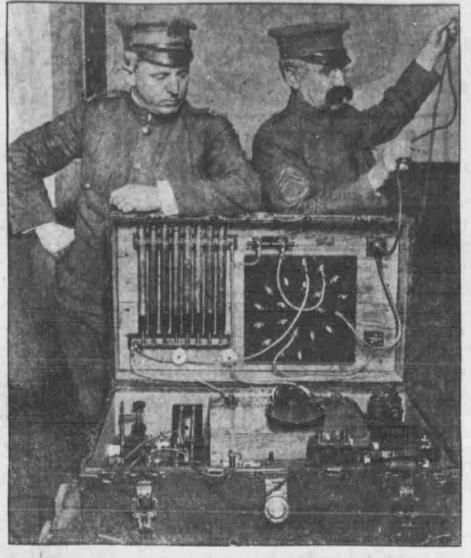
THE OMAHA SUNDAY BEE: APRIL 12, 1908.

# United States Army Wireless Telegraphy School at Fort Omaha



CAPTAIN MACK K. CUNNINGHAM, INSTRUCTOR, SIGNAL CORFS. AND SER-GEANT YURGENSON. MASTER SIGNAL ELECTRICIAN, READY TO RE-CEIVE WIRELESS MESSAGE WITH FIELD KIT.



THE northwestern corner of officer of the Department of the Missourt, the Fort Omaha military res- but now at Fort Leavenworth, is enlitted ervation and occupying a to much credit for the successful issue of sightly position at the crest of wireless telegraphy in the army. His work the ridge will be found a web- in Alaska in the installation of the wirelike steel tower of 176 fect in less system in that remote region is a height, with a small brick building adja- matter of scientific history and has been cent and just north of it. This is the new the subject of many theses on this subject wireless station of Fort Omaha, which has in scientific and electrical journals.

been but recently installed and equipped for the practical application of wireless. Fort Sill, Oklahoma,

for effective, long-distance wireless teleg- ment for active service.

along the Atlantic and gulf seaboard.

been fully demonstrated by the signal serv- and dissembling of instruments, batteries, ice of the United States army and is now insulation and their effective achievement, successfully practiced in all parts of the and everything connected with or pertaincountry and its territorial and insular pos- ing to a thorough knowledge of telegraphy

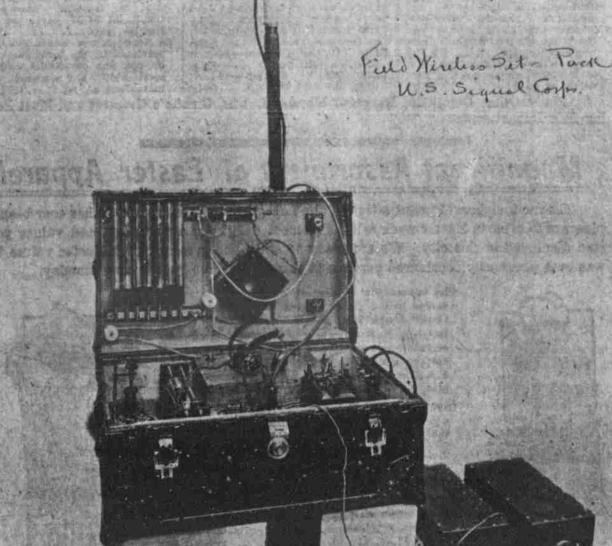
Growth of the School. telegraphy between Fort Omaha, Nebraska; The growth of the wireless telegraphy Forts Leavenworth and Riley, Kansas and system has been coincident with the development of Fort Omaha, where it is prac-The wireless telegraph house under the ticed to a more general extent in its initial shadow of the big tower is fully equipped stages of instruction than any other part with small engine, generators, dynamos of the country; the Fort Omaha school and batteries for the generation of a suf- being the primary school in wireless for the ficient electrical current for wireless pur- recruits of the signal service of the United poses and embodies every modern appliance. States army, and their subsequent equip-

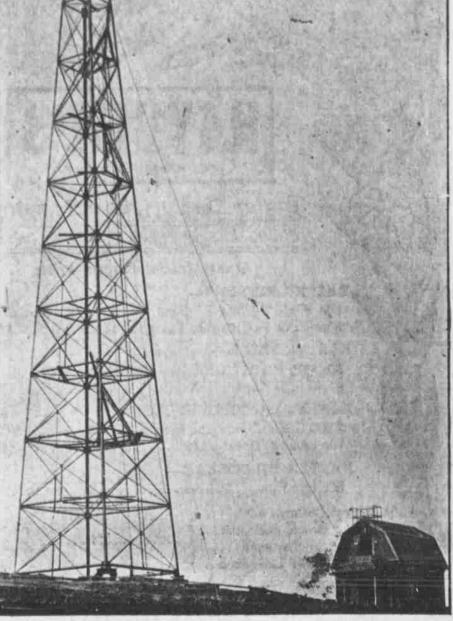
raphy. The wireless tower and its ap- The former barrack room of Fort Omaha, pertunances are not yet complete, but will which was in the old days of the fort the be in a few weeks, when a regular system administration building, has been metaof communication will be instituted be- morphosed into one of the most thoroughly tween the military posts named, which by equipped telegraph schools of the country, the relay system of rowers may be ex- Even the old mess house, a recently built tended to the uttermost southern borders of edifics, has been transposed into an adthe United States and from thence west- junct for the telegraph school. Here the ward to New Maxico, Arizona and Cali- recruits are taught the rudiments of telefornia, as well as to eastern military posts graphy and their instruction is progressive, embracing, as it does, everything that per-The efficiency of wireless telegraphy has tains to telegraphy, from the assembling

> and wire and wireless communication. A regular course of lectures is instituted for the instruction of the recruits, thesa



TESTING WIRELESS GENERATORS AT FORT OMAHA.





LONG DISTANCE WIRELESS TELEGRAPH STATION AT FORT OMAHA.

sands of electric wimeless waves or rays will result in the complete displacement of that are left loose reach the receiving sta- telegraphy. tion. These electric waves or rays are dis-

Officers in Command.

seminated in every direction. Frequently atmosphereic and electric conditions are so combined that the message may be suc- signal corps, U. S. A., is at present in cessfully dispatched hundreds of miles, command at Fort Omaha and occupies the or it may not reach the station intended at equally important position of chief signal all. All efforts to conserve these message officer of the Department of the Missouri. waves and start them in one general di- He is an ardent believer in the future of rection have failed, thus far, and the prob- wireless telegraphy and takes a deep, perlem of the conservation of the electric sonal interest in the work at Fort Omaha, waves is as remote as ever. The action of which is, of course, under his immediate the wireless electric ray or wave, as it is direction. He is one of the best informed discharged from the tower, is precisely the men in the country on all phases of army same as if a load of the finest of bird signalling and has watched its evolution shot was fired from a gun at a small, dis- from the old wig-wagging days of flags tant target. One or two of the shot might and torches to its present high developreach the target, but all of them would not." ment, in which he has been one of the It is on this principle that a wireless mes- most important factors. Colonel Glassford sage may be received by a dozen stations, is awaiting with much interest the compleeach of them in a different direction from tion of the big Fort Omaha tower, and it is the sending station. Thus the conservation his intention to give the wireless system of the wireless telegraph energy is the its severest test between Fort Omaha and problem of the future. In the ordinary Fort Leavenworth. telegraph wire, the wire affords the means Colonel Glassford has associated with of transportation for the message. With him at Fort Omaha a corps of very effi-

medium of carriage.

is Headquarters. With all these handicaps, so effective B. Grimm, William N. Haskell and Sheldy has the wireless system become that every C. Leasure, all of whom have been chosen military expedition is now equipped with a for their special qualifications as instructwireless outfit. Hundreds of these outfits ors in the various departments of the Fort are regularly sent out from Fort Omaha, Omaha Signal school, and improved outfits are being received at Some of the best telegraphers in the Fort Omaha constantly for assembling and United States army are connected with the testing, to be stored and made ready for Fort Omaha station. The time is not far immediate practical use when needed, distant, in Colonel Glassford's opinion, These outfits consist of extension steel when the Fort Omaha station will be the poles, guy ropes, coils of copper and in- chief wireless station in the United States. sulated wire, receiving desks, telegraph The central location of Omaha makes it eskeys, phones and receivers, batteries, wet pecially valuable for wireless experiments and dry, and chemicals, for filling broken to all parts of the country and it is beor exhausted batteries. The outfits are built for both, mounted will be in direct wireless communication and foot service, and are so constructed with every military post within a radius that they can be put in operation quickly, of 300 to 500 miles from the city of Omsha. and as quickly taken down. A recent invention, by an army officer, represents the sending out efficient operators to all parts perfection of the mounted wireless outfit, of the country for service in the military similar to the mounted telegraph outfit. establishment. These enlisted men are as-Messages can be received and transmitted signed to duty not merely with the army, by these outfits for five and ten-mile dis- but with the navy, with the cable ships and tances very effectively, while the column everywhere that expert telegraphers are is in motion, the effect being precisely the needed by the government. Some of the same as with the wireless signals received graduates of the Fort Omaha school who and transmitted by moving vossels at sea, have completed their terms of enlistment

Lieutenant Colonel William A. Glassford,

the wireless message, the air is the only cient officers of the signal service. These are Captains Mack C. Cunningham, William H. Oury, Charles B. Hepburn and Otto A. Nesmith, First Lieutenants Otto

Work.

On the occasion of the visit of Secretary being delivered by the officers of the sigof War W. H. Taft to Fort Omaha Tues- nal corps, who are experts in their reday last a couple of the field wireless spective fields of instruction. These lectowers had been erected at two points on tures are given weekly and are upon all the post grounds and a detail of the signal phases of electrology, the lecture corps was practicing. The attention of being a spacious hall in the school build-Secretary Taft was at once drawn to the ing. These lectures are illustrated by operation, the war secretary being an ar- diagram on blackboards, and by practical dent advocate of the wireless system for demonstration. In the work rooms teles army and navy purposes. graph instruments are taken spart and

"That's fine. Wireless telegraphy is a every item of their construction and for great thing and is peculiar to our army," what they are needed in the perfected insaid Secretary Taft to Colonel Glassford strument, the part they are to take to and the other officers and distinguished perfect the telegraphic communications are explained. The same practice is applied civilians accompanying the party.

"Yes, we use it a great deal about here," with telephone instruments and batteries, responded Colonel Glassford, "and have so that the signal corps man may know heen very successful with it. The men have what to do in an instant should the telebecome very proficient in crecting the field graphic or telephonic apparatus become towers and can cover miles of territory in damaged or wrecked in the field or elsea very short time." where when important matters are de-

"It should be pushed. It is a fine thing." pendant upon a perfect communication becontinued Secretary Taft, who manifested tween the head of the army and his subora deep interest in the experiments.

dinates in the field. The recruit is also An interesting fact connected with the taught how to avail himself of the simwireless telegraph installations at Omaha plest resources for telegraphy, and how is its recent development, in which the to utilize every object possible for the course of instruction at the Fort Omaha continuation of electrical communication in signal station has figured largely. One of any emergency. the most efficient officers of the army, Captain Leonard D. Wildman, formerly

stationed at Fort Omaha and chief signal

Practice Goes On Always.

While the big 176-foot wireless tower

# Quaint Features of Life

### Carried Wildest Nine Miles.



however, his catship had to be transported fire crackers and the 55,000,000 tin horns Taking an ordinary phosphate sack readiness for the glorious celebration. Harshbarger fitted a hoop constructed Three cheers for independence! from a sapling in the mouth and fastened it in the forks of a small tree. Then with a pole he picked up cat, trap and all and toward it into the sack. Throwing the sack over his shoulder, ho carried the cat nine miles, stopping twice en

had bitten and scratched its way through the others. The cat died during the night, Harshbarger will apply for the bounty on the pelt.

route to obtain new sacks, as the animal

Seventh Son Goes Up.

Frederick Laplante of Fall River, Mass., who claims to be the seventh son of a seventh son, and possessed of the healing power, failed to overcome Judge McDonough's skepticism when arraigned on a charge of obtaining \$2.04 in fees from two patients. He assured his dupes that he would pray for them and have them cured in seven days.

In passing sentence for a year's imprison ment the judge expressed his strong bellef in the afficacy of prayer, and promised to secure the release of the prisoner at the exhad recovered from their maindies.

# Coming of the Glorious Fourth.

Included in the cargo of a British steamer that arrived at Boston from Hong Kong. says the Providence Journal, were 400,000,000 Chinese fire crackers intended for the multicolored panorama was spread out be- he used to tell a story on this bead. Fourth of July trade. By this coming of fore them. s small partial supply for the approaching was as sudden as Muir could desire; but demand by patriotic Americana we may be it was this: reminded that the Fourth of July is, in

declared war to be, and that the holiday HILE trapping on the Black Log this year is likely to be as uproarious as mountains of Pennsylvania the most ardent patriotism might desire. Moses Harshbarger of Matta- Of course, this is only a slight proportion wana found a large wildcat of the total that will be required for the caught by the hind log. To necessary amount of noise on the festive bounty on the scalp, occasion, but by June 1 the other 900,000,000 will be in stock, and everything will be in

# Corncob Like Human Hand.

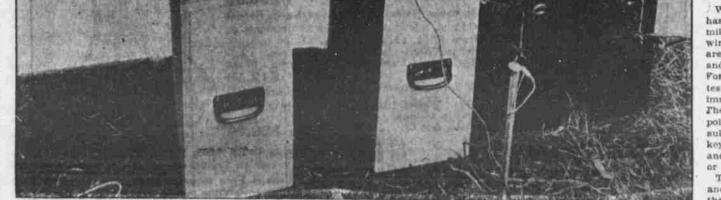
A corncob having the shape and lines of the human hand was brought to Marysville, O., by O. N. White, a contractor, of Dover township. White, while out feeding his chickens, came across the curios-In shelling an ear of corn he found tty. the cob an effigy of a human hand. Beginning with the stock end as the elbow. the cob gradually enlarged as the human muscles do and then tapered into a graceful wrist. The wrist joints are plainly discernible, and the hand, with its well shaped thumb and four fingers, its holflattened paim, all physically perfect. White had shelled almost all of the corn from the cob when he made his disthe more natural in its representation of a handful of a golden grain.

## Bostonian Appreciation.

Dr. David Starr Jordan told a story on his last Brooklyn visit of John Muir lead- delphia scientist, "had a most learned and about that," replied the black; "my grandpiration of seven days if the persons treated ing a cultured Bostonian up the mountains a most lucid mind. He could not merely father helped to eat Captain Cook."-Reythat overlook the Yosemite Valley. Muir master a question-he could lay it so said that he led the Bostonian along de- clearly before you that you. In a short vious ways, so that the great, splendid while, became master of it, too. valley would burst all on a audden upon his astonished oyes.

Finally, at a turn of the road, the vast. The Bostonian's ejaculation "Well, now, how can we get across that

its small way, all that General Sherman damn gap?"-New York Times.



# HOW THE WIRELESS APPARATUS IS PREPARED FOR THE FIELD SERVICE.

# in process of construction at Fort Omaha, work in the minimum of time.

it does not follow that there is any lapse The method of operation of field and be received from other stations not in diin the practice of wireless telegraphy about general wireless telegraphy is somewhat rect tune with a particular station. The the fort. On the contrary, the work is different from the regular telegraph sys- expert operator can readily detect the mesgoing on constantly by means of the field tem, but resembles it in the main. A scage received from other stations not in and portable systems of wireless. Suc- knowledge of general telegraphy is essen- tune with his own, and by a knowledge of cessful experiments have been made by the tial in the successful manipulation of wire- the telegraphic code of the foreign sender is It is believed by many of the more ardent are now receiving salaries from the great field force between Fort Omaha and Flor- less telegraphy. The knowledge of the thus enabled to get hold of some informaence and across the Missouri river in Morse dot and dash telegram alphabet is thon not intended for his particular station. Iowa, repeatedly, for graduated distances requisite for the operator. The receiving anywhere from five to 'twenty miles, in by wireless is somewhat akin to telephony. both sending and receiving wireless mes- The apparatus is equipped with receiving

Detachments are constantly going 'phones, as well as with transmission keys through the top arms of the tower, and out at increasing distances to test the ef- and sounding keys; the key for the sender these signals are thus disseminated from ficiency of the field wireless apparatus, of the message and the wireless 'phone the top of the individual tower not in an These are also tested at the fort by tem- for the receiver. porary field towers, so constructed that The two intercommunicating stations by every direction from the tower, so that

speak, indentically, though measages can

### Character of the Waves

The wireless message is transmitted

lieved that in a short time Fort Omaha The Fort Omaha school is constantly advocates of wireless telegraph, that the corporations that exceed the salaries of system is merely in its infancy, and that the army officers under whom they reits development within the next few years ceived their telegraphic training.

individual or isolated line tangent, but in they can be placed in position for active the wireless system must be attuned, so to but one of the many hundreds and thou-

known; but an Englishman stopped at the

ghost had not been explained.

" 'Landlord,' he said, 'tell me, is not my ""Why, yes,' said the landlord, 'Didn't

you know?' " Of course, I did not know! What do

Well, gents, you're both wrong about you mean, sir, by putting me in a haunted " 'But the old fellow is quite harmless, works like this. When we want to stop said the landlord reassuringly.

"The old fellow? "'Yes,' said the landlord. "The ghost.

He built it up, you know, and died, and -New

# Vanquishing a Bully.

challenge was no doubt one which was employed on a certain occasion by a French statesman against Mr. Victor Noir, an illiterate bully of the press in the time of the second empire. The statesman received from Nuir, for no real reason whatever, a challenge to fight a duel.

Noir was at densely ignorant man, and "Your place, air, will never be filled," a nearly every word in the challenge was reporter said to Heinrich Conrold, the re- misspelled. The statesman responded with tiring director of the Metropolitan opera the following: eyea

Mr. Conreld shook his head and smiled. "There was a ghost," he said, "a ghost in got into an argument over the action of Bielitz, my native Bielitz. I will tell you book, and you are a dead man."

Gossip About Noted People

had to reprimand an enlisted man of great Bok, Editor Extraordinary. ALWAYS makes me smile," physical strength and reputation as a said Edward W. Bok, editor-in- bully. Afterward this man went among extraordinary to the American his mates declaring that the lleutenant people, to Ada Patterson, as would not have dared to be so severe if she reports it in the Now he had not had on his uniform for protec-Broadway for April, "when thon. Chancing to hear this remark, Emory some woman as reader of our magazine, applied for shore leave, donned civilian writes me and asks: "What do you know clothes, followed the bully off the ship into about the needs, the life or the struggles a side street and licked him good and eler says that before old "Wrong, wrong!' should the second. inn one night in the season, and to him the of poor people-you, who were born with plenty. The admiral is known through the a silver spoon in your mouth?" Bless her service as "Prince Bill," a nickname he "So the next morning the Englishman heart, she little knows that I have been got in the days when he was much of a on practically nothing; to stealthily leave ment. Even now he dresses in extrems the house at night, go to the lots and pick fashion when on shore. On deck he is the up odd pieces of wood because we had not spick-and-span man of the fleet. the 4 cents to buy a bundle of kindling;

to pick up odd bits of coal; to sift the ashes until my fingers bled; to get up before dawn and make the fire: to go around afraid to stoop because of the patches in my clothes. Know it? Oh, yes, I know what it is to be poor. "And it was fine, I tell you," said this

man unexpectedly. "Fine? You mean poverty?" I asked. "I do." he said emphatically. "The finest

thing that ever happened to me, the finest thing that ever happened to any young fellow is to be poor. There is no greater stimulant than poverty-not as a condition in which to stay, but as a condition to work out of."

Edward Hok is 44 years of age, and looks younger despite the silver tufts of hair above his cars. The dominant note in his facial harmony is power. His nose, well shaped and large, is the sort whose owners always cleave their way through difficulties. His lips are firm but kindly. His chin is strong enough for balance and not large enough for unwarrantable pugnacity. His broad forehead, high and full, hangs domelike over a pair of clear, far-seeing

Fighting Bob's Mate.

"Certainly, governor," said the judge, always one of the most accommodating and obliging of public men. By the way, Sam, the elevator is finlahed and you can come up to my offica without having to walk up the steps." Judge Witt got back on the bench and

tings court.

ordered a short receas of the court. Then hurried over to see the governor. He made known his presence and he was ushered into the governor's office. "Hello, Sam," said the governor. "Glad

General Lee's Bumor.

Several years ago, relates the Washing-

ton Herald, when the elevator was first put

in the capitol at Richmond, an incident

occurred showing the sense of humor of

the then General Fits Lee. The general

was of stout build and he wanted to see

how the machine would work. He was a

close friend of Judge B. Witt of the Hus-

Judge Witt was holding court the day the

elevator was completed and he was called

"Sam," said the governor, "I want to

see you for a moment and want you to

to the telephone by Governor Lee.

ne to the office at once."

to see you. Come up on the elevator?" "I did," replied the judge.

Read Admiral William H. Emory, in "That's all right, then," remarked the command of the second division of the governor. "I am just going to dinner and battle fleet on its cruise to the Pacific, is I did not care to try that elevator till I was equally as picturesque as "Bob" Evans. On certain it would hold you. That is all, one occasion when he was a lieutenant he Sam; thank you,"

when a man entered, nodded to on the train's arrival in Philadelphia, they came down to his breakfast pale, bloodshot through it all, I know what it is to live society man and took delight in fine ratthe owner of the place, who agreed to submit the matter for settlement and irritable. "The engineer, leaning condescendingly Presently he addressed the owner of the from the window of his cab. listened with room haunted?

an attentive frown to the two travelers' statements of their argument. Then he smiled, shook his head, and said;

the workin' of the vacuum brake. Yet it's room?" the Englishman stormed. very simple and easy to understand. It

then we fill the pipe with vacuum."-The old fellow who built up the business.

now he can't rest easy because it goes on T. B. Curran, formerly a member of Paras well as ever it did without him?" liament, said that a South sea islander York Sun.

A better method of meeting a dueling one of his hearers said to him: "What do you know about it? You're not an Englishman. You haven't a drop of English blood in your veins." "Don't you be so sure

"Dear Sir: You have called me out with-

out any good reason; I have, therefore, the choice of weapons. I choose the spelling The dupl was never fought .- London Tit-

"The ghost haunted the inn. Nobody Bits.

Gleanings from the Story Teller's Pack "Tall Goes with the Hide." the train,' suid the first commercial tray- minded him, for in Silesia he was well

Man's Place in the World.

house of New York.

of him:

NEW YORK commercial trav- eler. Georgia "went dry" he was one 'It's the output of the exhaustion." day in a saloon in that state "So they wrangled for an hour, and then,

was also the bartender, seated himself and to the engineer. meditated.

saloon. "Reckon yo' wanter sell out, Bill?" For some ten minutes Bill continued his occupation of filling pint flasks from a jug.

Then he looked up. 'Mout." he admitted. "How much-cash?" the other inquired. Bill filled another dozen flasks.

"How much you give for the whole shebang-buildin', stock, good will, an' all?"

"What about the fixtures?" Bill was

covery, but he had left the kernels in the outfit," Bill assured him; "fo'teen colonels, palm of the hand, making the freak all ten judges, nine majors, an' a right smart sprinklin' of hoss doctors."-Harper's praising up the British constitution when Weekly.

who could not explain a subject perfectly did not know that subject perfectly. And "He said two commercial travelers, on the way from Reading to Philadelphia,

the vacuum brake. 'It's the inflation of the tube that stops

How the Airbrake Works. nolda' Newspaper.

Prof. Hellprin claimed that they

the train we just turn this here tap and Philadelphia Press. he inquired, cautiously. Some of His Meat.

asked. "Oh, they go along with the rest of the whom a traveler had brought home with

him as a servant, in a local tavern was

# "The late Angelo Hellprin," said a Phila-