

# The Daily Astorian.

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## SCIENCE IN MODERN WARFARE.

Victory in modern times is generally on the side of the largest armaments. It was so even in ancient times. Napoleon took care to have the best equipment. His disciplined men relied upon the best of weapons. When France and Germany recently engaged in war, the difference in arms was a striking one. The chasseur on which the French placed so much reliance was, probably, inferior to the needle gun. Krupp's rifled cannon were superior to the lighter guns used by the French. Victory in the end declared in favor of the best armament, although other causes also made for the Germans. Sometimes battles are won by very inferior arms. Our ancestors in the Revolution had nothing better than flintlock muskets of large, smooth bore, horse pistols, a few sabers and some light, smooth-bore cannon. Yet they were marksmen, having had the experience of a frontier life, and they were a match at all times for an equal number of British veterans, who generally had better weapons.

War has now become more a matter of science than ever before. It is not now a conflict with spears, shields, crossbows, war galleys and Greek fire. But rather with such engines of destruction as never before were employed in war. The Roman emperor battered down the walls of Jerusalem with a beam having a metal head, called a "battering ram." Two thousand years ago walled cities were taken in this way, or not at all. The battering engine now is a rifled cannon, delivering nearly a ton of metal with precision, a distance of five miles or more. Ordinary fortifications go down before these engines in a few hours. The bombardment of Alexandria is the last striking illustration of the fact that victory is on the side of the best armament. The strong citadels along the water front of Alexandria went down under the terrible fire of the iron-clads. A bombardment of two days would reduce the city to a heap of ruins. One of the armored ships was pierced through sides of metal many inches thick. There were great guns on both sides, but the British had the largest ones, and the most of them. The levitians of the deep dealt with this fortified city as if resistance was hardly more than the amusement of the day. Not a ship was incapacitated in the least or greatly injured.

Of course heavy armaments alone do not insure victory. Back of this must be trained men. England is able to assert her supremacy any day with her navy, which for strength has never been surpassed in the history of the world. She cultivates, for the most part, ways of peace; and is often taunted that she has ceased to be warlike. But there is the reserve of power—her unequalled navy, her cannon and small arms which embrace the best ever put into the hands of soldiers. It may be true that the forces were not equally matched at Alexandria. The Egyptian soldier is not equal to the British soldier. Nor are the brick and stone fortifications about Alexandria equal in strength to the armor-plated ships. But the difference illustrates the point made, that the victory goes, other things being equal, with the strongest armament. Egypt has no navy of any consequence. Old citadels, once supposed to be strong enough to resist any force which enemies could array against

them, are now nothing but inviting targets for modern gunnery. Great Britain was represented before Alexandria with some of the most formidable ships of war known in the history of the world. When the rain of shot and shell began there could be no question about the issue. Greek fire had been superseded by a fire which carried with it such projectiles as no citadels now in existence could long resist, not even those of modern construction, much less those about Alexandria. It is the old story. Victory is on the side of the heaviest guns. Science has invested modern warfare with a terrible significance. Perhaps the Mohammedan fanatics of Egypt will awake from a dream to learn that the world moves; and that the "Infidel" no longer flees before the followers of the Prophet.

### The Citadel of Cairo.

The citadel of Cairo, which is now being strengthened and furnished with stores for a garrison of 13,000 men, in expectation of England's threatened attack, stands on a steep, rocky bluff above the city. It was the favorite residence of the famous Egyptian dictator of the last generation, Mehemet Ali Pasha, who strongly fortified it and kept a number of heavy cannon constantly pointed from its walls to the city below to overawe the disaffection which his iron rule inevitably produced. The walls are still in tolerable repair, and might give trouble to a force unprovided with heavy siege artillery. Above the ramparts are visible at a considerable distance the tall, slender, white minarets of the Mohammedan Mosque, built by Mehemet Ali. This is one of the principal ornaments of Cairo, its interior being decorated with a richness of coloring unmatched in the world, except, perhaps, by the Alhambra palace at Granada. In front of the main entrance lies a vast paved quadrangle surrounded by a low colonnade, which has acquired a tragic historical renown as the scene of the famous "massacre of the Mamelukes" by order of the Pasha. Mehemet, finding in the turbulent independence of these warlike chiefs a formidable obstacle to his cherished scheme of absolute power, invited them to a banquet in the courtyard of the citadel. They rashly accepted the treacherous courtesy, and were suddenly fired upon in the midst of their revel by a detachment of soldiers concealed in the encircling colonnade. All perished save one, the son of the principal chief, who, alone preserved his presence of mind, threw himself upon the ground succeeded in reaching his horse, which was tied to an adjoining pillar. Springing upon its back, he cut his way through the swarming assailants, and finding the gates shut against him, took a flying leap from the top of the wall, a height of eighty feet. The horse was killed on the spot, but the daring Mameluke, escaping with a broken limb, crawled away and hid himself before he could be overtaken.

### How Sharks are Utilized.

The skins of certain sharks are used in jewelry, for sleeve buttons and the like, and when dried and cured take a polish almost equal to that of stone. The vertebrae of the shark are always in demand for canes. The opening filled with marrow during life is now filled with a steel or iron rod. The side openings are filled with mother of pearl, and when polished the cane is decidedly ornamental. In India, in 1880, \$300,000 worth of shark fins were shipped to China for food.

In the islands of the Pacific the fish is in great demand for its teeth, which are manufactured into weapons of various kinds, ranging from spears to swords and daggers. The teeth are all serrated, or saw-edged and make terrible wounds. The base of the tooth is bored with some instrument, and 40 or 50 lashed to a hard-wood sword, forming the edge. The hilt is also protected by cross pieces armed in the same way. So effective are these weapons that the natives of these islands wear an armor made of rope especially to protect themselves against the shark's teeth.

### How the Cable Talks.

An operator sits at a table in a room darkened by a curtain. On his left hand stands a little instrument, named the "reflecting galvanometer"—the invention of Sir William Thompson, without which Atlantic telegraphy would be a slow process, not exceeding two or three words per minute, instead of eighteen or twenty, the present rate. This delicate instrument consists of a tiny magnet and a small mirror hanging on a silken thread, the two together weighing but a few grains. The electric current, passing along the wire from Valencia, deflects the magnet to and fro. The mirror reflects a spot of light on to a scale in a box on the operator's right hand, where, by its oscillation, the spot of light indicates the slightest movements of the magnet, which are too slight to be distinctly seen. This little swinging magnet follows every change in the received current; and every change, great or small, produces a corresponding oscillation of the spot of light on the scale. A code of signals is so arranged by which the movements of the spot of light are made to indicate the letters of the alphabet. When receiving a message from Valencia, the operator watches the movement of the little speck, which keeps dancing about over the scale to his right. To his practiced eye, each movement of the spot of light represents a letter of the alphabet; and its seemingly fantastic motions are spelling out the intelligence which the pulsing of the electric current is transmitting between the two hemispheres. It is truly marvelous to note how rapidly the experienced operator disentangles the irregular oscillations of the little speck of light into the letters and words which they represent.

A New York cigar manufacturer, having been got to talk about the effect of the reduction from \$6 to \$4 in the tax on cigars, says: "The American people are not a smoking people to any great extent," because 50,000,000 people only smoke 27,000,000 cigars a year. Mr. Lichtenstein's idea of a "smoking people," apparently, is one where every man, woman and child of the whole 50,000,000 smokes. Considering that half the population are women and another large fraction children and invalids, it would seem as though we were a sufficiently smoking people. The number of males in the country over twenty-one years of age is a little short of 13,000,000, so that the consumption of cigars averages 275 a year for every man of voting age.

Miss Anna Dickinson and Susan B. Anthony are to play, it is whispered, in "Much Ado About Nothing." Miss Susan is to be Much Ado and Miss Anna, Nothing.

### Amoyance Prevented.

Gray hairs are honorable but their premature appearance is annoying. Parker's Hair Balsam prevents the annoyance by promptly restoring the youthful color.

## SYMPTOMS OF WORMS.

The countenance is pale and leaden-colored, with occasional flushes of a circumscribed spot on one or both cheeks; the eyes become dull; the pupils dilated; an angry, convulsive tremor along the lower eyelids; the nose is irritated, swells and sometimes bleeds; a swelling of the upper lip; occasional headache, with humming or clashing of the ears; an unusual secretion of saliva; slimy or furred tongue; breath very foul, particularly in the morning; appetite variable, sometimes voracious, with a gnawing sensation of the stomach; at others, entirely gone; decided pain in the stomach; occasional nausea and vomiting; violent points throughout the abdomen; bowels irregular, at times constipated; chest, thin, and infrequently filled with phlegm; occasionally difficult and accompanied by hemorrhage; cough sometimes dry and constant; sleep uneasy and disturbed sleep, with grinding of the teeth; temper variable, but generally irritable.

Whenever the above symptoms are found to exist,

Dr. C. McLANE'S Vermifuge will certainly effect a cure.

In buying Vermifuge be sure you get the genuine DR. C. McLANE'S VERMIFUGE, manufactured by Fleming Bros., 21 Wood Street, Pittsburgh, Pa. The market is full of counterfeits. You will be right if it has the signature of Fleming Bros. and C. McLANE. If your druggist does not have the genuine, please resort to us.

Send us a three-cent stamp for a handsome advertising card.

FLEMING BROS., Pittsburgh, Pa.

Furnished Rooms to Let

At Mrs. Munson's lodging house.

By Universal Accord.

AYER'S CATHARTIC PILLS are the best of all purgatives for family use. They are the product of long, laborious and successful chemical investigation, and their extensive use by physicians in their practice, and by all civilized nations, has proved them to be the most effective and safe purgative pill that medical science can devise. In intrinsic value and curative powers no other Pills can be compared with them, and every person, knowing their virtues, will employ them, when needed. They keep the system in perfect order, and maintain in healthy action the whole machinery of life. Mild, searching and efficient, they are especially adapted to the needs of the digestive apparatus, derangements of which they prevent and cure, if timely taken. They are the best and safest physic to employ for children, and weakened constitutions, where a mild and effectual cathartic is required.

For Sale by ALL DEALERS.


Peruvian Bitters

Cinchona Rubra.

The Count Clinch was the Spanish Viceroy in Peru in 1630. The Countess, his wife, was prostrated by an intermittent fever, from which she was freed by the use of the native remedy, the Peruvian bark, or, as it was called in the language of the country, "Quinquina." Grateful for her recovery, on her return to Europe in 1632, she introduced the remedy in Spain, where it was known under various names, until Linnaeus called it Cinchona in honor of the lady who had brought them to the world, and more precious than the gold of the Indies. To this day, after a lapse of two hundred and fifty years, science has given us nothing to take its place. It effectively cures a morbid appetite for stimulants, by restoring the natural tone of the stomach. It attacks excessive love of food, and does a fever, and destroys both alike. The powerful tonic virtue of the Cinchona is preserved in the Peruvian Bitters, which are as effective against malarial fever to-day as they were in the days of the old Spanish Viceroys. We guarantee the ingredients of these bitters to be absolutely pure, and of the best known quality. A cough, cold or sore throat should be stopped. Neglect frequently results in an inextinguishable lung disease or consumption. Brown's Bronchial Troches do not disorder the stomach like cough syrups and balsams, but act directly on the inflamed parts, allaying irritation, giving relief in asthma, bronchitis, coughs, catarrh, and the throat troubles, which singers and public speakers are subject to. For thirty years Brown's bronchial troches have been recommended by physicians, and always give perfect satisfaction. Having been tested by wide and constant use for nearly an entire generation, they have attained well-merited rank among the few staple remedies of the age. Sold at 25 cents a box everywhere.

Shiloh's Catarrh Remedy—a positive cure for Catarrh, Diphtheria and Canker Mouth. Sold by W. E. Dement.

A cough, cold or sore throat should be stopped. Neglect frequently results in an inextinguishable lung disease or consumption. Brown's Bronchial Troches do not disorder the stomach like cough syrups and balsams, but act directly on the inflamed parts, allaying irritation, giving relief in asthma, bronchitis, coughs, catarrh, and the throat troubles, which singers and public speakers are subject to. For thirty years Brown's bronchial troches have been recommended by physicians, and always give perfect satisfaction. Having been tested by wide and constant use for nearly an entire generation, they have attained well-merited rank among the few staple remedies of the age. Sold at 25 cents a box everywhere.

**HOSTETTER'S**  
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**STOMACH BITTERS**

It is the concurrent testimony of the public and the medical profession, that Hostetter's Stomach Bitters is a medicine which achieves results speedily, safely and benignly. Beside rectifying liver disorder, it invigorates the feeble, cures kidney and bladder complaints, and lessens the convalescence of those recovering from debilitating diseases. Moreover it is the grand specific for fever and ague.

For sale by all Druggists and Dealers generally.

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THE UNDERSIGNED IS PLEASED TO announce to the public that he has opened a

**FIRST CLASS Eating House,**

And furnishes in first-class style

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AT THE

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**SEWING OF ALL KINDS**

Our trade is the best style from \$2 to \$20.

Satisfaction Guaranteed.

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From Chemamus St. to Cass St.

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A fine stock of

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Rifles, Revolvers, Pistols,

and Ammunition!

**MAKING**

**GLASSES**

Also a fine

Assortment of fine SPECTACLES and EYE

GLASSES.

**Notice.**

**THE DELINQUENT TAX ROLL FOR**

the year 1881, together with a warrant

from the County Court for the collection

of the same, is in my hands. Delinquent tax-

payors will please settle at once and save

costs.

A. M. TWOMBLY, Sheriff.

**Notice.**

**THE PARTNERSHIP HERETOFORE EX-**

isting between J. T. Borchers and F. M.

Collins in the fish packing business, under

the name of "The Astoria Variety Packing

Co.," is this day dissolved by mutual consent.

The business will hereafter be conducted

by