

SCCHOOL STUDY SPORTS

THE JUNIOR BRITISH WHIG BIGGEST LITTLE PAPER IN THE WORLD

HUMOR PLAY WORK

THE SWIMMING CLASS

Ornamental swimming is the title under which every little aquatic trick is performed. For the swimmer who is thoroughly at home in the water, almost any of these tricks is a matter of practice and can be performed after a few trials.

POPOISE: Imitation of a porpoise is one of the greatest stunts you can do. It consists merely of a series of surface dives, letting the feet rise high from the water, legs straight and toes pointed, as you go down. If the water is shallow—that is, about four feet deep—go to the bottom, crouch and spring upward. Done over and over again it is very effective.

SOMERSAULTS: Tread water, with arms out to the sides, palms down. Bend head forward, take a hard stroke with both arms to force the body down, and keep it curved until you reach the surface again. Performed swiftly and cleanly it is a pleasing trick. For a back somersault, start in the same manner, only throwing back the head, arching the spine, and bending the knees.

SPRINGS: This is very effective. Start swimming with crawl stroke, using a short double kick, on the order of a fish-tail motion of each leg.

Then begin revolving, taking alternately a forward and a back-hand stroke. Start slowly, then speed up.

REVOLVING STATURE: Also known as the rolling log. Straighten out in the floating position, and clap hands straight above the head. Take a deep breath, and revolve rapidly by a slight movement of the head and waist. Keep the body as straight as possible.

BICYCLE: This is performed just as it sounds. Lie on either side,

THE SHORT STORY, JR.

ONE BRIGHT IDEA

I'd never been out camping much, but thought that I was wise. I reckoned I'd not be so green if I'd just use my eyes, and Jimmy, who's my closest pal and went along, said he was kinda green himself and in the selfsame fix as me. And so we kinda stuck around and helped each other out, and wasn't long before we felt we knew our way about.

Well, one day Jim says, "Looky here, does it occur to you that some day you might lose your way, and then what would you do? Such things do happen, Herb, you know, you might just get astray and leave the bunch, and then first thing you know you've lost your way. It makes me feel so shaky-like to think of it at all."

Says I, "That's not so very bad. We'll just arrange a call. Remember those detective yarns we read and how that guy named Tompkins and his brainy pal arranged a bird-like cry? An owl it was; you recollect? The notes could carry far; now if you'd use a thing like that, I'd find out where you are."

"A swell idea," says Jim to me, "and kind of thrilling, too—a secret call twist you and me—that hoot hoot cry will do. And if you're lost, I'll hunt for you and call for you all day. The gang won't need to know you're green enough to lose your way."

Two days from then the very thing we talked of came to be. As luck would have it, why, of course, the one that strayed was me. 'Twas almost dark when I was sure I'd lost my way to camp. I sat down on a mossy stump, all worn out from the tramp. My head sunk down—dejected-like—and then I heard a hoot. I gave a joyous howl and started running toward the place from where the "hoot" came; but, as usual, I was a little off the spot; was never quite the same.

Now here, now there; now far, now near, I heard him calling me, and I returned the cry till I was hoarse, as I could be. I kept a running back and forth,—it came from all around. At last I couldn't stand at all; I sank to the ground.

And then I saw a little light come gleaming through the trees, and there was Mr. Williamson—and Jimmy, if you please. "I thought we'd never find you, Herb," says Jim, "but you see, when we fixed up that signal stuff I never thought you'd be so thoughtless as to lose the bunch at night instead of day and give those new-owls a chance to mix us up that way."

RADIO EXPLAINED BY E. H. LEWIS INSTRUCTOR NEW YORK, Y. M. C. A. RADIO SCHOOL

THE RECEPTION FACTOR OF A LOOP AERIAL.

It was stated in a previous article that the maximum potential difference between the two sides of a loop aerial exists when the plane of the loop is parallel with the direction of travel of the waves received. The value of any particular loop at a certain wave length depends upon a number of things all very closely related. The wave length range which can be covered in reception with any particular loop aerial also depends upon a number of related considerations. Since the vacuum tube is a potential operated device, maximum potential is desirable and should be aimed at in the design of a loop and the selection of associated apparatus. It has been found that the effectiveness of this type of aerial depends upon what is known as the reception factor, and which may be calculated by finding the product of the number of turns, its inductance and dividing the result by the product of the square of the wave length to be received times the total effective resistance. It is advisable to connect a variable condenser across the loop terminals in order to tune it, and the potential required for application to the vacuum tube is generally that across the condenser. When this is the case the number of turns of wire is the important consideration and should be made as large as possible. Since the inductance of the loop increases as the square of the number of turns

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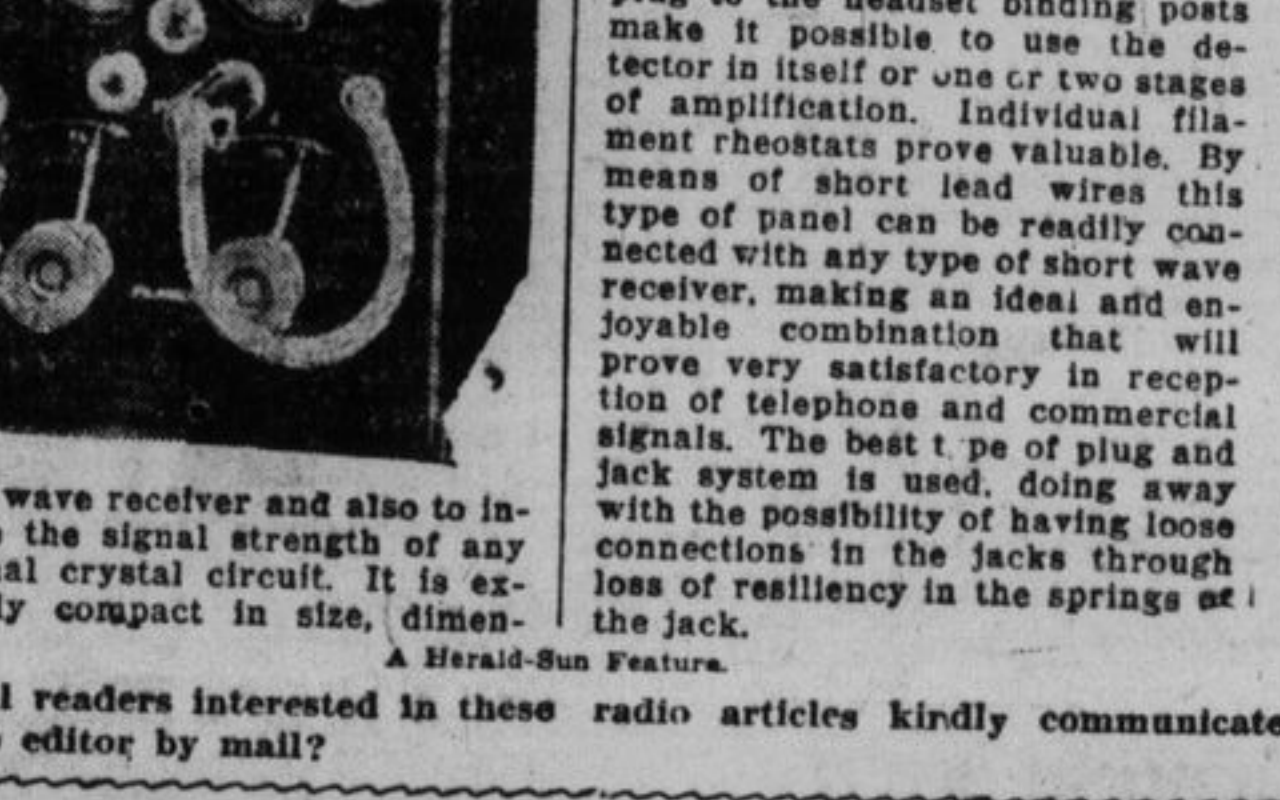
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To Recuperate Health, for a rest cure. Mr. Debs' health Terra Haute, Ind., July 14.—Eugene V. Debs left for Chicago out through receiving the constant stream of visitors at his home here.

APPARATUS AND DEVICES By RALPH BROWN, RADIO ENGINEER

AMPLIFIER WHICH WILL INCREASE CRYSTAL CIRCUIT STRENGTH

A new two step amplifier panel has made its appearance. It can be used in conjunction with any



short wave receiver and also to increase the signal strength of any external crystal circuit. It is extremely compact in size, dimensions being 5 1/2 inches long by 6 1/2 inches high by 8 inches deep. Operation of the audio frequency method of amplification of signal tone strength. The circuit functions quietly, and the absence of howling and noise so prevalent in poorly designed apparatus is greatly noticeable. Three jacks and a plug to the headset binding posts make it possible to use the detector in itself or one of the stages of amplification. Individual filament rheostats prove valuable. By means of short lead wires this type of panel can be readily connected with any type of short wave receiver, making an ideal and enjoyable combination that will prove very satisfactory in reception of telephones and commercial signals. The best type of plug and jack system used, going away with the possibility of having loose connections in the jacks through loss of resiliency in the springs at the jack.

Will readers interested in these radio articles kindly communicate with the editor by mail? most important problems and followed her advice implicitly. She was at liberty to express her opinions in diplomatic affairs, and was regarded as equal in power to her husband. Theodor was not only beautiful, clever, intellectual and powerful, but she was brave. At one time, because of her fearlessness and her power to influence others, she saved her husband's crown. It happened in this way. In 522, the great Nikka insurrection took place. This was the greatest crisis in the career of Justinian. The rebels were attacking the palace, and every one was making ready to flee—including the Emperor. But Theodora determined to stand her ground. She refused to leave

the palace, practically ordered Justinian not to depart, and kept the soldiers at their posts. As a result, the tide turned. The royal forces overcame the enemy and Justinian remained Emperor. Now, more than ever, was Theodora's power over her husband, the strength of the empire. To reward her for her act of heroism, which had done as much for the empire as the official oath of allegiance to Theodora. Until her death Theodora ruled the Roman empire as co-regent.

Autos! Fails to Pay For Gasoline; Fined \$25 Ogdensburg, N. Y., July 14.—James Brown, member of the crew of the government steamer Challoco, was fined \$25 in Watertown when he was found guilty of petty larceny for alleged failure to pay the owner of the Victor J. Tennant service station at Theresa the night of July 4th for five gallons of gasoline. He paid the fine. The arrest followed investigation of a report that while the owner of a car was receiving gasoline at the station the gasoline ignited and the car was wrecked. Mr. and Mrs. Tennant have started a joint action against the owner and driver of the automobile for damages to the station.

Reduction Does Not Affect Canadian Section Ottawa, July 14.—The reduction in wages in shop trades, which had been put into effect on United States railways, will not go into force on the Canadian section of the Michigan Central, pending an inquiry which is being conducted into the dispute between the company and its Canadian employees under the industrial dispute investigation act. Word to this effect was received by the minister of labor this morning in a letter by General Manager Shearer of the Michigan Central. Daniel B. Lyman, Adams, N. Y., had his right arm amputated between the elbow and wrist as a result of injuries received on his farm, when he was cut by the knives of a mowing machine. After being lost for three days and four nights in a fog on the Grand Banks, three fog loads of French fishermen were picked up recently by the French ship Jeanne D'Arc which reached Sydney, N. S., on Thursday. Canadian business failures for the first half of the year totalled 1,635, with liabilities of \$30,069,822, increases, respectively, of 70 and 28 per cent. over the first half of 1921.

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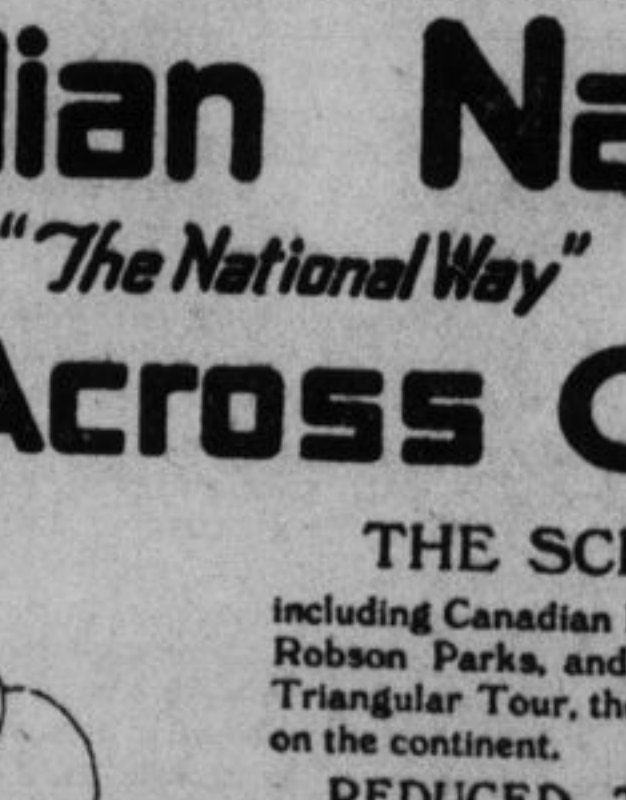
CUNARD ANCHOR ANCHOR-DONALDSON Montreal to Glasgow Aug. 11/Sept. 8/Oct. 6... Saturday Aug. 21/Sept. 19/Oct. 27... Cassandra Montreal to Liverpool July 29/Sept. 26/Oct. 23... Tyrhenia Aug. 19/Sept. 16/Oct. 13... Albania Sept. 16/Oct. 14/Nov. 11... Ausonia Montreal to Plymouth, Cherbourg and London July 22/Aug. 19/Sept. 16... Andania Aug. 9/Sept. 6/Oct. 12... Antonia N. Y. to Queenstown and Liverpool \*July 20/Aug. 17/Sept. 14... Scythia Aug. 8/Sept. 5/Oct. 12... Carmania Aug. 17/Sept. 14/Oct. 12... Carmania \*Sails from Boston, July 21st.

BOSTON TO LONDON DERRY LIVERPOOL AND GLASGOW AUG. 8 \*Cargo only to Glasgow. N. Y. to MEDITERRANEAN Oct. 26 (Cruise)... Tuscania Nov. 25 (Cruise)... Scythia Dec. 8 (Cruise)... Tuscania Feb. 19 (Cruise)... Caronia

OGLIVIE'S Insurance and Brokerage Office AGENT FOR EXCELSIOR LIFE, ROYAL EXCHANGE, FIRE, SICKNESS AND ACCIDENT, BURGLARY. G. HUNTER OGLIVIE 151 Wellington Street The steamer Noronic, which grounded in a fog on Thursday was released Friday morning and has arrived at the New Ontario dock, Sault Ste. Marie under her own steam

"WITS" OF HISTORY By Mark Stuyvesant. How Theodora Saved the Roman Empire. Perhaps it was Constantinople, or maybe it was Cyprus, where Theodora first saw the light of day half a thousand years after the birth of Christ. Historians differ. But we know that she was the daughter of Acacius, the bear-feeder at the Greek amphitheatre in Constantinople. When she was a very little girl she was sent on the stage to learn the art of acting. She was not successful as a dancer or singer. She had no aptitude for either of these arts. But she was successful in the performances called "mimes," where she showed her remarkable spirit, and in a charming and impudent way amused the thousands who flocked to the performances. Theodora became famous and travelled to all the large cities of the then known world, and returned to her home in Constantinople. Here she met Justinian, the patrician, the all-powerful nephew of Justinian, the Emperor, and who, although merely the nephew of the Emperor, was practically ruler. The young Justinian fell madly in love with the beautiful Theodora. His aunt, the Empress Euphemia, objected to the marriage strongly. This was only natural, for there was

an ancient law which forbade senators to marry women of the stage. However, Justinian did not give up Theodora. He waited until his aunt died, and then persuaded his uncle, the emperor, to consent to the marriage, and caused the law which had prohibited it to be repealed. The marriage proved a very happy one. Theodora was more than a beloved wife to Justinian. Her intellect was most unusual for a woman, and she soon acquired great influence over her husband, because of her excellent judgment in all matters of state. Justinian consulted her on the



Theodora Refused to Leave.

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