaimed the yardstick as it moved rapidly over the bolt of cloth, "you're not all wool."

"That's all right," retorted the bolt of cloth; "you're not a yard long, either."—Chicago Tribune.

A Jolt to Romance.

"Hubbly, you have a lock of my hair, haven't you?" "Of course." "See if you can match it in some puffs when you go downtown."—Pittsburg Post.

RED TAPE IN GERMANY.

A Railway Ticket, a Controversy and a Delayed Train.

In an account of the duchy of Teck and its inhabitants by the Rev. S. Barling-Gould an amusing experience is thus described by the author:

"We are wont, we Englishmen, to grumble at red tapism, but with us it does not go beyond the government offices. In Germany it is everywhere. I had an instance of it between Ober Lenningen and Owen. I had asked at the former place for a third class ticket to Owen and had stepped into a third class carriage. On these branch lines nearly every one travels fourth. I counted twelve compartments, fourth, nine third and three second. There was no first class compartment. Before reaching the next station—in fact, a mile from Ober Lenningen—the inspector came round.

"'Hab, you have a fourth class ticket and are in a third class compartment! The fine is 6 marks.'"

"I explained and offered at once to pass into an inferior carriage or pay the difference.

"That will not do. You have infringed the law and must pay 6 marks.' "I got out at Owen and will explain matters to the station master.

"I did so.

"The fine is 6 marks,' said this latter peremptorily.

"'But,' said I, 'I demanded a third class ticket and was given one for which I had not asked. This was an oversight of the clerk.'"

"'You should have examined your ticket.'"

"The train was delayed five minutes while the matter was thrashed out on the platform, the travelers craning their necks out of the windows of their respective carriages, looking on and listening with lively interest. At last reluctantly the station master yielded. I must pay the difference.

"What is it?"

"One penny!"

MADE THE GUESTS PAY.

Demanded Tips For the Servants at the Court of Napoleon III.

"Before we left Compiègne at the conclusion of our visit at the court of Napoleon III," writes Mme. de Hegermann-Lindencrone in Harper's, "when we were taking our morning tea we were interrupted by the coming in of the major domo, who handed us a paper. We were not unprepared for this visit, as he had been told by one of the guests who had been here before that every one was expected to remain in their rooms until this important personage had made his rounds in order to collect the pourboire. I say pourboire because what one generally gives separately is lumped into one sum. This paper, which he handed to us almost at the point of his halibarde, proved to be a *gratitudo* receipt for 500 francs—our pourboire!

"We were rather a subdued party in the train. The conversation mostly turned on the subject of pourboires. The hussler decided the exact amount that each ought to give. For instance, he knows an ambassador ought to give 2,000 francs. For a minister of state 1,000 francs suffice. Unofficial people like ourselves cannot be expected to be out of pocket more than 600 francs. As for the poor nobility of France, they escape with 500! Some were of opinion that it was pleasanter to give en masse in one big sum than to give in dribbles, others thought it more satisfactory to hand one's offering personally to the different servants, but we all with one voice voted the officious beadle an imposition."

The Stickleback Legend.

The stickleback is one of the species of fish that build nests. There is a legend that the stickleback builds a nest because during the deluge it pulled the tow out of the bilge hole of the ark, and if it had not been for the hedgehog, who plugged up the leak with his own body, Noah and his sons would have had an exciting time baling out their boat. When Noah found out who had done the deed he ordered as a punishment that the culprit should be compelled each year to build a nest, while other fishes would have an easy time of it.

Her Act.

"Well, have you heard the news," asked a friend brightly. "My wife and I are going on the vaudeville stage. A clever friend has written an act for us and we are going to put it on next week."

"Good work, old man," we exclaimed enthusiastically. "What is it—a song and dance act or a society sketch?"

"Neither—it is a monologue."

"A monologue? I thought you and your wife were both in the act."

"We are. But—do you know my wife?"—Cleveland Plain Dealer.

Physical Difficulty.

"Is it anything serious, doctor?" asked a youth of a doctor after the latter had examined him.

"No, no; not at all," replied the medical man. "Nothing serious—just a little stiffness in the back of your neck my lad. But you must keep an eye on it."—London Telegraph.

Came Partly True.

"Before marriage I used to dream of life in a fine house, with sixteen servants."

"Dreams never come true."

"They do, partially. We live in a flat instead of a house, but we've had the sixteen servants."—Washington Herald.

A Sure Sign.

Bangs—Are you a good weather prophet? Bings—Only when the baby swallows a safety pin. Then I know there's to be a squall.

WARRANT OFFICERS.

Their Grade in the Naval Service and the Pay They Draw.

The grade of warrant officer in the navy forms one of those naval castes which are puzzling to the civilian, says Searchlight Philosophy.

The warrant officer holds his position by virtue of a warrant issued by the secretary of the navy.

The warrant rank is next below that of midshipman and consists of boatswains, gunners, carpenters, warrant machinists, sailmakers and pharmacists. The pay is graded according to the length of service and nature of the assignment.

During the first three years the pay on sea duty is \$1,500, on shore duty \$1,125 and on leave or waiting orders \$875 a year. The pay rises with each three years of service until the time of service exceeds twelve years, after which period the pay reaches \$2,250 while a sea duty, \$2,000 on shore duty or detached assignments and \$1,500 when on waiting orders or when on leave.

All gunners are not warrant officers, but when a gunner has attained a warrant officer's rank he has, under the commissioned ordinance officer, charge of the ordnance, magazines, etc. The warrant officer gunner is usually an apprentice with a good record, appointed after examination upon the recommendation of the commanding officers.

When the ship's carpenter is a warrant officer he is chief of all the artisans and mechanics. This force is called the carpenter's gang and consists of shipwrights, plumbers, pipefitters, blacksmiths, painters and carpenter's mates. After ten years' service the carpenter was formerly commissioned chief carpenter, with the rank of ensign.

The boatswain is one of the most important of the warrant officers. He has, under the executive officer, charge of the rigging, anchors, cable, cordage, etc. He summons the crew at all general evolutions and acts as assistant to the executive in carrying on the general business of the ship. The badge of office of the boatswain is his call or whistle.

COLORS AND NERVES.

Red and Yellow Are Said to Have a Stimulating Effect.

That colors have a profound psychological effect on human beings is a fact that should be emphasized. Used in small quantities, either in the clothing or in household decoration, the color red, for instance, is most stimulating, both in the way of helping to overcome depression and quickening the intellectual processes. But when used in any amount it tends to overstimulation, with resultant nerve strain. According to a leading English authority who has made a careful study of the psychology of colors,

there are some people so constituted that they become violently excited, fall into convulsions or faint if obliged even for a short time to look at anything vividly red.

The same effect has been noted from yellow. In one instance, the case of a man operated on at the age of thirty years for congenital cataract, it is recorded that "the first time he saw yellow he became so sick that he thought he would vomit." And that yellow has a nerve stimulating effect fully comparable with that of red is curiously evidenced by the statement of a friend of mine, a shrewd observer, who says:

"Whenever the day is overcast or I have to do a piece of work calling for unusual mental exertion I always wear a red or yellow necktie. I find that either color has a beneficial effect on my thinking apparatus."—H. Addington Bruce in *Ainslee's*.

Bursting Steel.

An experiment that demonstrated the capacity of steel to endure greater pressure than the hardest stone was made in Germany. Corundum was chosen for the stone, and small cubes of both substances were placed under pressure. A weight of six tons smashed the corundum, but forty-two tons were required to crush the steel. When the steel did give the effects are described as remarkable. With a loud explosion the metal flew into powder, and its sparks are said to have bored minute holes in the crushing machine. —New York Tribune.

No Free Hand Drawing.
Son—Father, I've decided to become an artist. Have you any objection?
Father—No, provided you don't draw on me.—Boston Transcript.

Mean.

"What did the lady say when you told her I was out?"
"She smiled and said, 'Friday's not always an unlucky day.'"

Free. Dr. Pierce's Common Sense Medical Adviser, containing 1008 pages, is sent free on request. This great work discusses questions of vital interest to every one, married or single. It is sent absolutely free on receipt of stamps to pay expense of mailing only. Send 21 one-cent stamps for paper covered book, or 31 stamps for the same edition in strong and handsome cloth covers. Address Dr. R. V. Pierce, Buffalo, N. Y.

M. H. Peters, M. D., of No. 124 East 120th street, New York, N. Y., a physician who has had forty years practice, writes of the Medical Adviser as follows: "I consider it a valuable work for the use of all the young. It is so explicit that young men or women who have not had the opportunity of being educated will readily comprehend and glean from its contents gems to protect their health; and may, as age comes on, refer to it with gladness. The young mother will also learn lessons to assist her. So many young mothers are ignorant in every detail as to the care of their offspring."

Hood's Sarsaparilla.

Rheumatism

IS A CONSTITUTIONAL DISEASE. It manifests itself in local aches and pains,—inflamed joints and stiff muscles,—but it cannot be cured by local applications.

It requires constitutional treatment, and the best is a course of the great blood-purifying and tonic medicine, Hood's Sarsaparilla, which corrects the acid condition of the blood and builds up the whole system.

My father had been afflicted for years with rheumatism, kidney trouble and nervousness. He was weak and losing flesh. He then began taking Hood's Sarsaparilla and is now well.—Ora E. Campbell, Washington, Ind.

There is no real substitute for HOOD'S SARSAPARILLA. Get it today in usual liquid form or choicest tablets called SARSATABS. 56-55

Plumbing.

Good Health and Good Plumbing GO TOGETHER.

When you have dripping steam pipes, leaky water-fittings, foul sewerage, or escaping gas, you can't have good health. The air you breathe is poisonous; your system becomes poisoned and invalidism is sure to come.

SANITARY PLUMBING

is the kind we do. It's the only kind you ought to have. We don't trust this work to boys. Our workmen are Skilled Mechanics, no better anywhere. Our

Material and

Fixtures are the Best

Not a cheap or inferior article in our entire establishment. And with good work and the finest material, our

Prices are lower

than many who give you poor, unsanitary work and the lowest grade of finishings. For the Best Work try

ARCHIBALD ALLISON,

Opposite Bush House - Bellefonte, Pa. 56-14-iv.

Fine Job Printing.

FINE JOB PRINTING

A SPECIALTY

AT THE

WATCHMAN OFFICE.

There is no style of work, from the cheapest "Dodger" to the finest

BOOK WORK,

that we can not do in the most satisfactory manner, and at prices consistent with the class of work. Call on or communicate with this office.

Children Cry for Fletcher's Castoria.

—Subscribe for the WATCHMAN.

Patents.

PATENTS, TRADE MARKS, COPYRIGHTS, &c. Anyone sending a sketch and description may quickly ascertain our opinion free whether an invention is probable patentable. Communications are strictly confidential for securing patents. 50 years experience. Patents taken through Munn & Co. receive Special Notice without charge in the
SCIENTIFIC AMERICAN,
a handsome illustrated weekly. Largest circulation of any scientific journal. Terms \$3 a year; four months \$1. Sold by all newsmen.
MUNN & CO.,
631 Broadway, New York.
Branch office, 625 F St., Washington, D. C.

Money to Loan.

MONEY TO LOAN on good security and houses to rent.
J. M. KEICHLINE,
Attorney-at-Law,
Bellefonte, Pa.
51-14-ly.

Travelers Guide.

CENTRAL RAILROAD OF PENNSYLVANIA.

Condensed Time Table effective June 19, 1911.

READ DOWN			STATIONS			READ UP.		
No 1	No 5	No 3				No 6	No 4	No 2
a. m.	p. m.	a. m.	Bellefonte	Ar.	p. m.	a. m.	a. m.	a. m.
7 05	6 45	2 20	Bellefonte		9 40	5 05	9 45	
7 15	6 55	3 30	F. Nigh		9 27	4 52	9 33	
7 27	7 07	3 37	Hutchinson		9 21	4 47	9 27	
7 37	7 17	4 45	Hutchinson		9 15	4 41	9 21	
7 59	7 39	5 07	F. Dunkle		9 13	4 38	9 18	
8 03	7 43	5 51	Hutchinson		9 09	4 34	9 14	
8 17	7 57	6 15	F. Snyderstown		9 06	4 29	9 10	
8 47	8 27	7 05	Nittany		9 02	4 25	9 07	
8 57	8 37	8 01	Hutchinson		9 02	4 24	9 04	
9 17	8 57	9 05	Lamar		8 59	4 21	9 01	
9 27	9 07	9 30	Clintonville		8 56	4 18	8 58	
9 37	9 17	10 12	F. Krider's Station		8 52	4 14	8 55	
9 56	9 36	11 05	Mackeyville		8 48	4 09	8 50	
10 02	9 42	12 02	F. Cedar Spring		8 42	4 03	8 44	
10 05	9 45	12 32	Salona		8 40	4 01	8 42	
10 10	9 50	1 30	MILL HALL		8 35	3 56	8 37	
(N. Y. Central & Hudson River R. R.)								
11 40	8 45	Jersey Shore			3 09	7 40		
12 15	9 20	Arr. WMPORT		Lve.	2 35	17 10		
12 27	11 30	Lve.		Arr.	2 30	6 48		
(Phila. & Reading Rv.)								
7 30	6 50	PHILADELPHIA			18 36	11 30		
10 10	8 50	NEW YORK				9 00		
(Via Phila.)								
p. m. a. m. Arr. ↑ Week Days. Lve. a. m. p. m.								
WALLACE H. GEPHART, General Superintendent.								

BELLEFONTE CENTRAL RAILROAD.

Schedule to take effect Monday, Jan. 6, 1910.

WESTWARD			EASTWARD					
Read down	STATIONS		Read up					
↑No 5	↑No 3	No 1	↓No 2	↓No 4	↓No 6			
p. m.	a. m.	a. m.	Lve.	Ar.	a. m.	p. m.	p. m.	
2 00	10 15	6 30	Bellefonte		8 50	12 50	6 00	
2 07	10 20	6 35	Coleville		8 40	12 40	5 50	
2 12	10 25	6 38	Morris		8 37	12 37	5 47	
2 17	10 27	6 43	Stevens		8 35	12 35	5 45	
Time Centre.								
2 21	10 30	6 45	Hunter's Park		8 31	12 31	5 40	
2 28	10 34	6 50	Fillmore		8 28	12 28	5 35	
2 32	10 40	6 55	Brinley		8 24	12 24	5 30	
2 35	10 43	7 00	Waddell		8 20	12 20	5 25	
2 50	10 57	7 12	Krumrine		8 07	12 07	5 07	
3 20	11 10	7 25	State College		8 00	12 00	5 00	
that we can not do in the most satisfactory manner, and at prices consistent with the class of work. Call on or communicate with this office.								
F. H. THOMAS, Supt.								

Children Cry for Fletcher's Castoria.

STORE

Will be Closed Tomorrow,

Saturday until 6 p. m.

JEWISH HOLIDAY

Allegheny St.,
Bellefonte.

The Fauble Stores.

The Best Store for Men and Boys in Central Pennsylvania.