

ONE OF UNCLE SAM'S SAMOAN SOLDIERS.

The United States has a model little army in the Samoan Islands, according to letters officers of the United States cruiser Philadelphia sent from New Zealand. They say the United States cruster Financephata sent from New Zealand. They say the Tutuila Naval Guard is one of the best drilled bodies of troops in the world. The natives look upon the soldier business with great enthusiasm when enlisted under the American flag, and they have been drilled until they show great perfection in military movement. The Semean trease when which even under white reast under the data The Samoan troops wear red turbans, white navy undershirts and blue dun-garee "lava-lavas" or breech-cloths, with two red straps around the hem. garee "lava-lavas" or bro The legs and feet are bare.

BLOSSOMS THAT EMIT LIGHT. When the Pollen Bursts Electricity is

Generated With Faint Flashes. To a woman belongs the honor of To a woman belongs the honor of having first discovered flowers that emit light. This woman was the daughter of Linneaus, the celebrated Swedish naturalist. One evening, when the aged man and his daughter where walking in their gardens, she called his attention to some nastur-tiums glowing with a faint phospho-rescent light. They removed these to a perfectly dark room and there viewed the ghostly illuminated flowers for hours, trying to solve the mystery. Since that time, says the New York Herald, a number of different flowers have been found to give forth a light, among them being the corolla of the common sunflower; also a species of tagetes, called by the French botanists the "rose d'Inde," and the large and beautiful compound flower called in

this country the dahla. "Luminous nasturtiums," writes Professor A. Frederick Collins," "have frequently observed in Golden Cate Park, San Francisco. I observed one evening a number of persons bending over an iron pot full of nasturtiums. Curious to know what the attraction was I fell into line until it became my turn to inspect the flowers at closer range. "I was surprised to see a flash of

light dart repeatedly from the yellow petals. The next day I photographed

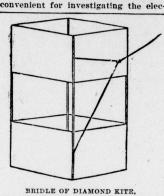
"A strange fact regarding the phos phorescent light emitted by certain



Armor Presented to the King. The sixteenth century suit of armor presented to the King on June 13 by a number of gentlemen, headed by the Duke of Marlborough, was worn at



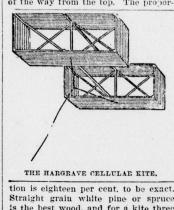
Mature men enjoy the sport greatly, though the oppor-tunities for it may not be afforded ex-cept during their annual vacations. Kites are used a great deal nowadays for scientific purposes, too. The device which Franklin found so



tricity of a storm cloud has also been employed for carrying up self-register ing thermometers to great altitudes. The United States Weather Bureau, by simultaneous observation over a wide area, has learned much about atmospheric conditions at an elevation of nearly ten thousand feet. At the private observatory of A. Lawrence Rotch, near Boston, kites have been sent up twelve thousand and fif-teen thousand feet. Photographs have in the same way been obtained far above the earth's surface, and a number of daring and ingenious army of ficers have sought to sustain them selves in the air at a sufficient eleva-tion to reconnoitre. These last men-tioned ventures, though rather promising, have not been attended with any marked success. Still, the vast majority of those who fly kites do so for recreation and not for purposes of research.

At the shops one can find a great rariety of kites. Some are shaped like yachts, and others like eagles. These are rather expensive, however. The more common forms, both in the toy trade and among scientists, are the Eddy and box kites. Both of these are tailless, which fact simplifies the work of flying them, though calling for a little greater precision in con struction.

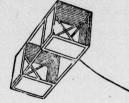
It is possible for a person endowed with a fair amount of mechanical skill to make his own kites. Inasmuch as it is common to fly several at once, tandem, and as there is more or less loss from breakage sooner or later, naturally wishes to have any where from two to a dozen, and if that number were purchased ready made the cost would not be trifling. For the Eddy kite two sticks are required, one upright and the other crossing it at right angles, one-fifth of the way from the top. The propor-



Straight grain white pine or spruce is the best wood, and for a kite three or four feet high the sticks should be half an inch wide, and a quarter of an inch thick. At the intersection the

Thin manila paper, silk or light mus-lin will make a good covering. This should fit a little loosely, so that on

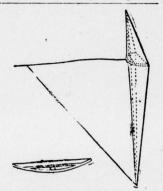
each side of the upright stick the



bridle for flying is made by tying one string to the bottom of the upright stick and another to the intersection of the two, their lengths being such that the upper end will go out at right angles from the face of the kite. The bridle terminates in a loop, and the kite string is tied to the latter. Hargrave, an Australian, is credited

with originating the cellular or box kite. But the experts of the United States Weather Bureau have tried a number of modifications of the design in matters of detail. So have Mr. Clayton, of the Blue Hill Observatory; Lieutenant Hugh Douglas Wise, U. S. A., and others. Some men have the tops and bottoms of the cells hori-Others turn them up cornerzontal. wise. Again, one experimenter imparted a diamond shape to the big cell. For the Potter, or diamond, kite the United States Weather Bureau gives these dimensions: Four corner sticks, forty-four inches long, five-eight inch wide and quarter inch thick. Upright braces, or struts, fifteen inches, and horizontal braces thirty-eight inches long. The cells are of cloth, hemmed on both edges, thirteen inches wide and eighty-one inches long. Two of these are needed, of course.

Eddy kites are easily sent up with-



THE EDDY KITE.

out assistance. To raise a box kite it is wise to let out 150 or 200 feet of string; have this lie exactly in line with the wind, and get some one to hold the kite lightly until the wind catches it and begins to lift. At the instant it is released fifteen or twenty feet of cord should be pulled in. That performance has the same effect on the kite as running. If the kite shows a disposition to dive, let out a little twine quickly.

When a flag is to be sent aloft by means of kites, one edge should be tacked to a stick sufficiently heavy to hang vertically, and the upper end of the stick tied to the kite string when the kite or team has gone up only a short distance.-New York Tribune.

The Largest Ship Afloat. The new White Star liner Celtic heads her class of passenger steamers in size and magnificence. Her cabin capacity is 2859 passengers, yet to give an idea of the roominess and comfort of the boat, it is estimated that 40,000 men could stand on one of her spacious decks. She is 700 feet long, has a beam of seventy-five feet and a depth of forty-nine feet. Although not so long as the Oceanic by five feet, she has seven feet more beam, and measures 3000 tons more. Her tonnage is 20,000 gross, and her displacement, at load draught, is 38,-220 tons. With engines of the quadruple expansion type, twin screws,

DR. TALMAGE'S SERMON SUNDAY'S DISCOURSE BY THE NOTED

DIVINE.

Subject : The Methods Needed in the Mod-ern Church—A Practical Gospel is Help-ful—Ministerial Laziness Denounced— The Church Needs No Apologies.

ful-Multakerial Laxiness Denounced-ful-Multakerial Laxiness Denounced-The Church Needs No Apologies. (Copyright, 199.) WasyrtNoron, D. C.-Most encouracing to all Christian workers is this discourse of Dr. Taimage which represent Sunday audiences as diminishinc: text. Hebrews x. 25. "Nor forsolving the accur-new spaces as diminishinc: text. Hebrews x. 25. "Nor forsolving the assembling of ourselves together." Startling statements have been made in many of the pulpits and in some religious newspaces. It is heard over and over again that church attendance in America is in decadence. I denv the statement by presentine some hard facts. No one will dispute the fact that there are more churches in America than ever before, one denomination averaging two new of demand and supply is as inexorable in the kingdom of God as it is in the world. More churches supplied arouse more indections. More factories, more man-indectines. More factories, more man-indexters. More factories, more man-indectines. More factories, more man-facturers. More ships, more importers. More churches nore attendants. The la our cities within a few rears churches have been huil large enough to swallow up two or three of the o'd-time the winged schemere in America is in decadence. Take the aggregate of the proper bankers. I cannot understand with what kind of arithmetic and slate beend in a man-churches in America is four to one. The facts are most exhilterating instead of heresent attendance is four to one. The facts are most exhilterating instead of heresent attendance is four to one. The facts are most exhilterating instead of the oposite statisties must have been and. You are not to argue adversely because.

ance. You are not to argue adversely because here and there a church is dep'eted. Churches have their day. Sometimes merchandise will entirely occupy a neigh-borhood and crowd out the churches and families ordinarily attendant upon them; comparisons a church upor them;

iamilies ordinarily attendant upon them; construes a church newtoke theore ternecine strife. But there are no facts to overthrow the statement that I have made in regard to the increasing attend-ance upon the house of God. Now, I am will admit, that there are churches which have been depleted, and it is high time that a sermon be preached for the benefit of young men who are just entering the gospel ministry and for the warning of prosperous churches as to what we the causes of decline in any case. If mer-chardise crowd out a church, that cannot be helped, but under all other circum-stances decadence in church attendance is the fault either of the church or of the pare.

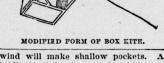
Churches are often cleared of their audiences by the attempt to transplant the modes of the past into the present. The modes and methods of fofty years ago are no more appropriate for to-day than the modes and methods of to-day than the modes and methods of to-day than the transplant for the day than the transplant of the past into the present. The modes and methods of to-day than the propriate for fifty years hence. Dr. Kirk, Dr. Vermilyca and hundreds of other men just as good as they were never lacked audiences, because they were abreast of the time in which they lived. People will not be interested in what we day in which we live. All the woebegonish statistics are given by those who are trying in our time to work with the wornout machinery of the past times. Such men might just as well throw the furnaces out of our church basements and substitute the foot stoves which our grandmothers used to carry with them to meeting, and throw out our organs and our cornets and take the old fashioned tuning fork, striking it on the knee and then lifting it to the ear to catch the pitch of the hymn, and might as well throw out our modern platforms and modern pulpits and then go in out of sight and shut the door after him.
The trouble begins away back in the theological seminaries. It is a shame that larger provision is not made for the second or crippled, and it is a shame that larger provision is not made for the zood solders of Jesus Christ who have worn themselves out in battling for the Lord. But lack of provision in that respect makes a tendency to the nological seminary. There are provision is not made for side and and age and infirm ministers.
We have have have beeven ender the decry is to elect him to a professorate in some theological seminary. There are provision is not have bere and on the professorates in the faculty is the professorates. In some theological seminary is occupied by some minister of the gospel who, not being able to preach. In more cases than one theological seminary

immortal nature, a Christ who will help us in every domestic, social, financial, political, national struggle, a Christ for the parlor, a Christ for the nurserv, a Christ for the street, a Christ for the store, a Christ for the store, a Christ for the barking house, a Christ for the factory, a Christ for the courresional assembly, a Christ for the courresional assembly, a Christ for the courre room, a Christ for every trial and every emergency and every perturbation.
 Oh, my brethren in the Christian ministry, we must somehow get our shoulder under the burden of the people on the Lord's day and give them a good stout lift, and we can do it. We have it all our own way. It is a great pity if, with the floor clear and no interruption, we cannot during the course of an hour get our hymn and our praver or our sermon under such momentum as we can by the help of God, lift the poole, body, mind and soul, clear out of their sins, temptations and troubles.
 I think that ministerial laziness often empties the church of and troubles.

I think that ministerial laxiness often empties the church of auditors. Hearers wapers and by active association in busi-ners circles will not on the Sabbath sit and listen to platitudes. Hearers will not orimortant facts, no information, no stir-new will not listen to the public urless at least on the subject that day under dis-cussion, the public knows more than the many churches. Such ministers sumter and on the subject that day under dis-gent of the public knows more than the many churches. Such ministers sumter and on partor to parlor under the many churches. Such ministers sumter and on Sunday morning wonder that the theme of pastoral visitation and so ged-ding about through the villace or the city was their brains around a ciger and sucke them un and then on Saturday af-ternoon unt a few rule thoughts together and on Sunday morning wonder that the source of churst and Him crucified does rob bring a large audience, and on Mon-day sit down and write jeremids for the context attendance. The Bible says I must go to church. It is induct to go to church merely as abuth be a thousand people in any city who will eet up in the morning and say: "The Bible says I must go to church. It will go to church. The vast multitude of people who so to church so to church be cause they like it, and the multitude of people who so to church so to church be reaves they like it, and the multitude of people who so to church so to church the we must make the centrifugal. We wust make the centrifugal. We wust make the centrifugal. We we use make our churches magnets to draw the people thereunto, so that a man will feel uneasy if he does not go to church reaves they are of colurch. The world is, Taking things are they are in time. It is Hol-clock; now they are in time. It is half-tost II; now they are in time. It is half-tost II; now they are in time. It is half-tost II; now they are in time. It is half-tost II; now they are in time. It is half-tost is morning. We obe it for early the one is a Biblio in time. It is half-tost I

in as imperial grandeur as did Edward Payson? Is it any less an illustration to me and to you because I met him a few weeks be-fore in front of Trinity Church, Broad-way, and I said: "Cookman, you look as if you were working too hard?" Where in all the classics is there such a story as that of Cookman, when in his last moment be cried: "I am sweeping through the gates washed in the blood of the Lamb?" Oh, fellow Christian workers, what is the use of our being stale and obsolete and ancient when all around us are these evidences of God's grace, God's deliver-ance, God's mercy and God's wisdom? We have got to freshen up in our sermons, freshen up in our songs, freshen up in our geal, freshen up in our consecration, and if we do it, my brethren and sisters, we will no more have to coax people to come to church than if you throw your on the ground you have to coax pigeons to come and eat it, no more than you would have to coax a tired horse to eat the oats you throw in his manger. Yes, we must freshen up in our Sunday-sehools and in our prayer meetings and in our pulpits. It is high time that the church of God

of G church. , who If It is high time that the church of God stopped writing apologies for the church. Let the mer who are on the outside, who despise religion, write the apologies. If any people do not want the church, they need not have it. It is a free country. If any man does not want the gospel, he need not have it. It is a free country. But you go out, oh, people of God, and give the gospel to the millions of America who do want it. is high time that the

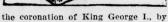


LUMINOUS NASTURTIUMS IN GOLDEN GATE PARK.

flowers, it has been observed, is that those in which the yellow and orange predominate exhibit the greatest amount of light. Professor Haggern, the naturalist, pronounces the light of electrical origin, declaring that when the pollen bursts electricity is produced, and light follows."

Swimming Pheasants.

The pheasant, everybody knows, is a non-aquatic bird; therefore Professor Lloyd Morgan's observations that newly hatched birds of the age of thirty hours swim easily, show apt leg movements and exhibit few signs of distress, is of singular interest. Is this swimming habit a throw-back or reversion to an antecedent state in the history of this land-giving species, or is it to be regarded as an example of a direct and sudden adaptation to a ew environment?-London Chronicle. | be found in family jars.



the champion, Dymoke, whose fee it became after the ceremony. The suit was made for Sir Christopher Hatand is the work of the armorer, The breastplate, of markedly Jacobi. peased form, is of great size, with two laminated plates at the bottom, and on the left hand side five staples for the attachment of the lance rest. The decoration of the breastplate is of great interest, as at the top of the centre band is the crowned reverse cipher, represented by a capital E and beside it the same letter reversed, a symbol which was used, no doubt, in compliment to Queen Elizabeth; above the monogram is a strapwork panel, containing the figure of Mercury; at the base of the breastplate is an oblong cartouche, with the date 1585. The same theme of ornament is re-peated on the back plate. The legs are small in comparison with the rest of the suit. It was purchased by the presentation committee from a New Bond street art dealer.

A Hoodoo Bird'

Boone County, Mo., has a sort of hoodoo bird known as "the belled buzzard" which has returned to the neighborhood at intervals of a few years since before the days of the old est inhabitant. It carries a bell at-tached to an iron collar. The bird has just come back very gray and sluggish. It is believed to be at least a century old.

The sweets of family life are not to

should be fastened together with brads or twine. The ends being suitably notched, twine or fine wire should be tightly stretched around them

Before this stage of construction is reached certain other measures must be taken, in order to give the kite a slightly bulging front. The cross stick should be bent backward like an archer's bow, and the curvature preserved by a string from end to end.

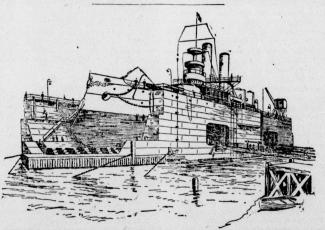
she ought to be the steadiest craft afloat. The staterooms are large and comfortable; and suites, including liv ing room, chambers and bathrooms, are furnished for families. The steer

great depth of beam and huge keels.

age is said to be as luxurious as the first-class accommodations of twenty years ago.

Very few of us would be willing to take our own advice.

THE NEW FLOATING STEEL DRYDOCK OF THE UNITED STATES NAVY.



LAUNCHED AT SPARROW'S POINT, MD., AUGUST 15-AS IT WILL LOOK HOLDING ONE OF THE BIG BATTLESHIPS. [This is the largest dock in the world, and a valuable addition to our navy. It is 525 feet long, with a lifting power of 20,000 tons and cost \$810,000. It will be sta-tioned at Algiers, near New Orleans.) It

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