

MINIATURE BATTLESHIP BLOWN UP AND MINE EXPLOSION INTERESTING FEATURES IN TWO EXHIBITION PALACES

Amazing Voice Amplifier and Other Wonders of the World's Progress at the Great Panama-Pacific Canal Celebration—This Year of All Years to Take Marvel Journey to the Pacific Coast.

FROM every part of the world visitors are thronging to the great Exposition at San Francisco. The Exposition there is the most comprehensive and interesting of all universal exhibitions, and it will probably be the last to be held within the present generation. Now is the time to see it.

The Panama-Pacific International Exposition, which opened on Feb. 20 last, has charmed the millions who have already beheld the magic city by the Golden Gate.

The marvels of the universe are displayed in the vast exhibit palaces, affording the most comprehensive summary of the world's progress ever disclosed. Many of the exhibits are revolutionary in their character and mean as much to future generations as did the locomotive or telegraph when it was first introduced. The audio amplifier, for example, makes it possible for a man in New York city to deliver an address through the telephone to a large audience in San Francisco, 2,600 miles away.

Through the use of heat waves the intensity of the voice vibrations is increased to such an extent that, although the orator may deliver his address in a low voice into the telephone in New York, in San Francisco it is possible to increase the sound in volume sufficient to fill a large hall. On the other hand, the New York speaker's address may be distributed through telephone receiving disks attached to each chair in the hall in San Francisco. In one of the exhibit palaces visitors may, without charge, hear a man in New York read from the headlines of the New York newspapers. This performance begins in the Palace of Liberal Arts each day at 3 o'clock.

The amazing voice amplifier is but



TELEPHONE TWENTY-TWO FEET HIGH AT THE PANAMA-PACIFIC EXPOSITION. This giant telephone is shown in the Palace of Liberal Arts, Panama-Pacific International Exposition, San Francisco.

ner required months to cross the plains, with that of today, when the orator in New York may address his audience in San Francisco.

And there are many other developments as wonderful and as revolutionary, all revealing the trend of the world's progress in the arts, sciences and industries. If you are interested in mining, for example, beneath the floor of the vast Palace of Mines you may find a mine in operation, with its stoves and tunnels and shafts and compressed air drills. Watch a moment, and you may witness an explosion in the mine. A goat rams: an ambulance dashes up with a corps of rescuers provided with respiratory apparatus, and effects a rescue.

In the Palace of Machinery you may see a miniature battleship blown up by a miniature mine patterned after one of the latest types of the submarine mine. In the Palace of Education you will see classes of students engaged in their studies, and perhaps you may be able to see Mrs. Montessori, the celebrated Italian teacher, instructing classes of children. In the vast exhibit palaces and state buildings motion pictures are freely employed with this object in view. There are forty-three free cinematograph shows upon the Exposition grounds, and by the way, there is no charge to enter the exhibit palaces.

If you are interested in what the foreign nations have accomplished you have only to visit the marvelous displays of the European countries or of those of the Orient or South America, Canada or Australia. Among the French displays you may, if you wish, behold priceless works of art never before exhibited in America and which at the Exposition find sanctuary from the ravages of war.

LEARN HOW TO SWIM

In a Series of Ten Articles, Famous Expert Louis De B. Handley of the N. Y. A. C., Gives Advice to Beginners and Veterans.

Article No. 2.—The Trudgeon Stroke

By LOUIS DE B. HANDLEY. (Copyright, 1915, by American Press Association.)

IN the first article of this series it was shown how the nonswimmer could best master the rudiments of watermanship through the side stroke or the elementary crawl, and time has now come for him to select one of the advanced free style types and learn it.

He has the choice of the trudgeon, crawl and trudgeon-crawl, and we will speak today of the first named, leaving the other two for later treatment.

Broadly speaking, the trudgeon is a double overarm stroke, with a single kick to each complete drive of the two arms. Many advocate it for long distance swimming, and there is no doubt that it will prove eminently satisfactory for all round use, whether in competition or in pleasure bathing.

It is restful, yet speedy. The swimmer lies at ease on the water, without the least strain on any part of his body, the movements of arms and legs require very little exertion, and prac-

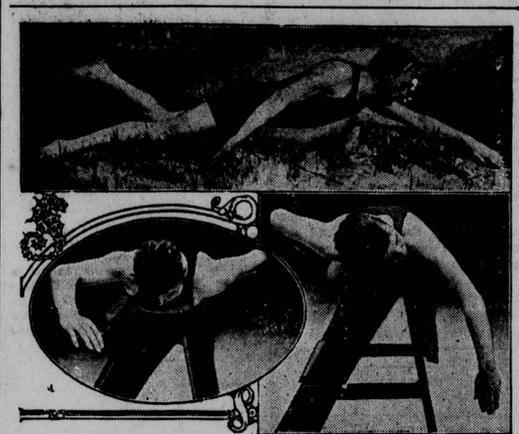
to again empty the lungs underwater, continuing the same process at intervals.

This identical exercise may be taken while stretched out flat on the water, either supported by floating device or hanging on to something, and not a few instructors also recommend pushing off face down from the side of a pool and erasing the while, then twisting the head, as told, to breathe deeply.

These methods will be found excellent, but should facilities for employing them not be at one's disposal it is possible to obtain the wanted results by going through the respiratory action at home in a washing bowl. The object is simply to get used to taking breath above the surface and exhaling underwater.

When this is accomplished the candidate is ready to bury the face and assume the position required by the modern strokes—namely horizontal, with shoulders a little higher than feet, but whole body forming a straight line, as in standing erect on tiptoe.

The arm movements of the trudgeon should vary slightly in accordance



Photos copyright by American Press Association.

Upper illustration shows position of the swimmer at the end of the top arm drive. Legs are fully opened and ready to snap together, performing scissor kick. Underarm is about "catch" six inches below water. Illustration on left shows arm action in trudgeon, crawl and trudgeon crawl. Left arm is pushing to full reach under water, with a slight downward slant, so that hand will be six or eight inches below the surface when ready for "catch." Right arm is completing its drive near the thigh. Illustration on right shows head twisted (not raised) to breathe in. Upper arm passing under the body in its drive, comfortably extended, underarm recovering above water with elbows raised.

THE TRUDGEON STROKE

with the characteristics of the individual on such points as length of reach and extension of arms in driving. All strain on the muscles must be avoided, so it will be obvious that while a swimmer with supple shoulders and limber joints may seek a long reach and drive with straight arm another whose shoulders and joints are stiffer, less free, will do better by shortening the stroke and carrying the elbow comfortably bent in pulling.

The leg drive used with the trudgeon is called a scissor kick and consists of a slow opening of the legs—front and back, as in walking, not lateral—and a quick, vigorous closing of them. The top leg is brought forward a little, almost straight, and toes pointing back, the under leg is bent nearly to kneeling position, but not quite; then the two are snapped together so that knees and feet brush. The kick is introduced at the end of the top arm drive—that is, the legs feet apart, relaxed, as this arm is about to complete its pull, and whip together just as it finishes at the thigh.

Common mistakes in performing the scissor kick are opening the legs too wide, drawing up the thighs in recovering; separating the knees laterally, and making the negative movements swiftly.

If the opening of the scissor is excessive or the thighs are drawn up in recovering a rather large resisting surface is presented to the water, and this offsets the benefit derived from the drive, so that part of the applied energy goes for naught. Separating the knees sideways also makes the kick less effective, because the forward pressure of the legs upon the wedges of water between them, and if they don't close near enough the two forces fail to combine, and the resulting impetus is greatly reduced. In opening the legs too rapidly a check is placed on the body, for the movement is one of resistance.

In swimming the trudgeon—or any stroke for the matter of that—one should aim at keeping the entire body from head to feet on the straight line of advance. This means that the head should not be raised or bent in breathing, but only twisted sideways from the neck; that the shoulders should not sway from side to side, but roll back and forth, as on an axle; that there should be no bending at the waist at any time.

There are several exercises by which this artificial mode of respiration may be practiced and acquired. For instance, the pupil can stand on bottom in waist deep water, lean over until his face is submerged, expel the air from his lungs through the nose, then twist (not lift) the head toward the shoulder he holds uppermost in swimming, until the mouth is above the surface, take a deep breath and face down once more.

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(Notice how the salt brings out the rich tobacco taste.) WEYMAN-BRUTON COMPANY, 50 Union Square, New York City BUY FROM DEALER OR SEND 10¢ STAMPS TO US

COLLEGE CREWS GETTING READY

Oarsmen of Many Universities Now Preparing for Supreme Test of Race

All the big college crews are now on the last stretch of their roving year. With their various dual regattas behind them they have stopped working over two mile courses and now are training for the four mile distances at Poughkeepsie and New London. This training grind will last for a few weeks.

An unprecedented thing has already happened in college rowing. For the first time in many, many years it looks as though this year's intercollegiate champion four mile crew will be the winner at New London instead of Poughkeepsie. There won't be any four mile race between the crews from these rival camps, but Yale and Harvard have already beaten Pennsylvania, Columbia and Cornell in the two mile distance in decisive fashion. Therefore the crew which wins at New London will probably be acclaimed the intercollegiate champion of the year unless Syracuse or Leland Stanford should win in decisive fashion on the Hudson. Neither of these crews has met Yale or Harvard, so a victory for Syracuse or the Californians would leave plenty of room for argument. But there isn't much prospect that Syracuse or Leland Stanford will win.

Right now the Yale and Harvard crews are apparently very evenly matched, and their meeting this month will attract great attention. The Harvard eight has engaged in two dual regattas. During Easter week the Crimson won easily from the Navy, though this was not considered a great achievement since the Navy hadn't won a race this year. Recently Harvard beat Cornell on Lake Cayuga in a race which stamped Harvard as a great crew. Harvard's margin was about the same as Yale's over the Cornell crew the week before.

Yale has likewise engaged in two races. During Easter week Yale won from Pennsylvania in decisive fashion. That race, though, was rowed in a blizzard, so the following week the Elms wanted their crew to give another demonstration of their prowess before they were willing to become too enthusiastic. The chance came in a three cornered race with Princeton and Cornell on Lake Carnegie. The Tigers had previously won every race in which they had started and had beaten Pennsylvania and Columbia. But Yale gave the Tigers a two length beating and won from Cornell by a quarter of a boat length.

The showing of the two crews means that they are very evenly matched and that there won't be much choice between them when they face the starter at New London. A good many rowing critics think that Yale is considerably stronger this year than last in spite of the many veterans who have been lost from the boat. One of the strongest factors in Yale's present strength is the confidence and enthusiasm the men enjoy. They have had enough racing experience this year to convince them that they can win, and Harvard is sure to find Yale a mighty tough opponent.

The defeat of the Cornell crew by both Yale and Harvard on successive Saturdays was foreshadowed by many experts. The results of these two races, however, should not be taken to mean that Cornell won't be a lot stronger at Poughkeepsie. Coach Courtney has made a number of radical changes in his boat within the past couple of weeks, and the promotion of Collier, last year's freshman stroke, to the position of pace maker for the varsity is likely to prove most beneficial. Last year Cornell's freshman stroke was pronounced one of the best in the country, and as good a judge as Vivian Nickalls, the Pennsylvania coach, declared that the Cornell youngsters had the making of one of the best stroke oars he had ever seen.

The Pennsylvania crew, which made

MANAGER ISBELL SAYS HE COULD USE SHOTGUNS.

Frank Isbell of the Des Moines club of the Western league is thinking of equipping his concers with shotguns. He believes a good two gauge better than a rifle for his purposes.

Issy was bothered with the way his players have been stealing bases on him. Red Andrews was sent out to the first base coaching line, and his instructions were not to let the runners go until the time was right.

A man got on in the first inning, and nobody was out.

The pitcher warmed up and threw a waste ball. The runner started for second base at top speed and was nailed by two yards.

Issy was furious. His rage lit up the bench like a torch.

"Why did you let that boob go down on the first ball?" he shouted as Andrews came in. "Why didn't you hold him?"

"I could if you let me have a shotgun," answered Andrews. "But I couldn't run out and hold him by main force. He would have beaten me anyway."

WILL TAKE HIKE IF BRAVES LOSE

Should the Boston Braves fall in their efforts to tear off another National league championship William N. Jarvis, a Boston baseball enthusiast, has agreed to walk from his home city to Philadelphia and return, having as his guardian a big mud turtle. Lucy Lee, Jarvis and a friend, Fred Woodland, made the bet, the latter standing to lose \$100 if the Braves land the bunting, while Jarvis will be compelled to walk the entire distance.

Lucy Lee is to ramble two in every five miles, being carried by her master during the other three miles. rather a poor showing in its races with Yale and at Princeton, is 25 per cent stronger on account of changes Coach Nickalls has made. The return to his old position at No. 5 of Garvin, the strongest man in last year's shell, and of Marcy, the 1914 stroke, has greatly encouraged the Quakers. Shoemaker, a former stroke oar, is also in this boat, so that the eight is stronger physically than it was a year ago. Coach Nickalls has always maintained that the crew was best at four miles.

Cubs May Sign College Star. Paul Des Jardien, the famous all round athlete, is said to have accepted the terms of the Chicago National league club, the signing of his contract to take place immediately after he graduates in June. Des Jardien is a big, powerful chap, with plenty of speed, and may be developed into a high class twirler.

Thorp Showing Up Well in Miners. Regular playing is helping Jim Thorpe. The former Giant is rapping the ball in great fashion for Jersey City.

A GOOD HOUSEHOLD SALVE Ordinary ailments and injuries are not of themselves serious, but infection or low vitality may make them dangerous. Don't neglect a cut, sore, bruise or hurt because it's small. Blood poison has resulted from a pin prick or scratch. For all such ailments Bucklen's Arnica Salve is excellent. It protects and heals—the hurt; is antiseptic, kills infection and prevents dangerous complications. Good for all Skin Blemishes, Pimples, Salt Rheum, Eczema. Get an original 2-ounce 25c box from your Drugist.

BAUMGARTNER IS FULL OF FADS

If George Baumgartner is all that is said of him, St. Louis is keeping up its reputation as a home for the eccentric baseball player. According to stories being told about the Browns' tall south-paw, he sings on street corners and takes up collections, refuses to sleep in a Pullman berth if there is an empty seat handy, has his face massaged every day, insists on being paid in one dollar bills and has other harmless but amusing peculiarities which place him in the "nut" class. However, it is doubtful whether George will ever



Photo by American Press Association.

achieve the fame for eccentricities possessed by the late Rube Waddell and Bugs Raymond.

Waddell, who died of tuberculosis in Texas last April, and Raymond, who was killed by a thrown brick in Chicago a year before, both spent a large part of their time in St. Louis. Rube pitched for the Browns after Connie Mack of the Athletics gave him up, and Bugs twirled for the Cardinals before he was traded to the Giants. Both were chock full of originality in the queer things they chose to perform, and always had somebody laughing at their antics. At the same time, sorry to say, they were easily led—in short a pair of boys who never grew up. Baumgartner may be the same general type, but he will have to go some to reach the heights of peculiarity his famous predecessors attained.

Herzog Laughs at the Giants. Charley Herzog says the Giants are done, and the Braves won't win the National league pennant either. The Braves, says Herzog, would make a good International league team. That is true enough, but Stallings' past experience in that league is no guarantee that they would win the pennant in it.

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