### Geophone Aid in **Mine Disasters**

World War Has Been Perfected by Engineers.

#### EXPERIMENTS PROVE VALUE

Distance-Has Many Uses, but Its Advantage in Mine Rescue Work Most Important.

Washington .- As the result of experiments made by the bureau of mines, the geophone, a novel instrument used amid the reek and slaughter of the World war for the detection of earth and rock sounds, made in the construction of military mines and tunnels, promises to become an active movements that sometimes occur in factor in the saving of the lives of deep mines and are termed "bumps"

near Pittsburgh, blows with a sledge on the coal face were heard, by means feet, with various rooms and entries ings.

The manifest advantage of the geo intervening. On a suspended pipe line, light hammering with the knuckles was detected at a distance of 1,500 feet. Ordinary talking and singing could be detected through 150 feet of solid coal. By the use of two geo- assist in the succor of entombed men jackass. He is here seen holding his phones, one instrument to each ear, it is possible to determine the direction from which a sound is coming, and thus to locate the approximate position of the entombed miner.

Another promising use of the geophone is in the location of leaks in water pipes. By means of the instrument, it is possible to hear water circulating in the pipes of ordinary city mains situated ten to fifteen feet below the surface. Tests conducted at a busy corner in the downtown district of Pittsburgh located a leak in a water main which the water company had sought to detect for two weeks vainly, Sensitive, but Simple.

The mine geophone is sensitive, yet xtremely simple and easily portable. The instrument was invented by the French during the war to detect sapping and underground mining operations. It was developed by the United States engineers, and the instruments now used by the bureau of mines were made according to plans drawn by them, except for the introduction of different diaphragms. The geophone is essentially a small seismograph, as it embodies the same principles as the apparatus that records earthquake tremors. It really consists of a lead weight suspended between two elastic diaphragms cutting across a small airtight box. If the instrument is placed on the ground and any one is pounding or digging in the vicinity, energy is transmitted as wave motion to the earth, and the earth waves shake the geophone case. The geophone, therefore, transforms the earth wave into an air wave, which is heard by the ear as sound, and at the same time magnifies the wave so that the sound is louder than the town of Kufu, is the model of the

tact with the earth. The observations of the bureau of the growth of ages. mines indicate that the geophone be quite useful in the location of mine fires. Usually a mine fire makes enough noise, either by pled image of the great sage, of which several tens of thousands of graves. drawing air or by breaking off slate erable distance through the coal, and dinarily, Confucian temples do not coneven through the strata above. The tain an image of the sage, but a simple these parts, even the soldiers sent as distance that these sounds can be tablet before which veneration and de- escorts claiming membership in the ends a great deal on the nature of the strata above the mine, yet the sounds originating at a mine fire life size, and represents the sage seat- ited this duty for many hundreds of should be detected through 100 to 300 ed, holding in his hands the imperial years. feet of cover and through 500 to 800 tablet, or scepter, as a symbol of his

Aids Mine Engineering. Geophones supply a quick and fairly accurate method of mine surveying. If two tunnels are being brought together from any direction, the pheasants, altar vessels, water lilles, progress of the tunnels could be ob- flames of fire, rice, axes and classic

instrument Developed During served by means of the geophone and their relative positions deter-

Another application of the possibilities of the instrument in mine surveying is in the prevention of accidents in blasting through. If two tun nels are approaching each other, or are passing a short distance apart, is necessary to determine the rela-Detects Subterranean Sounds at Great tive location in order that men may be warned to keep away from the point of danger. As the sounds trans-mitted through the geophone are so characteristic, frequent observation would enable a trained observer to fol low the progress of the work in the fired.

No attempt has been made to adapt the geophone to determine the earth miners entombed as the result of fires by the miners. It is probable, however, that this instrument may be In the course of tests conducted in of use in certain parts of the anthe bureau's experimental coal mine thracite coal fields, where cave-ins nave destroyed mine working, caus-ing loss of life, surface subsidence of the geophone, at a distance of 650 and injury and destruction of build-

> phone for use in mine rescue work has led the bureau of mines to place the instrument on its mine-rescue cars, which are constantly being called to at mine fires and explosions.

Teachings of Confucius Still Re-

main the Moral Guide for Peo-

ple of Vast Domain.

ANCIENT TOMB IS NEGLECTED

nterest Directed to the Great Chinese

Sage by Dispute Among Descend-

ants Who Inherit Duty of

Caring for Shrine.

Washington .- The tomb of Confu-

ius, the mecca to which millions of

Chinese pilgrims have journeyed, is

said by dispatches to be covered with

weeds due to a dispute between de-

inherited the duty of caring for this

The burial place of the man who has

ominated Chinese thought for 25 cen-

turies is described, as it appeared

few years ago, in the following com-

munication from Charles K. Edmunds

to the National Geographic society:

"This Confucian temple, an enormous

and magnificent place, occupying with

its grounds the whole of one side of

Confucian temples found in all the

cities of China. It is almost certainly

Contains Image of Sage.

duplicates throughout the

May Be Official Home of Gotham's Mayor

"Within the main building, called

sovereignty in the realm of thought.

garments, on which the 12 imperial

emblems are embroidered, namely, sun,

moon, stars, mountains, dragons,

"He is clothed in nine different silk

shrine of the nation.

Sage's Influence

Strong in China

scendants of the great sage, who have and cattle required for the sacrifice,

there are not more than two or three When a family holds together for 2,500

votions are expressed. clan. The park is cared for by 200 at-"The statue is of wood, larger than tendants, whose families have inher-

dynasty down.

the sage.

# To Concentrate on the Sleeves We hear all sorts of rumors about | enough to run into a sort of drooping

JACKASS IS HIS MASCOT

Mai. Claude Davenport, an Ameri

can army officer stationed in Ruma

nia, has adopted as a mascot a young

characters. While nine of these wer

used for great princes, as well as em-

perors, the first three were exclusively

nperial insignia. Thus is denoted the

high rank with which Confucius has

"The temple grounds are separated

from the rest of the town by the

street that marks the site of the an-

cient village in which Confucius was

born, the actual site of the house it-

self being marked by the Duke's palace, for there is still a duke in Lu,

the seventy-seventh lineal descendant

of the sage.
"Besides the contributions from de

votees and appropriations from Peking,

estates of many acres are devoted to

the support of the temple and the sup-

ply of the great number of pigs, sheep

for no symbolism of cheap paper im

ages as substitutes for the real arti-

cle, so common elsewhere in China, is

"The duke is also in charge of the

upkeep of the great Confucian ceme-

tery, which lies outside the city, to

reach which one goes from the north

gate of the city for about a mile along

wide avenue lined with cypress trees.

"The portal to Sheng-ling, built in

Tens of Thousands of Graves.

its present form in 1755 by the seventy-

first lineal descendant of Confucius,

gives access to a park-like enclosure

of over 500 acres, containing the

sepulcher of the sage and of all his

"From the outer entrance of the

'Grove of the True Sage' an avenue of

fine and ancient cypresses, about 150

on a side, leads to an inner inclosure,

where are halls for worship and monu-

ments of imperial visits from the Sung

"As one passes inward the monu-

ments become more and more ancient.

The aspects of the park are rather

those of age than of neglect. Present-

ly one comes to 'The Holy Way,' closed

in by walls like "The Emperor's Way

from one palace building to another,

thus denoting the imperial ranking of

of the whole inclosure, the visitor comes to two hillocks that cover the

remains of Confucius and his son. In

front of each is a simple stone alter

and an inscribed pillar, the one before

that of the sage himself reading 'Most

the mound covering the body of Con-

fucius has been brought from each of

the 18 provinces of the empire. How-

ever that may be, it is certainly true

that the influence of the sage has been

and still is felt throughout the whole extent of the great country; and the

prophet himself, while in these latter

radical days somewhat dusty, still

ears on his shoulders the vast com-

monwealth of China, whose moral

basis, with all its deficiencies, is surely

a great memorial to a great and won-derful man."

The management of the Daughters

of Israel Home for the Aged, in New-

"It is said that the earth forming

Holy Ancient Teacher.'

"Finally, in very nearly the center

ong been honored.

the sleeves that are to come-whether effect at the back which, when the they shall be tight or loose, flowing or arms are loosely hung at the side, form plain-but always it is the sleeve, it a capelike look across the back in seems, around which the clothes in- spite of the fact that they are verterest centers, observes a fashion itable sleeves when the arms are posed writer in the New York Times. Col- at other angles. lars, skirts, bodices and waistbands keep their own importance in the scheme of things, but sleeves remain, sleeve, it is usually something else. still, the center of attraction. There is no known fabric, no known | collar or what not? They are, only

method of trimming, no clever adorn-ment for feminine attractiveness that



For afternoon dresses the sleeves

This is one of the happy parts of

They, together, form a cape, a scarf, a

form in the design of the gown con-

sidered as a whole. There are sleeves

which reach into side draperies for

the skirt. And this they do most ef-

For instance, there is a dress of

brocaded silk in gray. It is straight

enough and plain enough by itself. But

then there are the sleeves. They are

folded and draped and flung over the

arms and when the chiffon has fin-

ished making sleeves to be worshiped

for their very beauty then it takes it-

self into the skirt where it is draped

and folded to such an extent that it

makes the real interest of that skirt.

Of course the drapery congregates at the sides and at the hem it falls in

points over the hemline. But the sleeves are the things which start the

idea and from them the folds of the

skirt take their way in unalloyed en-

joyment. To finish the gown there is

a wide band of silver lace to make the

girdle and then there is a chou of vio-

one side to finish off the girdle. On

the whole it is a notable gown, in per-

fect harmony with the style of the

present mode, but after all, its sleeves

are the central points of interest.

From them the draperies that make

the gown distinctive emerge, and in

them are the lines that establish the

continuity of the shaping of the gown

For Afternoon Dresses.

posed of gray georgette, combined with

same chiffon. But who can say that

the sleeves are not the interest of the

are of just as much importance as they are for any other sort of frock. In fact they are more so, if the truth Afternoon Frock of Silver Lace and were faced. Afternoon frocks must, an Underlying Area of Gray Georgof necessity, be graceful and, just now, ette Tucked in Group for Trimming. without flowing sleeves there is no chance of achieving a graceful frock has not been applied to the scheme of without that side addition that makes a sort of sleeve drapery. There is another frock. It is com

sleeve construction and with the utmost success as a result. Each woman who at all prides herself upon her dressing as a mark of distinction for her personality pays much attention wide applications of silver lace. And to the manner of the shaping of her it is a gown that is notable so far as sleeves. There is where the art of the its sleeves are concerned. The sleeves modern gown is concentrated. By the swing and sweep of the sleeve is the make a pattern with the groups of style of the frock established. The tucks that are so arranged that they sleeve, by all odds, carries off the string along the sleeves and then bulk of attention. And so it shall be across the neck. Other than that there during the coming season—so the de-signers have decreed, if their advance stretch over the foundation of the nodels are to be taken as any cri-

By their sleeves ye shall know them. design of the gown? The lace is the That is the new style slogan. The rest trimming. Oh, yes, to be sure. But of the gown may be so simple that it the foundation frock is accentuated by is absolutely devoid of interest. It may the rows of tucks that stretch across cleave to the common level in every the front and the back of the bodice other particular, but as for its sleeves, and then down the sleeves and across there it excels. Sleeves are the importance of any gown. They are the points by which you tell at once whether it is in the class of the ultra smart or not. They may be plain, indeed, but they somehow manage to place themselves as the center around which all interest revolves. That is their distinction in the modern plan of dress.

To Be in Height of Fashion. be "in the swim" of fashion. Do not allow them to sink to the level of mediocrity. fashion. And no matter whether their folds sweep into the soup, they still must carry that gracefulness is so essential a part of the frocks that are new. The sleeve has only just begun to evolve. It promises, during the coming season to establish a real style interest never before achieved in exactly the ratio that this sleeve era shall attain. So, what could be more of fashlon interest than to study the sleeve as it exists today, with an eye to its evolution in the future?

In one model there is used a combination of white against black kasha cloth. Then to join the two together there are rows of handwork in embroidery done with black threads. But it is in the sleeves that the real design converges. They are simple enough to be sure, but they carry with them that certain style which marks them as an insistent part of the modern era.

The blouse of this particular dress is cut in the kimono fashion that is so dear to the heart of the French. But the sleeves slope away in a very informal manner and then they are tied together with a band of the white One of Lanvin's Latest Street Coskasha cloth made to form a sort of a tassel. They are inconspicuous enough, but they have that certain air of being the points of interest that their edges to make a design of simdignify the gown as a portion of the plicity by which the whole tone of the

On some of the newer the band is used to tie the collar together, and these three ties serve to dresses there are seen sleeves that are form a pattern that draws the whole long and tightly fitted. They are mostly of lace or of some transparent ma design of the garment into one. The hat is white, as one might ex- terial, and more often than not they pect, and it is faced with a layer of have some trailing scarflike affair black, while the roll that forms the drooping from them. But there have trimming about the crown is made of been seen these sleeves, and on the very

season's mode. Again at the neckline frock is established.

Capelike Sleeves. The sleeves of this gown are full in a most picturesque manner.

are allowed to flare over the hands

ly fitted even to the wrists and then

tumes. It is a Combination of White

Kasha Cloth With Draped Sleeves.

# THE DEFT ART OF DRAPING VEIL

Countless Ways Used by Women In Arranging the Affair to Obtain

it is more becoming. Harem Veils. sible to put one's personality as much into the wearing of a hat or a dress as into the wearing of a veil-and Worn with one of the marquise hats her own in its arrangement wherein creations with spreading, winglike

broidered. Sometimes a masque effect each side, at the top of the ear, and is achieved in the latter by means of allowed to fold softly just over or just an all-over embroidered design, leav- beneath the chin. Of course the thin

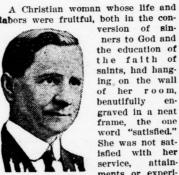
embroidery. Interesting meshes of rather large open design with extremely fine threads holding the design in place are woven with dots in the style

which is at the same time durable and effective. As it is a part of the veil and not lying flat against the surface

Straight over to the harem Paris has gone for the latest idea in veils. -- those close-fitting satin or taffeta ing the masque portion without the lace does not hide the features, and "Complete in Him"

By REV. JOHN C. PAGE

TEXT-Ye are complete in Him.-Coll.



She was not sat-isfied with her service, attainments or experiences, but believing the word of God, "Ye are complete in Him," she was satisfied in heart. The victory of faith was hers.

The only way by which spiritus truth can be realized and enjoyed in experience is by faith. "Abraham be-lieved God." He staggered not at the promise of God, through unbelief, but was strong in faith, giving glory to God and being fully persuaded that what He had promised He was able to perform. This is victorious faith It asserts that God is true and rests upon His word, rather than upor moods, dispositions or feelings Men's Christian association,

When the founder of the Young George Williams, lay dying, a friend leaned over his bed and whispered the words of our text, "We are complete in Him." Immediately a smile passed over the face of the dying man as there came to him in those last monents a renewed sense of a Savior in whom nothing is lacking, whose saving work is as complete as He Himself is complete. The Christ of the Bible is a very different person from the Christ of pious fiction, or the Christ of current literature. There is as much difference between the two as there is between the ocean and dewdrop.

The Preacher's Christ.

certain gospel minister, whose work has been greatly blessed all over the country, was recently called to the pastorate of the most influential church in his denomination. A report er from the city to which he had been called waited on him and in an in terview asked the minister what he intended to preach in his new field. The reply was "I shall preach Christ there as I have here." "What will you preach concerning Him?" asked the reporter. To which the preacher reolied: "I shall preach the Christ of eternity, the pre-existent one, was in the beginning with God, who is one with God, and the one by whom all things were made. I shall preach the incarnate Christ, who 'because the children were flesh and blood likewise Himself took part of the same,' that one who, being in the form of God, took upon Himself the form of the servant and was made in the likeness of man; I shall preach the Christ of the spotless life, who was able to look up into the face of God and say, 'I do always those things that please Him; the Christ of Calvary, whose death provided the only atonement for sin by virtue of which sinners may be reconciled to God; the Christ of resurrection life and power; the Christ of sympathy and intercession, the great High Priest, who is touched with the feeling of our infirmities and who is able to save to the uttermost, those who come unto God by him; and the Christ who shall come again in glory. This," said the preacher, "is the only Christ I know, the Christ of the Bible." God be thanked for all such preachers, who have a mighty Savior to preach about. It is because the Savior is what He is that his work is what it is. He is so complete and his work so absolute

plete in Him." Complete in Him. The first three words of this text could not stand alone in their application to any life. The sense of in-completeness is strong, even in the hollest and best. Of none can it be said, Ye are complete in yourselves, but take the text as it is, "Ye are complete in Him" and it becomes

ly perfect, that God, looking upon

those who are spiritually united to

Christ by faith, can say, "Ye are com-

blessedly true of a great multitude which no man can number. An important Christian truth and doctrine emerges from this text. It concerns our identification or union with Christ. It is not dependent upon any isolated passage of scripture but permeates the whole of the New Tes-tament teaching. It is a truth from which comfort of heart and strength for labor may be derived. It finds expression in part in the following stan zas by Percy Beard:

Thy grave was mine, Lord Jesus,
Thy Resurrection too.
Lord, Thou hast left for sinners
Just nothing else to do
But claim the victory, satisfied
That I am thus identified.

Through aerial hosts, victorious,
Up to His Father's throne—
The Lamb of God ascended
To claim what was His own;
And seated by His Father's side
I'm with Him now identified.

The great High Priest now sea Unceasing prayer now makes, Until He for His footstool His enemies He takes; So I with Him must now abide, an conquering prayer identified.

Shall Renew Their Strength. Even the youths shall faint and be weary, and the young men shall ut terly fail; but they that wait upon the Lord shall renew their strength; they shall mount up like wings as eagles; they shall run and not be weary; they shall walk and not faint.-Isaiah 40 30, 31.

Anxiety. Nothing in life is more remarkable than the unnecessary anxiety which we endure, and generally occasion out selves.-Disraeli.

Noble Examples. Noble examples stir us up to nobl actions, and the very history of large and public souls inspires a man with generous thoughts .- Seneca.

Let all those that put their trust in Thee rejoice; let those that love Thy

name be joyful in Thee .- Psalm 5:11. Understand Wisdom Oh ye simple, understand wisdom; and ye fools, we of an understanding ROLL OF HONOR TRUST COMPANY

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Each Pupil Per Year, Says Bureau of Education.

for use as the mayor's home.

Cape Girardeau is a "millionaire."

Russian rubles. When they were de-

livered to him in sixteen certificates

of 100,000 each he found, by examining

the rate of exchange at the present

time, that the "fortune" was worth

would have been worth \$800,000.

000 children out of the estimated total number of children of school pupil per year. age of 1,796,000 were admitted to the public schools when the sessions opened this week, according to the bureau of education. This is nearly York, has a two-year-old Holstein cow funeral services.

Average Cost of Instruction is \$11.50 the same number as attended school last year, the policy of the bureau this year being simply to keep open new ones, owing to the necessity of Manila, P. I.—Approximately 1,000,- economy. The average cost of in-

drive, New York, recently purchesed for an unknown client, is believed to be ark, N. J., has yielded to the desire

the site chosen as the official residence for New York city's mayor. The build of the oldest inmate, one hundred and

ing is of colonial design, and will, according to rumor, be presented to the city ten years of age, to have her half to use as the mayor's home.

Only Worth \$3.20.
Poplar Bluff, Mo.—Mike Vasil of ALCOHOLIC DEATHS ON INCREASE

Vasil recently fell heir to 1,600,000 New York Medical Examiner Reports months of this year. These include

89 Pct. Over 1920 and 27 Pct.

Over 1921.

over 1921 has been reported by the

and is now champior of Pennsylvania. She made 21,028.1 pounds of milk and 592.92 pounds of butter fat, equivalent to 741.1 pounds of butter. She displaces the record of Bellewood Pontiac Ormsby Ruth, owned by C. W. Bray of Bridgeport, whose record is

Roman custom dictated that a sor York, Pa.-H. E. Robertson, east of of a dead man should conduct the

per cent in alcoholic deaths this year of alcholism who were attended by just \$3.20. Before the war this amount over those of 1920 and 27 per cent private physicians. The total number of alcholic deaths chief medical examiner for New York. for 1921 totaled 127, or 33 less than In 1548 the Jews of Portugal were The report shows that eighty persons the total will be for this year if the died of alcoholism in the first six present rate is maintained.

only victims who died without medical

Dr. Charles Norris, medical exami

attention.

New York,-An increase of nearly 89 ner, said many others probably died

717.1 pounds of butter in the 365 days.

white velvet twisted until it forms a most advanced models, that are tight-

Individuality. There are countless ways of draping long veils. It never would be pos-

every woman has a deft little way of the greatest originality prevails.

sides-the veil is of finest chantilly or In addition to veils of chiffon there of some silk lace. The veil is pointed those of chantilly lace or of net and long, hanging well below the in a fancy mesh quite elaborately em- waist. It is fastened to the hat on

known as bouclette-that is, curl or dered more ornate by outlining the This makes a very light dot, lace pattern with small black beads.

neither is it any protection, but it is new and it is quaint.

Dinner gowns of black lace are ren-