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Fishes and Submarines

By GARRETT P. SERVISS.

The sun-fish, often weighing a ton, which may afford hints to submarine designers.

Nature has made no animal oddity more curious than the sun fish, which might appropriately be called the half-fish, since it looks as if all the rear part of its body had been cut off close behind the central fins, leaving it entirely without a tail. Besides, it has nothing that by any stretch of fancy could be called a neck, the head merging into the trunk with a continuous outline. A very small gill-opening and a very little pectoral fin indicate the line of junction.

What might be taken for at least the root of a tail is really only an extension and combination of what in a normal fish would be posterior dorsal and ventral fins. The anterior dorsal and ventral fins are large and powerful, projecting like triangular wedges, the one above, the other below, just at the hind end of the cut-off body.

The arrangement is so singular that an English naturalist, W. P. Pyrcraft, suggests that the sun fish may offer a new model for inventors of submarine boats. He points out that the two fins just described must be practically the only propelling apparatus that the creature has, and that they probably act by a side-to-side, or "shuddering," motion—a very peculiar mechanical principle, especially when rapid movement is required.

Moreover, the two fins are capable of acting independently of one another, as is proved by the habit of the sun fish of traveling with its back fin projecting above the surface of the sea, and looking, when seen from front or rear, like a flag pole or perhaps the periscope of a submarine.



The tortoise-fish, which swims head down and which is regarded as affording few suggestions of value in regard to construction of submarines.

projecting above the surface of the sea, and looking, when seen from front or rear, like a flag pole or perhaps the periscope of a submarine.

Unpromising as its machinery appears, the sun-fish is a great diver. Evidently its strong ventral fin can be used in such a way as to plunge the body downward, whereupon the dorsal fin comes into play, and high speed can suddenly be developed. That the sun-fish is capable of very rapid motion when totally submerged is proven by the fact that it captures swift fish as the long-bodied silver ling.

The ordinary food of the sun-fish, or at least a favorite food, consists of jelly-fish and larval eels, the former of which it captures near the surface, and for this purpose it does not need to move rapidly, or even to submerge its dorsal fin. But the ling lives at depths of from 600 to 1,800 feet and must be chased through the darkness which prevails at so great a distance below the sea surface.

A full-grown sun-fish sometimes attains a length of eight feet and a weight of a ton. With its blunted form, its unwieldy appearance, and its singular means of propulsion, it certainly justifies Mr. Pyrcraft's suggestion, that submarine boat builders ought to study the secret of its mechanical efficiency, for the history of invention shows many instances of



The sea-horse, which travels through the water (head upward), driven by the vibrations of its back fin. The tail, which is a most efficient grasping organ, has no fin.

the most unexpected discoveries made by following the hints of nature when it departs from its ordinary lines.

Up Against It? Don't Give Up

By JOHN ANDERSON JAYNE.

How often, as you trudge your way up the hills of life do you hear the expression: "Well, I am right up against a stone wall. I cannot go any further. There's no longer any use in trying."

You've heard a friend of yours say that within the last twenty-four hours, haven't you? Perhaps you have even said the same yourself. Let's look at the proposition just for a moment. First, of recognizing that there are limitations to human achievements, limitations to human endurance. "No man can lift himself up by his own boot straps, when the boots are on his feet," has passed into a proverb. That's true, but if the man can get the straps out of his boots; and, that is another story.

What is a stone wall? A stone wall is a barrier erected by the ingenuity and art of man to improve the progress of others, or to prevent the encroachment of the public on private property.

But there never yet was built the stone wall that did not have a gate or a pair of bars in it somewhere. For the man on the inside, or for the man who erected the wall there is always a way of ingress or egress. There was never built a stone wall but had some weak place in it. What human ingenuity erects human ingenuity can pull down or break through.

Way back in the centuries, longer than the mind of man can recall, even with the page of history before him, the Chinese said: "We will build a wall around China," and build it they did. Broad, high and reaching far into the bowels of the earth they caused it to run over many a mountain and down through the peaceful valleys. It crossed rivers, and was not hindered in its progress by yawning chasms. When it was completed the people said:

"Now China is free from foreign encroachment. Now we can pursue the arts of peace, home building and commerce according to our own notions, with none to molest or make us afraid." And for years they did keep off the armies of the aliens, but in the progress of the years the wall began to crumble just a little. Here and there appeared a crack, then a crevice, until in the year 1900 the Chinese war, together with Chinese exclusiveness, practically fell before the allied armies of the great world powers.

Man had built the wall and man had torn down the wall. It took a long time and determined effort, but

at last it came down.

The ancient city of Babylon, so the historians tell us, was built on both banks of the splendid river Euphrates. It was a city of power, splendor and immense wealth. Because of its location and strategic point it was coveted greatly by the kings of surrounding and faraway nations. To protect the city a great wall, 335 feet high, was erected, circling the entire city. One night, while Belshazzar, oldest son of King Nabu-Niggib, was enjoying the sumptuous banquet, the Persians, under Darius, diverted the waters of the river from their course by means of an artificial channel, and entered the city, dry shod. The Persians broke down the wall and threw it into the river, together with the temple of

TODAY'S DAINTIEST DISH COOKERY IS BECOMING A NOBLE SCIENCE



Banana Temptation

By CONSTANCE CLARKE.

If possible the iceed drinks and fancy ices this summer seem more refreshing than ever. What could be more enjoyable than big, luscious cherries served with frozen cream, bananas and candied ginger.

Peel six oranges very thinly and put the peels in a stewpan with two cups of milk or single cream, and one-half cup of sugar; boil together for about ten minutes, then mix in six raw yolks of eggs, and stir over the fire until it thickens, but do not allow it to boil. Then strain through a fine sieve, and when cool add the strained juice from the six oranges; pour the custard into the freezer and freeze to the consistency of a batter, when one cup of whipped double cream should be added; then continue the freezing until the custard is dry. Fill dishes with the frozen cream, and garnish the top of each with quarters of bananas, cherries and crystallized ginger. (Tomorrow—Toast for Breakfast.)

GOLF TOURNEYS ATTRACT WOMEN

Many Are Practicing for the Play Next Week on Lake Mahawa Course.

MRS. SPRAGUE WINS HERE

By MELLIFICIA—August 10.

Omaha women are taking an interest in the golf play now under way at the Council Bluffs Rowing association. Twenty women of the association are qualifying for the race for the championship of the club in the women's golf tournament which will begin next Wednesday. Late in the afternoon the hardened ones come strolling in comparing scores and filling out cards. Both Mrs. F. J. Despecher and Mrs. B. O. Bruington turned in scores of fifty for yesterday afternoon's play, a very good score, because of the difficulty of the course. At the Seymour lake tournament Tuesday Mrs. E. H. Sprague made a score of forty-seven, thus winning first prize, and Mrs. Despecher won second place with a count of fifty-four.

W. A. Maurer of Council Bluffs has offered a beautiful silver trophy to the winner of the women's tournament at the Boat Club. The woman who becomes the proud possessor of this cup must have her name engraved on it for three years as a winner of the club's tournament. For a former cup, offered by Mr. Maurer, the women played ten years and not until Mrs. Ed Wickham had been the victor three times did it leave its display shelf permanently.

At Happy Hollow Club.

Mrs. Cuthbert Vincent was hostess at the luncheon given by the Scottish Rite Woman's club at Happy Hollow today. Covers were laid for sixty guests.

Mrs. Palmer Findley had luncheon for six at the club today. For Miss Katherine McClure of Hollywood, Cal., Miss Ruth Purcell of Hampton, Ia., and Miss Helen Masten of Kansas City, Miss Beulah Clark entertained at luncheon at Happy Hollow club today. The guests were seated at a round table decorated with coreopsis and place cards to match. In addition to the guests of honor those present were:

- Misses—Florence Jenks, Gertrude Metz, Louise Bailey, Elizabeth Sturtevant, Margaretta Grimm, Dorothy Balbach.

For Visiting Girls.

For Miss Ruth Purcell of Hampton, Ia., Miss Kate Sherrard of Wisconsin and Miss Helen Masten of Kansas City a number of affairs are planned before their departure to their respective homes on Friday, next week. Friday of this week Miss Eleanor McGilton will entertain at luncheon for them and their hostesses, Miss Florence Jenks and Miss Louise Bailey. Saturday a picnic to Valley is in store.

On Monday Miss Berta Fern Clark of Council Bluffs, another club friend, will entertain for them. Tuesday Miss Ethel Magney will give a luncheon at the Fontenelle for the guests. Wednesday Miss Louise Bailey will give a breakfast. Thursday morning they will go out to the Carter Lake club to bowl, swim and play tennis.

At the Field Club.

Mrs. E. Carson Abbott entertained at luncheon at the Field club today for her sister, Miss Kathleen Carrig, of New York, who is spending the summer with her. Garden flowers were used on the table and the favors formed a toy menagerie. The afternoon was spent at bridge. Those present were:

- Madames—William Hunt, Frank Shotwell, Charles Burmeister, W. H. Leary of Katherine LaBarth, Earl Lake City, Frank Jumper, Miss Estella Jensen.

At the Country Club.

Additional reservations for the Saturday evening dinner-dance at the Country club have been made by H. W. Binder for fourteen, by A. V. Kinsler for fourteen and by W. A. C. Johnson for eight.

Wedding Announcement.

The marriage of Mr. Nathan Simon of this city and Miss Rita Marcus of Kansas City took place there last evening, according to a telegram received by Omaha friends. The newly married couple are expected Friday morning to make their home in Omaha.

Personal Mention.

Mr. and Mrs. Edwin R. Perfect will leave this evening for a trip to Minneapolis, Duluth and Georgian bay. Mrs. B. A. Simon has returned from a three weeks' stay at Colfax Springs.

Mr. and Mrs. W. A. Yonson are spending two weeks at The Inn at Lake Okoboji.

Mrs. Robert Morehead and Miss Angela Hoctor have gone to Dunlap, Ia., for a two weeks' visit and motor trip.

Miss Marie Riley, who is traveling in the east with Mr. and Mrs. Byron Smith, spent this week in Toronto and expects to be in New York Sunday.

Mr. and Mrs. Raymond G. Young have returned from a trip to Washington, D. C.; Atlantic City and Buffalo, N. Y. They were gone about a month.

Miss Ruth Hurst of Louisville, Ky., who has been spending some time with Miss Eloise Green, will leave this evening for Chicago, where she will visit a few days before returning to her home.

Mr. and Mrs. A. L. Green and Miss Eloise will leave tomorrow evening for a motor trip through Minnesota to St. Paul. From there they will go by boat to Clinton, where they will visit some time before going to Chicago to resume their motor trip. They will be met in Chicago and accompanied on their return to Omaha by Mrs. Green's parents, Mr. and Mrs. Ed B. Beyfogie, of Louisville, Ky.

Parties at Bellevue.

Mr. E. H. Bangert will entertain at a swimming party and chicken dinner at Bellevue this evening for Dr. Daniel Phelan of Montreal, who is visit-

ing his sister, Mrs. M. Shirley. Among those who will be included in the party are:

- Doctors and Madames—B. A. McDermott, I. C. Wood, Dr. Danial Phelan, Mr. H. C. Nicholson entertained at a dinner and swimming party at Bellevue college Monday evening and Thursday evening, having reservations for twenty and eight. Others who have entertained at the college during the week are Mrs. E. R. Wilson, Mrs. W. S. Gibbs, Mr. J. F. Paine, Mrs. Frank Prucka, Miss Alexander and Mrs. T. L. Roberts.

At Carter Lake Club.

Wednesday evening ninety cottagers took dinner at the club. During the evening they were entertained by the Summer Girls' Minstrels. Mrs. S. Rainbolt entertained twelve guests at luncheon today. Mrs. W. C. Crosby entertained at a bridge luncheon Wednesday noon. Covers were laid for eight.

Law Party.

The M. K. club entertained at a lawn party at the home of Mr. and Mrs. R. H. Secord last evening, at which the following persons were present:

- Misses—Eva Graham, Mary von Collins, Sarah White, Renie Swanson, Sarah Moffat, Carrie Given, Mrs. W. D. Thrane, Porter Forcade, H. M. Givens, Carl Anderson, W. D. Thrane, Frank Henle, Howard Agnew, C. P. Secord, H. E. Taylor, R. H. Secord.

Picnieres Past.

Miss Arlene Andelfinger entertained the members of the Evi-So

club at supper Tuesday evening at her home. Those present were:

- Misses—Gladys Dreibus, Marguerite Mohrman, Gertrude Rylen, Reva Groat, Helen Welch, Kather Rylen, Hazel Johnson.

In and Out of the Bee Hive.

Miss Lillian Henderson, daughter of Mr. and Mrs. Lewis Henderson, and Miss Mildred Shoberg returned home Monday from a four weeks' visit with relatives at Gothenburg, Neb.

County and State W. C. T. U. Meetings Here Next Month

Both state and county Woman's Christian Temperance union conventions will be entertained in Omaha next month. The county meeting will be held September 1 in a South Side church and the state meeting later in the month, probably in the First Congregational church.

Mrs. N. J. McKittrick was re-elected president of the Omaha Woman's Christian Temperance union for the fourth term at a meeting held Wednesday at the Young Men's Christian association. Mrs. Fannie Manning, Mrs. Flora Hoffman and Mrs. Goodrich are the vice presidents; Mrs. E. P. Sweeley, recording secretary; Mrs. W. T. Graham, corresponding secretary, and Mrs. Daisy Dunlop, treasurer.

The society doubled its membership during the last year, 300 being the present number.

REV. "BILLY" SUNDAY TO SPEAK IN OMAHA

Comes to Fulfill Promise to Assist Dry Federation in its Campaign in State

IN STATE FOR THREE DAYS

Rev. William A. Sunday will be in Omaha Sunday, August 20, for three meetings at the Muny Auditorium, under the auspices of the Dry Federation. The meetings will be at 10 a. m. and 2 and 8 p. m.

He will deliver his famous sermon of "Booze."

The coming of "Billy" Sunday is the fulfillment of a promise made the committee when he was conducting his meetings in Omaha that he would return and hold some meetings in Nebraska this fall to assist the Dry Federation in its work.

He will speak at Lincoln Saturday, August 19, at the big Epworth league pavilion and at some other points in the state, to be determined later. It is arranged to have him devote three days to meetings in Nebraska.

Dr. and Mrs. W. H. Callias have gone to Hood River, Ore., where "Billy" and "Ma" have been spending the summer on their ranch, to see that the evangelist starts in time to fill his engagements in Nebraska. It is planned to have Mr. Sunday reach Nebraska August 17 and the committee is now at work arranging the other dates for meetings.

Once Each Year KILPATRICK'S Has An Hour Sale when goods are sold without regard to Cash or Profit

Always odds and ends of regular stock left over from seasonal selling.

Every hour, starting Friday at 9 a. m., exciting sales in various departments. Windows filled with the goods have drawn great crowds. Looks as if the excitement and attendance would be greater than ever this year.

YOU will be ODD if you fail to be present promptly on the hour

If Sary Gamp was alive, and in Omaha, what tales she could tell about her friend Mrs. Harris— SHE would surely attend this sale.

Thomas Kilpatrick Co