

Geophone Aid in Mine Disasters

Instrument Developed During World War Has Been Perfected by Engineers.

EXPERIMENTS PROVE VALUE

Detects Subterranean Sounds at Great 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 reef 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 factor in the saving of the lives of miners entombed as the result of fires and explosions.

In the course of tests conducted in the bureau's experimental coal mine near Pittsburgh, blows with a sledge on the coal face were heard, by means of the geophone, at a distance of 650 feet, with various rooms and entries 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 geophones, 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 extremely 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 ponderous 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 if the ears were placed in direct contact with the earth.

The observations of the bureau of mines indicate that the geophone should be quite useful in the location of mine fires. Usually a mine fire makes enough noise, either by drawing air or by breaking off slate and coal, to be heard for a considerable distance through the coal, and even through the strata above. The distance that these sounds can be heard depends a great deal on the nature of the strata above the mine, yet the sounds originating at a mine fire should be detected through 100 to 300 feet of coal and through 800 to 800 feet of cover.

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 progress of the tunnels could be observed by means of the geophones, and their relative positions determined.

Another application of the possibilities of the instrument in mine surveying is in the prevention of accidents in blasting through. If two tunnels are approaching each other, or are passing a short distance apart, it is necessary to determine the relative location in order that men may be warned to keep away from the point of danger. As the sounds transmitted through the geophone are so characteristic, frequent observation would enable a trained observer to follow the progress of the work in the opposite tunnel. He would thus be able to tell when blasts were to be fired.

No attempt has been made to adapt the geophone to determine the earth movements that sometimes occur in deep mines and are termed "bumps" by the miners. It is probable, however, that this instrument may be of use in certain parts of the anthracite coal fields where cave-ins have destroyed mine workings, causing loss of life, surface subsidence and injury and destruction of buildings.

The manifest advantage of the geophone 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 assist in the rescue of entombed men at mine fires and explosions.

Washington.—The tomb of Confucius, the mecca to which millions of Chinese pilgrims have journeyed, is said by dispatches to be covered with weeds due to a dispute between deities 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 if the ears were placed in direct contact with the earth.

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JACKASS IS HIS MASCOT



Maj. Claude Davenport, an American army officer stationed in Rumania, has adopted as a mascot a young jackass. He is here seen holding his pet, then five weeks old.

To Concentrate on the Sleeves

We hear all sorts of rumors about the sleeves that are to come—whether they shall be tight or loose, flowing or plain—but always it is the sleeve, it seems, around which the clothing interest centers. Observes a fashion writer in the New York Times. Collars, skirts, bodices and waistbands keep their own importance in the scheme of things, but sleeves remain, still, the center of attraction.

There is no known fabric, no known method of trimming, no clever adornment for feminine attractiveness that

enough to run into a sort of drooping effect at the back which, when the arms are loosely hung at the side, form a caplike look across the back in spite of the fact that they are veritable sleeves when the arms are posed at other angles.

This is one of the happy parts of the modern sleeve. Besides being a sleeve, it is usually something else. They, together, form a cape, a scarf, a collar, what not? They are, only to begin with, sleeves, but they usually have some other function to perform in the design of the gown considered as a whole. There are sleeves which reach into side draperies for the skirt. And this they do most effectively.

For instance, there is a dress of broadened 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 then there is a chiton has finished making sleeves to be worshipped for their very beauty then it takes itself 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 enjoyment. To finish the gown there is a wide band of silver lace to make the girdle and there is a chiton of violet flowers made of chiffon posed at one side to finish off the girdle. On the whole it is a notable gown, in perfect 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 itself.

For Afternoon Dresses. For afternoon dresses the sleeves are of just as much importance as they are for any other sort of frock. In fact they are more so, if the truth were faced. Afternoon frocks must, of necessity, be graceful and, just now, without flowing sleeves there is no chance of achieving a graceful frock without that side addition that makes a sort of sleeve drapery.

There is another frock. It is composed of gray georgette, combined with wide applications of silver lace. And it is a gown that is notable so far as its sleeves are concerned. The sleeves and the upper section of the bodice make a pattern with the groups of tucks that are so arranged that they string along the sleeves and then across the neck. Other than that there are only layers of the silver lace which stretch over the foundation of the same chiffon. But who can say that the sleeves are not the interest of the design of the gown? The lace is the trimming. Oh, yes, to be sure. But the foundation dress is accentuated by the rows of tucks that stretch across the front and the back of the bodice and then down the sleeves and across

Afternoon Frock of Silver Lace and an Underlying Area of Gray Georgette Tucked in Group for Trimming.

has not been applied to the scheme of 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 to the manner of the shaping of her sleeves. There is where the art of the modern gown is concentrated. By the swing and sweep of the sleeve is the style of the frock established. The sleeve, by all odds, carries off the bulk of attention and so it shall be during the coming season—so the designers have decreed, if their advance models are to be taken as any criterion.

By their sleeves ye shall know them. That is the new style slogan. The rest of the gown may be so simple that it is absolutely devoid of interest. It may cleave to the common level in every other particular, but as for its sleeves, 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. So, see to your sleeves if you would be "in the swim" of fashion. Do not allow them to sink to the level of mediocrity. They are your banners of fashion. And no matter whether they fold sweep into the soup, they still must carry that graceful line which 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 fashion 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 white kasha 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 dignify the gown as a portion of the season's mode. Again at the neckline the band is used to tie the collar together, and these three ties serve to form a pattern that draws the whole design of the garment into one.

The hat is white, as one might expect, and it is faced with a layer of black, while the roll that forms the band is used to tie the collar together, and these three ties serve to form a pattern that draws the whole design of the garment into one.

The management of the Daughters of Israel Home for the Aged, in Newark, N. J., has yielded to the desire of the oldest inmate, one hundred and ten years of age, to have her hair bobbed "like the other girls."

Capelle's Sleeves. The sleeves of this gown are full

One of Lanvin's Latest Street Costumes. It is a Combination of White Kasha Cloth With Draped Sleeves.

their edges to make a design of simplicity which the whole tone of the frock is established.

On some of the newer summer dresses there are seen sleeves that are long and tightly fitted. They are mostly of lace or of some transparent material, and more often than not they have some trailing scalloped affair drooping from them. But there have been seen these sleeves, and on the very most advanced models, that are tightly fitted even to the wrists and then are allowed to flare over the hands in a most picturesque manner.

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"Complete in Him"

By REV. JOHN C. PAGE
Teacher of Bible Doctrine, Moody Bible Institute, Chicago.

TEXT—Ye are complete in Him.—Col. 1:10

A Christian woman whose life and labors were fruitful, both in the conversion of sinners and the education of the faith of saints, had hanging on the wall of her room, beautifully engraved in a neat frame, the one word "satisfied."

She was not satisfied 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 spiritual truth can be realized and enjoyed in experience is by faith. "Abraham believed 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 upon moods, dispositions or feelings.

When the founder of the Young Men's Christian association, Sir 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 moments 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 such a difference between the two as there is between the ocean and a dewdrop.

The Preacher's Christ. A 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 called upon him and in an interview 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. "I shall preach the Christ of eternity, the pre-existent one, who 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 became flesh and blood, and who lived, died and rose again. I shall preach the Christ who is the only Christ, 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, perfect, that God, looking upon us, those who are spiritually united to Christ by faith, can say, "Ye are complete 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 incompleteness is strong, even in the holiest 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 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 Testament 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 statement 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, 'Tis His Father's side I'm with Him now identified.

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

Shall Renew Their Strength. Even the youths shall faint and be weary, and the young men shall utterly fall; but they that wait upon the Lord shall renew their strength; they shall mount up like 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 ourselves.—Disraeli.

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

Be Joyful. Let all those that put their trust in Thee rejoice; let those that love Thy name be joyful in Thee.—Psalm 51:11.

Understand Wisdom. Oh ye simple, understand wisdom; ye fools, we have an understanding heart.—Proverbs 8:5.

Lace and Beards. Dinner gowns of black lace are rendered more ornate by outlining the lace pattern with small black beads.

One of Lanvin's Latest Street Costumes. It is a Combination of White Kasha Cloth With Draped Sleeves.

their edges to make a design of simplicity which the whole tone of the frock is established.

On some of the newer summer dresses there are seen sleeves that are long and tightly fitted. They are mostly of lace or of some transparent material, and more often than not they have some trailing scalloped affair drooping from them. But there have been seen these sleeves, and on the very most advanced models, that are tightly fitted even to the wrists and then are allowed to flare over the hands in a most picturesque manner.

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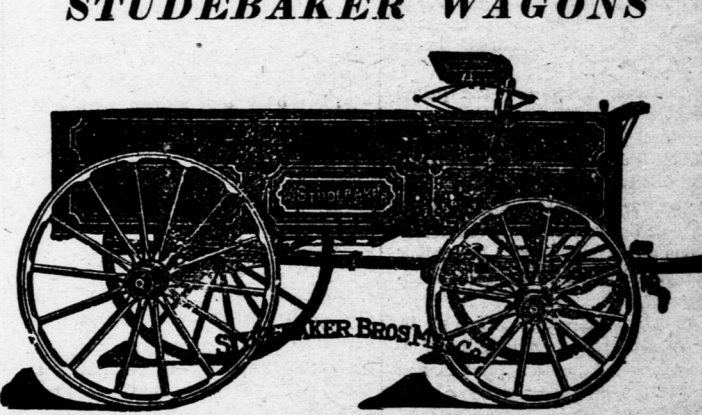
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