The Campaign Against Russia's Last Eastern Stronghold; The Crowning Humiliation of the Russo-Japanese War



Russo - Japanese war and even previous to the first brilliant naval demonstration at Port Arthur it seemed to be the opinion of the outside world that the Japanese plan of invasion was like-

ly to be restricted to the east Asian littoral. In those speculative days it was conceded that the Japanese naval power was a thing to be reckoned, but the strength and availability of the empire's land forces were undestimated. After Togo's preliminary successes at Fort Arthur it was confidently predicted that the blow inflicted upon the astonished Russians would be followed by a similar demonstration against Viadivostok. The exhibition was given as advertised, and it was a vivid one, but the magnitude of the task of reducing Port Arthur and the subsequent activity on the mainland relegated Vladivostok to comparative obscurity.

Now, however, the project of subjecting Russia's remaining stronghold in the orient to a similar experience awakens the keenest interest in everything that concerns that solitary fortress. It is announced authoritatively that Japan is planning a land and sea campairs against this advanced post of the Russlan empire in the east. With the sickening fate of Port Arthur fresh in mind, this latest frank and direct avowal of the Japanese intention comes with a shock.

The impregnability of Port Arthur was for so long a matter of uncertainty Russia has still in her possession a stronghold whose claim to impregnabil-



VLADIVOSTOK, AGAINST WHICH THE JAPANESE WILL SHORTLY OPEN A CAMPAIGN BY LAND AND SEA.

and its claim to that distinction was actual observation, Vladivostok is safe from all external molestation dur-disproved at such a fearful cost that strong where Port Arthur was strong ing its protracted hibernation as is the less baffling in its natural configuration with batteries and fortifications. The the world will hesitate to believe that and strong also where that fortress was shrew in its burrow. This natural defense confers impregnability on the tok is situated on the guif of Peter the erected on an island at their mouths are not regarded by the Japanese naval outlet, and all the schemes of territoweak.

First and of great strategic importo the military wiseacres, especially ther by land or by sea, during the long those who have had the advantage of and pitiless Siberian winter. It is as the rigors of a subarctic winter.

port for several months in every year. Great, an arm of the Japan sea. The and innumerable islets just outside on authorities as especially formidable, rial expansion which have inflated the ity is even more plausible than was that tance is the fact that Vladivostok can- Whatever is done toward its reduction town is built on the slopes of a high which are many defensive works of vaof the fallen Gibraltar. Yet, according not be invested by a hostile ferce, ci- must be carried forward with dispatch ridge forming a tapering peninsula into in order to avoid being overtaken by an tregular landlocked bay. There are the headlands, which stratch for miles It is not likely that the town could it would be bitterness indeed.

two narrow entrances to the harbor, to the eastward and are known as the be entered by an invading force.

water of the Golden Horn, which is at has made it possible to interpose many least four miles in length and a mile in powerful schemes of defense against width, the largest ships may ride safely the advance of an enemy, and the Rusat anchor, free from the menace of at- sian engineers have been puzzling their tack and beyond the reach of the brains for forty years to make apweather. Like Port Arthur, Vladivostok con- sible. There is nothing, however, to

tified. The population is about 15,000, be a simple question of endurance. excluding the military. There are at resistance that could be offered would the campaign.

of the Baltic fleet. The two or three sia's crowning humiliation. For forty and they are disposed to look upon the Muscovite breast have contemplated it

Golden Horn, are continuous chains of | from landward without a repetition of earthworks and other defenses. The the hard fighting that took place at lofty hills on the northwest protect the Port Arthur. The natural disposition port from the land side, and in the deep of the hills at the rear of Vladivostok proach from the rear practically impos-

sists of three portions. That nearest prevent the Japanese from completely the water is the military town, extend- investing the place. Once inclosed ing along the harbor and given up al- within the circle formed by the Japamost exclusively to storehouses, mill- nese fleet and the land forces, there tary quarters and officers' residences, would be nothing to expect from out-On the extreme north of the harbor are side. The Russians have no means of the official buildings and the private assembling or maintaining an army in dwellings of the government employees that vicinity sufficient to suggest any and private citizens. Beyond and prospect of relief, as was the case for higher still is the arsenal, strongly for- awhile at Port Arthur. It would only

It is undoubtedly a fact that Vladileast 6,000 Chinese and Koreans in the vostok is even better provided to sustown, and the remaining population is tain a long blockade than was Port Arexceedingly cosmopolitan. The garri- thur. When Russia decided to make it son consists of not less than 20,000 sol- the terminus of the Transsiberian road diers. At the outbreak of hostilities the she began to build storehouses and Chinese and Koreans fied, but in time military depots the like of which was they returned and brought their friends. unknown to Asia. This hoarding of It is announced that Admiral Uriu stores has never ceased, and at the will make use of the same naval tactics present time Vladivostok is full to which were so successful at Port Ar- overflowing of a great bulk of supplies thur. He will keep his ships well out absurdly disproportionate to its size of range of the fort guns and will at the same time maintain a blockade that sooner or later must be effective. If trance into the harbor without giving he succeeds in blocking the harbor en- the enemy an opportunity to fire the trances as soon as navigation opens in rows of giant storehouses which extend the spring he will have plenty of time to the water's edge they would obtain to accomplish his purpose. The only plunder enough to defray the cost of

be the possible appearance on the scene To lose Viadivostok would be Rusas a radiating center. To be shorn of

JAMES R. FULLER.

Chevalier Guglielmo Marconi, Genius and Benedict, Who Transmits Messages on Invisible Ether Waves



Marconi to the Hon. Beatrice O'Brien, a charming young Irishwoman of aristocratic

into public observation. With the exception of the German crown prince Dublin distiller.



things of life. and possibly that of the youthful king The wireless process as developed by of Spain, no other eligible young bache- Marconi is so simple that one is amazed for of the present generation has been that the clever Italian has been the the subject of so many reported en- first to appreciate it. It demands primarily a transmitter to give the imgagements. His final choice of an Irish bride may be regarded as a tender trib- pulse to the ether and a receiver to reute to the nationality of his mother, cord it. The transmitter consists essentially of a powerful induction coil, no was the pretty and clever daughwith one end of the secondary wire in or of old John Jamison, the famous the earth and the other in the air. At Not many inventors of Marconi's calthe receiver a wire of corresponding iber have been called upon to suffer height is elevated, and with it the waves are recorded. This sounds elefewer discouragements in the exercise the promptings of their genius than mentary, and it really is. It is so simas the discoverer of the wireless sys- ple that there is absolutely nothing that tem of telegraphy. He had no super- is likely to interfere with the success of stitions to combat, no accepted and it. Details that furnish complications arbitrary natural dicta to overturn. come afterward. The sending and re-Everything contributed to the develop-ment of his find. He was not obliged because it has been found that horito feel his way cautiously. Mankind zontal aerial wires are of no avail had already been so surfeited with whatever. These wires must be elemarvels sprung from natural sources vated a considerable distance from the that it could no longer be taken by sur- surface in order to deal with wide prise. The thing to be feared was that areas. This disposition of wires is the popular expectation could not be fully leading feature at the Marconi stations. that the powers of nature would They are affixed to high masts at the fall short of the public demand. permanent stations and are elevated by When the discovery of the wireless means of balloons or kites at the temtelegraph was announced there was no porary ones. shoul of derision and little manifesta-tion of incredulity. The world had been thrilled too frequentity to exhibit rap-thrilled too result. At this are forced. This is done by means of the dots and dashes of the Morse sys-three world had been thrilled too frequentity to exhibit rap-three to such an extent as to permit the point a vital feature of the Marconi ture over this latest revelation of nat- the induction coil, the power being fur- tem may be multiplied at will. From system comes into active use. In the is filled with a mixture of nickel and battery circuit attached to them. When ural possibilities. The conclusions of nished by an ordinary alternate cur- high perpendicular wires, thus alternate- receiving wire, as a part of its circuit, sliver filings. the young Italian experimenter were rent generator. In the transmitting ly charged and empty, waves are sent received with a dignified acquiescence, current is a telegraphic key. By de- through the ether, spreading in all di- a "coherer." This is a small glass tube great that a current cannot pass until which, in turn, operates the recording



instrument. Now a little tapper like the buzzer used in electric bells starts automatically and raps the glass tube until the filings separate anew. This is in substance the manner in which messages have been ticked into the receptive ether at one point and extracted from the same medium at another far distant.

Guglielmo Marconi's childhood and early youth were passed near Bologna, where he was born in the year 1874. His father, a landed proprietor of considerable wealth and standing, married for his second wife Anna Jamison of Dublin, who was a student in music at the Bologna conservatory. A brother and a sister are now living with the father and mother in a handsome house in Bologna. The children of this later marriage learned English from their mother. Both sons speak it so fluently that there is no accent observable,

Marconl developed a taste for electrical investigation when he was a child and a pupil of the same educational inich the great Galvani was once a professor. He was afterward sent to England at the solicitation of his mother, and he conducted a series of experiments in that country which gave him an insight into his future career. Returning to Bologna, he continued to work out the problem on his father's estate and was given every encouragement by both of his parents. Finally, believing that he had succeeded, he took his models to England and submitted them to the authorities of the postoffice department. They were enthusiastic over the discovery, but no contract was made at that time, and Marconi returned to Italy.

pressing this key for longer or shorter | rections. They reach the perpendicu- | almost filed by two silver plugs, one st | an ether wave strikes them and the

GUGLIELMO MARCONI AND HIS BRIDE, HON. BEATRICE O'BRIEN.

The resistance of these filings is so relay is actuated by the local current,

The Italian government was greatly interested in the matter and gave the young man every opportunity, at one time plucing at his disposal two battleships to be employed in a test.

SILAS B. HUTCHINS.

An Important New Pacific Naval Station For Uncle Sam; The Negotiations With Ecuador Are Now Progressing

HE persistent rumor that the United States government has decided to purchase the Galapagos islands has recently derived additional strength from certain semiofficial admissions made at

Washington. The probability of such action on the part of the government is demonstrated still further by the announcement that diplomatic negotiations of importance are in progress between the Washington authorities and Ecuador, the owner of the property in question. In his last message the president of Ecuador discussed the matter of the sale at considerable length.

Senator Lodge introduced a resolution into the Fifty-sixth congress prorosing the purchase of the archipelago, but nothing came of it. It was suggested at the time that about the only reason that could be urged in favor of the purchase was that of forestalling ne meddlesome European power. Since the acquisition of the Panama canal by the United States the matter has assumed a different aspect. Under existing circumstances the islands would form an excellent base for naval safeguarding.

The Galapagos group lies about 600 miles west of Ecuador, and it is of no actual value to that republic. She has never made but one attempt to colonize it, and that was a dismal failure. About sixty-five years ago a penal colony of 200 convicts, all negroes, was established on one of the islands, but in the

course of time all of these unwilling settlers managed to return to the mainland. Since then the islands have been practically deserted, except Chatham, established a plantation there and peopled it with Guayaquil laborers.



PINTA

ABINGDON 1

the vessels plying between North and pronounced them one of the wonders of ters.

would become the stopping place for all | the over their scientific attractions. He the brims of hundreds of blazing gra- | pelago and, save one other, the farthest

South American ports. They lie about the world. It was his theory that the islands had never been united, but had never been united, but had equation of purchase center. It is topped by six buge craequator and consist of eleven good sized always protruded from the water as for reasons not so important as those ters, the greatest 4,700 feet in height, all viewed from the sea. The lava is half Darwin visited the islands, sixty-five the property of Senor Cobos, who has islands and a host of unimportant sat- separate volcanic peaks. Each of the which new obtain, Commander Tanner ellites. They are of unmistakable vol- larger islands is a succession of pecul- of the navy was sent to explore the One of the harbors selected by the com- closer inspection proves to be a variety of animal life which were comparative-Charles Darwin once iarly uniform volcanic cones welded to- group. His report shows that Albe- mander as a suitable station for the of cactus which flourishes during the ly unknown on the mainland. If the Galapagos were inhabited they visited them and came away enthusias- gether by black lava once poured from marle, the largest island in the archi- American navy lies between Albemarle rainy season and then withers and

| and Narberough, the westernmest and | turns black. Toward the interior the highest of the group. This prospective prospect grows quite different. Asharbor is formed by no extinct crater, cending from the coast to an elevation and its added ate so precipitous that the of from 800 to 1,000 feet, one enters a interior is not perceptible from the region of the most luxuriant vegetation. open son.

the wave starts this second current a

From Albemarle Commander Tanner the decomposed lava soil is extremely proceeded to Charles Island, which lies rich, and all forms of tropical plant life to the southeast of the large member of are developed rapidly. Numerous the group and is only about twenty- springs are found in these basins, and four miles in circumference. It is a showers are frequent, succession of round topped cones, the loftiest 1,780 feet in height. This is habitat of the most gigantic species of the island upon which Ecuador made land tortoise known to naturalists. It the attempt to establish a penal colony, was from this animal-the galipago-The settlement was five miles inland on that the name of the group was derived. a lava plain 1 000 feet in height. Com- Single specimens of this huge creature mander Parmer found Charles Island frequently weigh 400 pounds and over. uninhadated by human beings, although One mentioned by Darwin required the live shock loft by the absconded eight men to lift it from the ground. convicts had multiplied greatly.

dominent of the island on a primi station of delicious meat, and its shell is a mara party from the vosel Albatrady went ketable commodity. Such numbers of ashore to collect speciment. Greatly to these fortolses have been taken-a sinthe surprise of the visitors, they discove gle vessel has been known to carry 700 ered a man, who seemed to be a second —that they threaten to become extinct. Robinson Cruser, He was almost has ked, and his han had grown to a great which has been most frequently exlength. He had lost all notion of time, plored, now the scene of Senor Cobos' but could still speak brokenly. He in- hacienda, is populated by thousands of formed his discoverers that he had domestic cats, all of them perfectly come thither many years before with a black. It is believed that they are departy in order to obtain a boat load of scendants from cats which have escapcaluable moss. His fellows had de- ed from ships that have stopped at the serted him, and since then he had been | island. They live in crevices between master of all he surveyed. He had been the lava masses near the shore and hle to obtain enough food to sustain subsist on crabs and fish. Other anilife from the animals left by the con- mais derived from domestic progenitors victs All of the islands are barren along

from the continent, is sixty miles in only a waste of shattered masses of are reported to have acquired the re-

In the craters of the extinct volcanoes

The Galapagos archipelago is the This glant reptile, easily taken and in-Several years subsequent to the aban- offensive, furnishes a bountiful supply

Chatham Island, one of the group are numerous. There are dogs in packs, fowls in flocks and herds of cattheir coast line, the landscape showing the and wild asses. The latter animals

CHARLES E. FENNO.