## WATER WASTE AND LABOR CAPACITY

## By Franklin K. Lane

basis for our material progress. productive abilities of our 100,000. people are increased by the use of ably 125,000,000 horse power of menanical energy, not including animal ver furnished by 30,000,000 horses mules. Most of the mechanical ersy is used in the form of electrical When applied to industrial rrent one electrical horse power does e work of ten men without tiring. hat is, one electrical horse power. tinuously operated, does as much as 30 men working in eight-hour

Conservation of human labor goe ind in hand with utilitization of meanical energy, and utilization of hat form of energy most cheaply and ave harnessed for our utilities and western empire.

istrial needs something like 6.000 .-I horse power of water. This means, an industrial era of such possibilities terms of human energy, that as have been almost undreamed of. eams which, before that time, flowed out to the labor of 180,000,000 men vorking eight nours a day. This deopment alone represents three times productive capacity of the unaided hand labor of our adult population. This accomplishment' stands for rea progress, but, as compared with out

stbillties it is not such progress s we should have obtained. Although are utilizing today 6,000,000 horse wer of water, we are annually, daily reglecting and wasting ten times that nount, largely because of our inaplicable laws, since most of the water wers not in use are under govern ent control, and the present laws do

of adequately make provision for fullest development and use. here is in non-use in the l'nited tates enough water power to equal f harnessed to the wheels of industry. ie daily labor of 1,800,000,000 men, of times our present adult population We are depleting our fuel supply in he manufacturing sections of the east nd middle west. far west re mountains of undeveloped raw materials adjacent to unused water now s whose development would mean e establishment of great new industries in new manufacturing centers. We are robbing our farm lands of fertility and failing to realize the utost of our agricultural opportuniies because of our dependence upon foreign sources of high priced suplies for chemical plant foods or ferilizers, while mountains or phosphate tock, lime and lignite in the west wait only the magic touch of atmosheric nltrogen extracted and fixed with the aid of cheap hydro-electricity to furnish a low priced and plentiful

supply of fertilizing elements. Millions of acres of lands rich in plant foods lie arid and waste in the western country which can be conwirted into fertile and productive arms, gardens and orchards merely y pumping into them the waters of he streams flowing through them. This miracle of making the desert loom awaits for accomplishment only the laws which will permit capital and interprise to engage in the harnessing sump themselves onto the thirsty soll. To conserve these vast natural re-

E ARE Tiving today in the dawn | This preparation, in its best sense. of an age in which power is the involves the fullest use and coordination of all the natural resources and industrial attainments and activities of the nation. There is no good reason why the United States, with its wealth of resources, its leadership in science and invention and its peerage of labor, brains and democratic ideals. should be dependent upon any other nation or country for any of the things necessary to either the fullest enjoyment of peace or the most complete preparedness for undesired conflict. More than 40 per cent of the potential water power of the United States lles in the comparatively narrow strip

ounded by the Cascade mountains and Sierras in the east, the Pacific ocean in the west. Canada in the north, and Mexico in the south. Some of these water powers, now unused, are among mat wastefully developed accom- the cheapest in the world. Long dislishes the maximum in freeing man fance, high voltage transmission has from muscular toil and increasing his almost annihilated distance in making productivity. In the last decade we hydro-electricity available in this great

Development will open to the west The fuels available include natural waste are now doing work equiva- gas, oil, lignite and coal. The coal, reduced to coke, offers raw material for the production, by electric smelting processes, of the carbide extensiveused for illuminating purposes. Here at hand are great deposits of limestone that will furnish the lime required to form calcium carbide used the fixation of nitrogen and the production of ammonia. At hand, also, mountains of phosphate rock awaiting the installation of appliances to free its content of phosphoric acid and combine it with aumonia as a fertilizing agency at less cost than any known

> Sodium sulphate, sodium carbonate and sodium chloride are here, the latter offering material for electrochemical production of soaps, bleaching powder, etc., in time of peace and for the making in wartime of the deadly chlorine gas now devastating the trenches of European battle fields, Iron deposits are here in abundance. which, with fluxing and reducing materials at hand and cheap hydro-elec tric power as the agency of reduction, may make the Pacific coast a competitor with the Ohio valley the production of special grades of plg fron and the manufacture in electrica furnaces of high grade steels. Also at hand are the materials for the manufacture of such steel alloys as ferromanganese, ferrochrome, ferrosilicon ferrotungsten, ferromolybdenum and There are rare metals-bariothers. um in the form of sulphate and carbon-IL ate, zinc and copper, gold and silverall awaiting the magical touch of the But father, who had gone into busicheap electrical potentiality in our wasted stream flow. As a by-product, and not an unim-

portant one, of the atmospheric nitrogen plants, we can produce cyanide, or something. giving new life and impetus to the mining and production of precious metals from low grade ores. In fact, this material either as a by-product from metallic sodium produced with the cheap power available, should make the Pacific coast the logical distributing center for cyanide used in gold extraction. Our Alaskan copper, now shipped as far away as New Jersey for smelting, may of these streams so that they can profitably reduced and manufactured about to begin, by electrical processes, on the Pacific coast, and the same hydro-electric the greatest attainment power which will bring these indus-



"As soon as I make up my mind I'll write. Oh, no. Tell you what, I'll wireless."

By Jack Lait.

S firm. Smyth was just Smyth- invited along and had accepted. ling that she was: John or Jacob or James-it didn't matter. He was Smyth, and Smyth. There had never been any male other. less than 20, a combination peony and But Furmay was Jr. He not only was the junior partner, he was the junior Furmay. D. E. Furmay. Don E Furmay was his full name. What Olive, the "E" stood for doesn't count.

had been his father's name. ruise or on any cruise except one Whether ness with Smyth many years ago, had in the justly overwritten parque of retired, and the young Don sonned into the firm, which manufactured telescopes, or pumping machinery or glue any angle. Old man Furmay proposed to spend

in the Smyth family that ended specthe residue of his life span in pleasure, recreation and laziness. He was ulation. incredibly wealthy, so he bought a The night before the good vacht Mermaid was to cast off, there was a deep, sea going yacht. It came F. O. party aboard her nice, new upper B., somewhere in Maine, arriving at

private landing near New York on deck, where there was a parlor, a the flossy side of the Hudson. Old man Furmay liked his yacht much. And he announced that a cruise of a few lands and a sea or two was instruments.

Furmay and Smyth sat on the ve- not rude. randa of the Furmay summer looking out at the yacht, and Furmay

Don had not been let in, somehow. I She was voiceless for what seemed a in the first announcement, on the long time. Then she took Don's hand (Copyright, 1916, by J. Keeley.) CMYTH & FURMAY was a grand old fact that Smyth's family had been and said to him like the honest dar-Smyth's family consisted of an elderly Mrs. Smyth, who suffered terribly from colds, and Olive Smyth.

> violet, brunette, slender, dreamy, opalescent. So this guessing contest dies young-Don's interest was in of my whole heart-a gushing love, He didn't want Olive to go on the complacent giving in. not a calm. have such love for you I do not know. I have never

> for months wasn't to his taste from ask myself. But now that you have But he was helpless. Her been so dear and lovable and have father had said she was to go, and asked me, I must ask myself." "Sweet girl," said Don. "Ask your-

self. I'll help you. And I'll coach you on an answer to yourself and then

set of amazing cabins, a ballroom, or to you that I should be hasty. We a smoking lounge and other architec- wouldn't be married, anyway, before The breeze blew soft if I feel lonesome and such-if I miss and swishy. The moon was ruddy but you-you know.

Don bit his lips, rubbed his palms

ushing at him all day long. They for the message-the wireless. And the second day out it came.

And here was what it said: "7-8, 2-1-4-5." Don looked twice. What in the

name of How Old is Ann did it mean? He looked again and some more. It was from Olive, certainly, The

message had been sent from the Mermaid. She had promised him her answer. But there had been no code agreed on. And he knew no code that might have been understood between

He couldn't make head or foot of of the plan has been prepared by Dr. their literatures are less wonderful He Abraham Flexner, assistant secretary than they are reputed to be, but be He added up the figures, there was no such solution to the board. intended. But he added them up anyway. They totaled 27. That meant theoretical studies in modern languages sumption. A positive case can be made

nothing. He could see that it con- and the bulk of history and of pure out for neither. The literary argument tained two words-the first one of two mathematics in the way they are now fails because stumbling and blunderletters and the second of four. What could that combination be?

It couldn't he "Yes, Don." could it? It as useless and cumbersome. might be "No, dear." But if it were "no," why the "dear?" language? But.that "no" had two let-ters scared him. bon knew our old schoolboy code tics, civics." These studies would be difficult or impossible to understand a

where each letter in the alphabet is forwarded with the use of "the access- Latin document encountered in, say, a numbered, running consecutively from lible world" as a laboratory to train is to 26, so that A is 1, B is 2, and children "with an eye to the realities in enormously less time by o forth until Y is 26 and Z is 26. of life and existence." The features the study until the student so forth until Y is 26 and Z is 26.

read the message with the key. He in New York, for instance, would em-got: "GH BADE." can learn more Latin in a few months poly, would be the harbor, the Metro-politan museum the public library the GH BADE."

urned the code upside down and read tems, lectures, concerts, plays. his aerogram and came out with this: TS YZWY."

Maybe the letters were initials of a series of words. Probably not. He tried the first, "GH BADE." The D might stand for Don. The rest might stand industrial social and nontrived and to reason, to under-

might stand for Don. The rest might stand for anything. Ditto when re-versed. Don called up the wireless office and inquired whether there were any official code—any established code official code—any established code—strongly realistic emphasis, will un-any code at all. They had two or three codes. But the message didn't mestic role and family function. of them. They suggested that Not only do American children as a est and appreciation-rather than to making A 1, B 2, and-Don class fail to gain either knowledge or fashion makers of music and art. fit any of them. They suggested that

hung up. He called in Killifer. Killifer was a shipping clerk. He ought to know something about codes. Killifer puck-ered his forehead and locked on the solution of the solution of the point of the solution of the sol

something about codes. Killifer puck-ered his forehead and looked at it sideways up and down bottom up sideways, up and down, bottom up, tege before students begin professional an eye to the rearries world is the carse of first and, after deep reflection, said it was probably two words, economy of two or three years is urg. Us imagine a modern school located in

The air waves were tricky and com-did I less than like you very awfily. I never saw any other man that I liked nearly as well. But when you talk of marriage, that means more than liking. To me it means the love that age general opportunities auto-than age general opportunities auto-than age criticising it would have to create appearatus and the ducation which we are criticising. The education which we are criticising it would have to create apparatus and insane.

ground his teeth and paced up and tradition can be assigned. of day you might expect he would.

It was almost time to go home bout and to understand the world What for? No one was home except lives in. both the physical world and the servants. He could bite his under the social world. Mr. Flexner would place the burden lip just as well in the office. And, all jesting aside, he had neglected of proof upon the subject. If the sublot of work which, wireless or no jec' serves a purpose, it is eligible to Marconigram, had to be attended the curriculum, he says, otherwise not. to. So he fiercely grabbed a gob of He continues: papers and started plowing through Modern education will include noththem, writing "O. K. D. E. F." on ing simply because tradition recom-each as passed. There were some mends it or because its inutility has conclusively established. not been questions of prices. He had to set proceeds in precisely the opposite way it includes nothing for which an afsome figures In the affairs of Smyth & Furmay numeral figures were not used. There As has already been intimated, this itons was a house code. And it was all in method of approach would probably reschool the one name that was on Don's sult in greatly reducing the time alheart-Olive Smyth, Observe the name. There are ten tained. tained. If, for example only so much test and evaluate cultically the funda-arithmetic is taught as people actually mental propositions on which it is it-have occasion to use, the subject will shrink to modest proportions; and if this reduced amount is taught so as to serve real purposes, the teachers of science, industry and domestic econ-omy will do much of it incidentally. The same policy may be employed in dealing with algebra and geometry, others who will go out into service. letters in it. No letter is duplicated. Almost every commercial house has some such similar price making system. Olive was a baby when the system was introduced by her father. Taking the letters, left to right, O was 1, L 2, I 3, V 4, E 5, S 6, M was 1, L 2, I 3, V 4, E 5, S 6, M 7. Y 8, T 9, H 10. Don was marking in some prices. He had the familiar translations at his fingers' ends. He never pondered pend altogether on what is needed, be a semilary translation of the same policy may be employed in training of peachers, first, its own, then the same policy may be employed in the same policy in the same Y 8, T 9, H 10. He had the familiar translations at his fingers' ends. He never pondered over the code. He always thought by it when he thought prices. But to-night anything that had to do with code got him. And in a minute it flashed on him. Olive had doubled back. She had presumed that he was so familiar with

## rushing at him all day long. They had lost their punch. He was waiting for the message—the wireless. **MODERN SCHOOL**

in - through a few patches of Latin classics do not establish a contact with Latin literature. Nor does present

course in history. If practical mastery

ctant effort in youth

stitute an argument

desired, more Latin can be learned

Finally, the

TSTABLISHMENT of a "modern also the courage not to read obsolete school," in which the courses of and uncongenial classics, simply be-study would not be dictated by cause tradition has made this sort of tradition, is being considered by the acquaintance a kind of good form. general education board, founded by contained in the curriculum of the mod-John D. Rockefeller, and an outline ern school - not, of course, because

cause their present position in the Formal grammar, ancient languages,

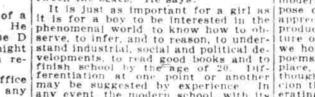
presented are the subjects Dr. Flex- inner would remove from the curriculum classics

"Aside from reading, writing, spell-ing and figuring," he writes, "the cir-bosos Mature students who studied And in what ing and figuring," he writes, "the cur-

He wrote it out laborlously and then of this accessible world which a school language or wants it. At that stage ne

politan museum, the public library, the relu That had no rhyme or sense. Ah, maybe she had reversed the alphabet, making Z 1 and A 26. So he weather bureau, the transportation sys-

than for the study of Latin. Literature is to be taucht in the Mr. Flexner makes no distinction be-



one with two letters and one with— Don ordered him back to the shipping department. A whole day went by. Don tried to reach the Mermaid with his S. O. S. to relieve his doubt and suspense.

Don took the cryptic numerals is overwhelmingly formal and tradi-home with him. He got out a book on such things. He read a mystery story by Robert Louis Stevenson He in the justiv overwritten parque of I do not know. I have never let my-matrimony upon the high sea of bliss, self ask myself. I never knew whether etc. The idea of having her sail away you would ask me to, so I could not closed his eyes and tried to think. valued for centuries. "Training the ern school would thus at the start be No go. Even as a boy he had always mind" in the sense in which the claim at a great disadvantage as compared been a rummy at solving puzzles. Is made for algebra or ancient lan- with established schools that seek

is made for algebra or ancient lan-guages, is an assumption none too well gradual improvement through read-The night was sleepless. Business went to the dogs for the ficient offset to present and future vantage—that it would have uselessness. A man educated in the modern sense will forego the some-himself in his private office and modern sense will forego the some-we go on teaching this or the some-

you can transmit it to me." "No, Don," said she. "I must wait till I am alone. It isn't fair to me or to you that I should be hasty. We instead, his still not infrequently press a since any solution can be assigned. Instead, his still not intreductive wouldn't be married, anyway, before tural equipments of a millionaire's tomorrow, and after tomorrow I shall instruments. The breeze blew soft if I feel lonesome and such if I miss lar time and—well, he put in the kind of day you might expect he would. It was almost time to go home

which the statesmanship of our day can supply itself. To be truly prepared for war is to be fully prepared for peace

tries into existence will 'afford the said to his old companion in comenergy for cheapened transportation merce; of their products over electrified rail

copious amount of water means

lime

It acts on the swol-

cloves, cardamons, tobacco and the like.

Now the catechu gum is always a first

len throat and furred tongue and in-

flamed gums. In conjunction with

lime paste, it acts as an astringent

and an antiseptic, stops bleeding gums

teeth, saliva, tongue,

paste.

mouth

It is really

of tobacco.

A very common tooth

ingredients - namely,

Then comes the turn

class astringent.

(gume,

throat, etc.)

ways. **HOW HINDU CARES** FOR HIS MOUTH

## By Dinshah Dadabhai Dordi.

THY should such a dire disease as tree is very useful because its bark, pyorrhoea alveolaris be peculiar leaves and oil are used as febrifuges.)

to the "civilized" people only? As disinfectants its bark, leaves Why is it not common in India, exand root are burned and the smoke is cept perhaps among the Europeans allowed to spread in the surrounding and Parsees, who presume to pass atmosphere, and thus purification of "themselves as the most educated peoair is aimed at. Thus the act of washple? I will draw a superficial sketch ing the mouth, throat and the nose of the oriental people in the observance of their daily life; perhaps it to thoroughly cleanse these organs will serve to prevent, to some extent, from the decaying particles and sedithe spread of this disease. In any ment accumulated there during the night. This washing process refreshes event the American people can find those organs and prepares them afresh in it food for thought.

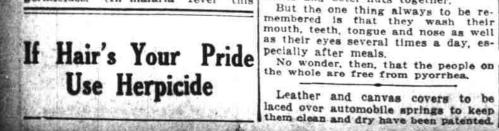
to undertake the whole day's function. When the orthodox oriental rises in the early morning he does not drink a the betel nut and leaf. Such celleacies cup of hot coffee without washing his are used sometimes before oreakfast, mouth and cleansing his teeth. Frebut mostly after taking food. Now quently he uses a twig of babul or the betel nut is again an astringent. acacia tree or even a nimb tree's tenwhich encourages the flow of saliva, der twig for a toothbrush. First he so a quantity of water accumulates chews one of the ends of the twig and in the mouth. This nut also cleanses With this im- the gums and teeth. Then we come to forms it into a brush. provised brush he cleanses each and the betel nut. It is a fibrous subevery tooth and washes out the dirty stance which cleanses the sediment acsediment and gargles with clean water. cumulated on the tongue generally. It This done, he washes thoroughly the is also a strong carminative and disame brush and again employs it to gestive. scrape his tongue. Leaving that, we come to the other

It takes him about five to ten min-utes to cleanse. Then again he gargles the whole mouth with the tongue. But this final task is to gargle me In order to carry out throat. end he thrusts his fore and middle fingers right into the pharynx, and thus tries to throw out all the phlegm. This done, he goes straight to his and disinfects the whole There he again cleanses his bath. mouth, nose and eyes, with frequent draughts of warm water. This being

Then cardamons and cloves come over, many persons usually take a cup into requisition; these act as carminaof hot tea or coffee. But those who tives, deodorants for purifiers of foul young. do not make use of such drinks enjoy breath) and disinfectants. And over themselves by chewing betel nut, betel and above these characteristics the ing for a living and he is being cently one was erected several thouleaves, cardahons, cloves and the like. latter (cloves) acts as a powerful anti-At the same time they make particu- septic. It soothes pains of inflamed lar use of catechu, lime paste and gums and decayed teeth. sometimes tobacco. a powerful and at the same time aro-Now, what is the significance of matic germicide.

this daily practice of chewing panssupari (betal leaf and nut)? How and Those who cannot take alcoholic ened life. why this simple dally practice is su- drinks, oplum, etc. require some stimperior to many antiseptic tooth pow- ulant. ders and brushes of the civilized naa suitable agent to appease their crav- have to eat, drink and be merry with tions ought to be made clear. As I ings. did in a recent letter to the New York the betel leaf assert that it helps not advancing age usually har a woman Medical Journal, let us refer to the only the digestion but it prevents gum from participation in gayety of this

boils and acts as a powerful germicide. sort. A babul tree is the producer of the gum acacia. Its bark is extensively Some native physicians recommend a tooth powder consisting of the comused for tanning purposes. To brush mon salt, seeds of mucuna pruriens. the teeth early in the morning with its twig means, then, to make the cummin seeds and tobacco in suitable propositions. This is a fine recipe, exmouth and gums astringent. Again, to use a nimb twig means to disinfect cept perhaps it blackens the teeth. It the whole mouth, because nimb tree kills the germs of the teeth and fixes leaves, bark, roots and seeds are exthe loose teeth. tensively used as disinfectants and powder is prepared by burning almond shells and betel nuts together. germicides. (In malaria fever this



sition

may

abouts

the boys.

In tobacco such people find there is no let-up in the chances they

Those who chew tobacco with the boys and girls, while the signs of

"Do you think the kid can run the hand in his, sat beside her. works alone

their lives with an endowment

men die younger because they live

harder after the age of 50 or there-

wear thin clothes and expose their

necks and shoulders and ankles to the

When they are young they take

However, they do these things when

vance they lead a quieter life, with

Men, on the other hand, says this

actuary, always act as if they were

pressed more closely everywhere by

much faster than their brains, and no

The result is that men's bodies age

Then, too, as their years advance

Statistics show that the greater

they are young. As their years ad- may be,

When mother's life work is

pay for their good time with short- operating.

of liberties with their health.

wintry winds without a shiver.

less and less social gayety.

man ever would take

Women notoriously take all sorts

They had been friends for many "Why should he" asked Smyth, oully years. They had gone to schools who was likewise rich enough to retogether. Don had never thought of tire, but was not of a retiring dispoany other girl more than maybe once.

Olive let him take her to picnics in "I was thinking of taking you and childhood, proms in adolescence and family along on the cruise," said Furformal functions in the post-debut maturity of youth at its most adorable

Now, a sea voyage, in search of stage. In the Smyth-Furmay walk Pleasure Island is an attractive propoof life young folks do not "go tosition to anybody. It struck Smyth gether." But Don and Olive had gone in a very weak spot. He hemmed and together nevertheless. Everybody had coughed and said he didn't see it that they would marry why not.

Still the question had never been Young Don, when he heard of it. directly put and no answer had been was for it. He loved the idea of directly hinted. being left alone in charge of the

Tonight, with the wonderful girl big, plant, with full power, unhambeside him, the river calm and the pered to kick out a few of the old breeze, oh, so fondling: fogy methods which had earned a girl about to sail away, far away, for million dollars and to install a a long time, a very long time, weeks few of his own which had occurred maybe-it had to come! to him while he was at college.

They

It was not unexpected. Olive didn't There being no dissenting voice, the ayes had it, and the plans started.

had ended a together nervously and refrained from dance of delirious delight. He led doing the two things on earth he her out to a hammock where he sat wanted to do most at the momenther, and she, with a pressure of her kiss Olive and light a cigaret.

most of the non-skidding schemes are. Lewis says, will pass through any

"Well, honey-when am I to know And how?" he pleaded. "As soon as I make up my mind will write-oh, no. Tell you what.

It will be so romantic, I'll wireless you! And that is where it remained,

Next day the Mermaid sailed. Don was at the landing with not enough flowers to inaugurate an alderman. just enough for a corsage bouquet He saw the yacht pull away, his father and mother waving handkerchiefs from the back rail. Olive way-

ing her hand to him and he bereaved, bewildered, bewitched and burning. To add another alliterative quality

he was busy. He had a great institution on his with the hands and no little responsibility. But he found himself wandering at his He sat there, but his spirit was desk. on the Mermaid, out on a gentle sea

under an amiable moon, in a sociable even say that it was. It couldn't have breeze, with Olive, been. But her answer did not come. Telegrams from everywhere came

**POPULAR SCIENCE BRIEFS** 

pecially if they have insured genius. It is not an improved tire, as generate hydrogen gas, which, Mr.

Effect of Altitude.

The curious fact has been demon-

strated that high altitudes apparently

have a marked effect on the power

sand feet above sea level, but upon

TOMEN live longer than men, es- been recently patented by a Missouri nected with a storage battery.

which has been defended. Hirst, on the ground that it furnishes a valuable mental discipline: second, on the ground that it assists the correct use of language. It is passing strange how resumed that he was so familiar with the figures as indicated by the letters

of her name that he could read letters from the figures. many ill-disciplined minds there a among those who have spent years b

He spelled it out in a moment: "7-8 2-1-4-5'-"My love."

Don danced. He hugged the adding machine He rubbed the bruise where risk to he had kicked his desk, he determined he would raise the janitor's pay. "My love!" Whew! That was something

called up and said that its senders had found the Mermaid's receivers. Was there anything?

Was there? Wait a minute. If Olive had wired him in code in the exuberance of her heart or bethe "pill" on the ground must be given on earth except him to know what

position of the thumbs and swished answer in the same ten figures. It through the air while the eye is kept couldn't be done. Try it yourself. See what you can extract from "Olive Smyth" that he could send back to fit the occasion. The words he picked out in addition to hers, were: "Let, me, this some." He overlooked two which will be found at the tail of this narrative, showing that Olive knew her own name better than he knew it.

Don couldn't squeeze any sort of a sentiment out of the ten letter limit. So he thought of his own name. Don E. Furmay. Hurrah! His name was

just as applicable as hers. Ten letters, no two alike. And in his name he found plenty. So he wirelessed her Olive Smyth, aboard yacht 'Miss Mermaid.

"Take the key in the signature, read and answer: ···8-9-7-7-10 8-4, 1-2 1-4-9-

"Don E. Furmay." Olive got the flying answer. And, since her key came right with her precious jewel of a message, she unlocked the thin mystery and she fig-ured out that the figures read:

"Marry me, do dear." Whereupon she smiled and gave this to the operator:

-5-6, 6-3-2-2-8." And when Don got it he flew to his name and unkeyed the phrase and

"MFU UNOOM." What the-

Oh, of course. Her name, not his. And this is what he got: "Yes, silly."

t serves a nurpose that Nor will tact and insigh and enthusiasm cease to be ITTUPS. simply horause teaching method are constant ob

lects of scientific scrutiny. In education, as in other realms, the nauiring spirit will be the productly

spirit. There is an important though not very extensive body of educational literature of philosophical and inspirational character, but ther is little o quality The scientific spir beginning to creep into ele it is just nentary and secondary sc firmative case cannot now be made out progress is slow, because the cond As has already been intimated, this tions are unfavorable. The moder are sho should be a luboratory from would issue scientific studies of school lowed to mathematics, and in decidedly all kinds of concational problems — a changing the form of what is still re-laboratory, first of all, which would tained. If, for example only so much test and evaluate critically the funda

Bath and Clean Food Too Much for Him

ing mentally disciplined, now in this subject now in that. The modern subject, now in that. The modern school would not hesitate to take the Milwaukee, May 13 -- Starving because he was given wholesome food methal discipline involved in opping the study of formal grammar and wretched because the accumulated It would tentatively, at least, also risk the consequences to correct speech indirt of 20 years had been scrubbed from his body, Ferdinand Nurnberg to come hurtling through the air oif volved in the same step. For such evidence as we possess points to the 48 years old, Milwaukee's cave-man died in the house of correction, where futility of formal grammar as an aid died in the house of c to correct speaking and writing. The he had been removed.

to correct speaking and writing. The study would be introduced later, only if a real need for it were felt-and The man's stomach, accustomed t the refuse of the garbage plant, re volted at cleanly food. in such amounts and at such pe-

riods as this need clearly required. In respect to history and literature. For 20 years Numberg has lived within a few feet of the lake, but modern school would have the cour At a local never took a bath. age not to go through the form of natatorium he was scrubbed for two cause she didn't want any other soul teaching children useless facts just behours, the attendants using washing cause previous generations of children hours, the attendants usi have learned and forgotten them; and powder and scrub brushes.



New Pore Treatment - Best over the nerve centers along the Healing Preparation Known pore action is just as important as free for Inflammation or Soreness, form their duty without restraint Any Ache or Pain, Rheuma- there would be no such thing as new tism, Neuralgia or Lumbago.

T HE new treatment relieves neuminutes. Internal medicines cannot all open cuts or sores and for chron reach rheumatism of the joints and skin diseases. It is simply magic muscles. Fresh blood must be made

to circulate in and around the affected parts. The pores must be kept at work and the inflamation and poisons removed. This treatment relieves neuralgia and rheumatism when all else fails. Just rub it over the tender spots and around the acning joints. If

the trouble is long-standing, rub it

and on the bottoms of the feet. Fre blood action. If they could all per ralgia and rheumatism.

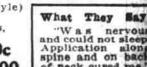
The New Pore Treatment also give quick relief in all cases of sore throad bad coughs, nasal catarrh, bronchit ralgia and rheumatism in a few and tonsilitis. Don't fail to use it

> for pimply skins and sallow comple ions. Ask for Know-Doc Pore Treatmen

What They Say! "Was nervous and could not sleep. Application along spine and on back

of neck cured me." and \$1.00

(Japanese Style) 35c, 50c



Concealing Periscopes. By painting periscope tubes with parallel stripes representing the olors of the spectrum it is reported by the artillery of the present day, is that the United States navy depart- two-thirds cotton. The raw material number of centenarians are women iment hopes to make these members

again as many old women as there enemy. It is thought that when re- becomes the base of the explosive. are old men. fracted the colors will appear as a Between 55 and 65 the deaths of white ray, practically indistinguish- make the charge for one shot from the men exceed those of women in a able at a distance.

marked degree. the insurance company In Place of Gasoline. And, as pointed out, the average woman polcyholder with an endowment policy inventor, says he can make a motor ives longer than the one who has a perform the same function as gasoline with one ounce of sulphuric acid to straight life policy. "The longevity of the endowment each gallon of water. woman undoubtedly is a question of The acid can be purchased for less

E. D. Lewis, of Elmira, N. Y., an

woman undoubtedly is a question to live than a cent an ounce. Lewis says the distance of the thunderstorm, because until the policy matures," is the way hydrogen gas generated by a battery distance of the thunderstorm, because current would show a higher test than lightning is seen instantaneously. While the sound of thunder travels of the next passing on the market.

the German 17-inch guns raw cotton.

Thunder Claps.

the time of seeing a flash of lightning and of hearing the thunder be counted

attachment for automobiles has and the other negative. These, con- ] the flash is a mile away.

The general conclusion in was reached that a gas engine loses shooter has on his gun. about 1 per cent of its indicated horse Cotton in War. power per 1000 feet of elevation. One thousand tons of cotton are

the German and Austrian cannon. Cordite, one of the explosives employed and that there are nearly a third of submarine craft invisible to an dried, and the material thus supplied

It takes 400 pounds of guncotton to Queen Elizabeth's guns or from one of

If the number of seconds between

distance of the thunderstorm, because it read:

He would equip the regular gasoline at a definite rate. An interval of A brand new idea in an anti-skid- tank with two electrodes, one positive about five seconds would indicate that

but an attachment which is placed on carburetor into the motor as effect-the hubs, and, when occasion arises, ively as gasoline. policy, which puts more of a premium on life than on death. it is thrown into action by a lever An open-air vent in the tank would This is the remarkable statement made by an insurance company which operated from the chauffeur's seat. give an outlet for too high a pressure The apparatus as placed on the end of gas has been making a study of the relaand backfire would be of the axle has a cam arrangement quenched by the water. tive longevity of the sexes. The comwhich, under normal conditions, holds pany has come to the conclusion that

the legs or blades in a position clear For the Golfer.

of the ground, but when any tendency Addressing the ball on the golf field of the car to skid is shown a move-ment of the lever turns the cam and is almost as serious a matter as ad-dressing a big meeting, for there are And just then the wireless company the blades are thrown into action and a thousand ways of going wrong and protrude beyong the periphery of the wheel, where they engage with the one lonely way of doing it according The angle of the head and ground and hold the machine steady to Hoyle. the tilt of the nose must be arrived at in its course. These blades are supwith mathématical accuracy, and after chances with their digestions that no plied with an automatic action by which they accommodate themselves that such matters as the position of to hard or soft ground, as the case

the feet with regard to each other and some attention. After that the club she was sending him he could do no must be seized with due regard to the less. So he started to figure out an

through the air while the eye is kept glued to the ball. In order to assist the golf player in taking care of all these matters a Minneapolis man, A. A. Peck, has retesting failed to give the desired cently invented a device to be worn on

the hat by which it is intended that power. An investigation followed, and the loss in power was attributed to the stunt shall be somewhat simplified matter how good they may feel they the height at which the engine was by making use of a "sight" somewhat the same manner as the sharp-

fired every day from the mouths of

is dipped into nitric acid, washed and

Guncotion can only be made from