THE 46-KNOT TORPEDO.

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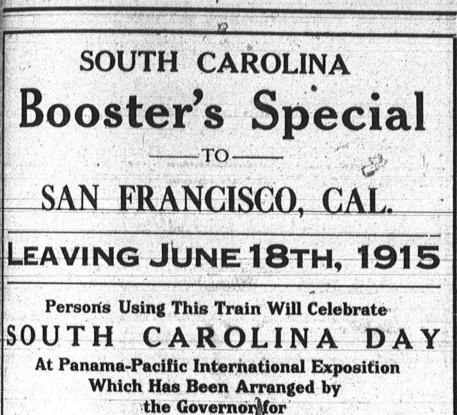
States Naval Officers Discus of the Lusitania.

The German torpedo or torpedoes jestroyed the Lusitania were fired a range of not more than 1,000 and the torpedoes themselves ably traveled at a speed in excess tory knots. The submarine or subseries from which the weapons were scharged were submerged not more an fifteen feet, and they had plenty fime to get the exact range before topedoes were discharged. Furthwe the torpedoes were of the most dem and powerful type and of the ughest possible speed.

That is the opinion of many of the mens of the torpedo flotillas now in neral months' ago.

1000 yeards; but the evidence to be chamber. indicates that all of the German

a to more than 40 knots.



of a Torpedo," which describes, in un- ter. One will turn slightly to the left, derstandable language and in a correct another to the right, or shik in the way these terrible missies.

"A first-class battleship takes the wards," the author writes. "This ponif struck by a torpedo,

from fourteen to nineteen feet, and weighs up to half a ton. It has an extreme range of 4,000 yards. The bluint nose or 'war head.' as it is called, is the business end of the torpedo. and contains the dry and wet guncotton and the fulminate of mercury necessary for the explosion.

"Behind the explosive head is the air Hadson river, all of whom have chamber to hold the compressed air teely followed the German subma- by which motive power is furnished. activities since the under-water Then we come to the search chamber ar sgainst belligerent and neutral or brain of the weapon, which conmerce was started by the Germans tains most marvelous mechanism for directing and controlling the machine. The extreme range of a corpedo, it Next comes the engine room, and at explained by these officers, is about the tail of the torpedo, the buoyance

"The moment a torpedo is used for amarine work is being done at short. practice a new phase of its life begins. range, perhaps less than 1,000 yards. Like a boy first going to school, a recthe less range the speed of the tor- ord is started of its conduct. It has to sgreater and the aim correspond- already been given a distinctive nummady more accurate. At the 4,000-yard ber, and at the top of each record or ange the speed of a modern torpedo 'history sheet,' as they are more often and be between 27 and 30 knots; at called, this will be entered. Below is 1000 yards about 32 knots, and at 2,000 entered the number of times it has been ands between 33' and 36 knots. At fired and any eccentricities which have

s range the speed may vary from been noticed during its progress thru the water. It is a curious fact that no One of the American officers stated two torpedoes have ever been constructnat in Charles W. Domville-Fife's book ed exactly similar. Each one is atwitted "Submarine Engineering of To- ways found to have some little peculiw," there is a chapter on "The Life arities when traveling through the wa-

water lower than is usual,

"Everyone of these little peculiaribest part of three years to build, and ties indulged in by the torpedo is noted may cost anything from \$1,000,000 up. in the history sheet and referred to before the weapon is again fired. By derous ship of war can be sent to the this means all the slight derects can bottom of the sen in but a few minutes be allowed for and a much more accu rate aim obtained. It is the duty of "The modern torpedo varies in length the torpedo lieutenant to make up all the 'history sheets' on a vessel, and he may be almost looked upon as a schoolmaster with a lot of small children to understand and manage. Sometimes but not often during trials a torpedo is lost. Perhaps days afterward the truant turns up, either washed ashore or towed in by some fishermen after having torn their nets to pieces

"A small chamber in the torpedo carries compressed air weighing about nine stone. This helps to sink it to the required depth after it has entered, the water. This air, escaping from the chamber, by means of a regulating valve, drives the engine at a high rate of speed, which is almost uniform thruout the trip from the tube to the tarpellers at the tail of torpedo. These revolve on the same axis, but in opposite directions, the object being to give stability to the weapon-a necessary thing inasmuch as it has no keel and would route it if it were driven by a single screw

"The steering is effected by vertical rudders, which keep the torpedo in the required direction, while the proper depth in the water-usually from ten to fourteen feet-is maintained by horizontal-rudders. The torpedo is kept submerged by means of the balance chamber, and is controlled in its steering by the wonderful instrument known as the gyroscope.

"So marvelous is its mechanism that in favorable circumstances the torpedo well almed, may be depended upon to strike within a yard or two of the spot aimed at. Briefly described, the gyroscope is a rotating wheel which automatically controls the torpedo's course.

"The method if firing a torpedo is very much like that of discharging a gun. It is expelled from a torpedo tube by compressed air, Upon reaching the water the torpedo is driven by its screws in the required direction, The missle is guided by a very ingenious invention called a 'torpedo director.' This is a little brass instrument fitted with 'sights' like a gun. When the sights are aligned on the enemy the "officer in charge presses a key, and electricity causes the discharge.

"Nearly every ship in the British navy is fitted with tubes and carries Whitehead torpedoes. There are two



Wilhelmina Bischoff, a volunteer nurse in a hospital for sick and wounded soldiers in Germany, entered upon her service with an admonition from her father in this wise:

"My daughter, I desire that you do not permit yourself to confine your nursing to any one patient. There is no more prolific field for love affairs than nursing. A young man, grateful for the attention he receives, falls in love with his nurse, the nurse pities her charge, and pity is akin to love. I wish you to remain fancy free be cause of this proposed match between you and your Cousin Adolf in America a match desired as much by my broth er, his father, as by myseif. The Miss Marguerite Clarke in "Wildflower", Majestic Theatre, Monday, May 31st, American branch of our family has grown rich, while we have remained poor. It is therefore desirable that you should marry your cousin, who, as you get. The engines turn two screw pro- know, will come over from Americal for the purpose as soon as this war has ended.'

"Yes, father," replied Wilhelmina, "you will find me a dutiful daughter in this respect as in all others. We German girls know what is due to our parents, but I have heard that in America it is different-that in that country there is but little respect for age or parental authority, and young people consult their own wishes instead of those to whom they owe obe-

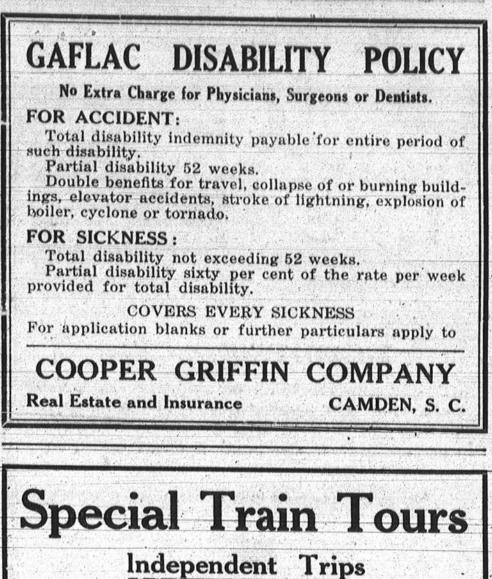
dience.' This dialogue, which illustrates the difference between foreign and Ameri can marriages, was satisfactory to Heri Bischoff, who felt sure that his daughter would heed his admonition. But the old man's reasons for caution were stronger even than he had stated them. A young soldier who had been wound ed in Belgium came under Wilhelmina's care, fell in love with her, and the pity she felt for him as well as the love he offered her caused a reciprocal feeling to arise within her own heart. He asked her all about herself.

her name, the place in which she lived and told her that as soon as he was convalescent and should be granted a brief leave he would go to her father and ask for her hand. To this she replied that she was to marry a cousin who was to come from America as soon as the war was over.

"What." exclaimed the soldier. "marry one who takes no part in the defense of the fatherland and refuse one who has given his blood for it? 1 am astonished that so lovely a girl should do such a thing."

To this Wilhelmina replied that she owed the same duty to her parents that she owed to her country and whatever her father bade her she would do. The soldier insisted that he would go to her father and represent to him his want of patriotism and sure that he would relent. But the lover added that Wilhelmina must be at home when he came, that she might effective, the above-water type being add her supplications to his. Wilhelmina consented to this, but averred that without her father's consent she would not accept her soldier suitor. When the young man became well enough to totter forth from the hospital he was given a month's leave. and Wilhelmina preceded him to her home to break the matter to her parents. When the lover came he found the father obdurate. Wilhelmina had represented the matter to him, and he replied that it was the soldier's duty to serve his country and he was not entitled to a reward, especially such a reward as he asked. The American to whom Wilhelmina was engaged had been born in another country, and his duty was to his own state. Therefore no more should be said about the matter. Wilhelmina should await the ar-





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kinds of tubes, above-water and submarged. The latter are much safer to work with and have been found more very liable to be struck just as a torpedo is being discharged."

American submarine officers say that while the Whitehead type of torpedo embodies the principal feature of all torpedoes fired from submarine tubes, it is possible that the Germans may be using a torpedo that in certain minor particulars may differ from the Whitehead. So far as is positively known, however, the German torpedo is similar in practically all essentials to those used in other navies, and of which the Whitehead is the best known and most used type .- New York Times.

If Such There Be, Go, Mark Him Well.

Breathes there a man with soul so dead, who never to himself has said : "That editor has quite a head, I'm glad I take his paper. He's got a raft of grit and sand, he prints the news of all the land, he boosts the town to beat the band and that's the proper caper. He soaks the grafters in the neck, he saves the Ship of State from wreck, he's Johnnie on the spot, by heck, when things are in a jumble. He writes the ads that bring the dough, he chases all our gloom and woe, he tells us all we want to know-and yet he is quite humble. He never gets a bit stuck up, he's worked since Hector was a pup to earn his daily bite and sup and have a little over. I know we owe him many plunks, so let us shame the other skunks and furnish him with kale in chunks, wherewith to live in clover."-E. F. McIntyre.

Maj. Gen. Moore has announced that E. M. Blythe, of Greenville, and H. B. Springs, of Georgetown, recently, elected colonels of the First and Second regiments, respectively, have successfully passed the required examinations. Curan Alexander, a young white man of Pelzer, was found guilty of the murder of his wife in Anderson last week Alexander in a fit of rage several months ago, cut his wife to death. He was recommended to the mercy of the court and sentenced to life imprisonment.

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rival of the man whom she was to marry. When the soldier arrived and was informed of the situation he made matters worse by declaring that he would marry Wilhelmina in spite of her father, her mother and all her American relatives, including the cousin. "You don't talk like a German at all,"

said Herr Bischoff angrily. "You talk like an American, for I have understood that in America there is but little respect for age and parental authority. Get you gone back to the army, and it is hoped that your country may get rid of you on the battlefield."

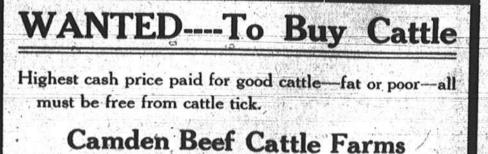
"I will marry Wilhelmina first," the soldier retorted.

"You will do no such thing." 'Well, at least give me five minutes' parting conversation with her alone; then if she wishes it I will give her up." This promise induced Herr Bischoff to grant the interview, after which the soldier bid them all goodby. That night he eloped with Wilhelmina and in the morning neither of them put in an appearance. Herr Bischoff hunted high and low for them, but was unable to find them. However he learned that they had been seen together going back in the direction from which they came, and he followed them. Overtaking them, he upbraided his daughter and cursed his son-in-law.

"I told you," said the latter, "that I would marry Wilhelmina, and I have done so. In marrying me she has obeyed you, for I am William Bischoff, a citizen of the United States. Desiring to see something of this big war, I came over at its commencement instead of at its end to enlist in the German army as well as to marry my consin."

Whereupon Herr Bischoff clasped the pair enthusiastically in his fatherly ATTON.





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