

VOL. 1. NO. 1

WOODS HOLE, MASS., WEDNESDAY, JULY 21,1926

2.

## **ACUSHNET'S BOATS** SAVE FREIGHTER'S CREW

#### Coal Laden Meteor, Ashore Off Block Island In High Sea, Sinks To Bottom In 15 Minutes

On Sunday, July 11, unknown to most of our scientific inhabitants, Woods Hole witnessed the rescue of a shipwrecked crew. At 11:30 in the morning the Acushnet, at dock here, picked up an S. O. S. from the S. S. Meteor which had struck on the rocks in the thick fog and heavy seas off Block Island. The Acushnet immediately put out. breaking all speed limits through the fog, and cruised around for position near the wrecked vessel, waiting for the fog to lift. Coast Guard Patrol Boat No.

229 was standing by the freighter during the afternoon but was prevented from going alongside by high seas.

The twenty-three members of the crew had been without food all day, since only the superstructure of the ship remained above water. Near midnight the fog lifted and the men were taken aboard the Acushnet and brought to Woods Hole and later taken to Boston.

The quartermaster, when interviewed said, "It wasn't anything much to write about. Nothing much happened!". Of course not! What's a wreck more or less. Nothing ever happens at Woods Hole!

## **DR. MORGAN** HONORED

"Genetics and the Physiolo-gy of Development" is the title of the fifth William Thompson Sedgwich Memorial lecture to be delivered by Dr. T. H. Morgan in the laboratory auditorium at eight o'clock on Tuesday evening, July 27. The public is cordially invited to attend.

This honor is annually conferred on "men of disting-uished imminence in some subject within the scope of biolo-gy and public health." The lecturer is chosen each year by a committee composed of six of the leading men in these sciences. Dr. Gary N. Calkins is a member of this committee.

## AOZOTORP

2?

Dirace at M. B. L. is the Floto-the considerable plant which had satrifice of time and enort in zoology Lab., for the hunt is on. On June 29th, the class of '19 was introduced to what Prof. Gary N. Calkins, the Director, termed as the "Beginning of six weeks of fun". In the main of give plant which had satrifice of time and enort in brought about a state of basic ture efficiency of the laboratory. It has all been a gradual, de-was easiest to persuade some woods Hole resident to give you the course seems to consist of a ed group which has grown larger a room in her home. It was al-continuous, relentless chase of the poor defenceless Protozoa in the region of Woods Hole.

In addition to the Director, the staff of the Protozoology instruction includes Dr. Mary S. MacDougall and Dr. Wool-ford B. Baker. Every morning,

(Continued on Page 7) .

LIVING CONDITIONS FOR **LABORATORY WORKERS** 

brick laboratory, with adequate whatever seemed necessary to library, and splendid facilities further the development of bet-If hunting is classed as one and service for a large group of ter opportunities for workers in of the sports, then the sportiest investiators, supplemented by the laboratory was done with place at M. B. L. is the Proto-

## **BIOLOGY AND** EXPERIMENTATION intruder.

nesday, July 21, weather per-mitting, the class sets out on the good ship 'Cayadetta' at 11:45 for Hadley Harbor, on a picnic. On Friday afternoon. the 23rd, tea will be served at the M. B. L. Club by the Proto-counts of the currents and counts of the currents and counts of the currents and counts of the currents and currents of research and currents of the con-insistent. These associations gave a chance for mutual endur-ance. Indeed, valuable discover-insistent. These associations gave a chance for mutual endur-ance. Indeed, valuable discover-insistent. The set associations the currents and friendly capacities in the other zoology class. Come and counter currents of research and friendly capacities in the other fellow. This is at the bottom of dispute which have led to the much good understanding now common between town and the Saturday lectures is that modern outlook and opportuni-Dr. Calkins expects to sail for ties for new experimentation Europe about August 1st, a was depicted by Dr. Jennings so week before the formal closing of the course; and in order to make his lectures complete in one-hour doses, there must be six each week. Perhaps this extra lecture has been the cause of the unusual impetus of plexities of the background in the attack on the Protozoa in which the problems of today are the laboratory, for there seems set and yet see with the lecturer's in a home was remembered as to be a condition wherein it is clear headed vision the hopeful an event. hard to get the class out of the paths forward now opening laboratory and away from their from what might seem a tangled

resulting from so much time in the laboratory sometimes leads to dagger-looks for some in-dividuals from others who have the usual desire to swim and play tennis and so forth, as a raise in the course require-ments seems imminent. Perhaps this speed is somenot extreme.

H. McE. K.

The completion of the new with similar aims were welcomed. keeping out of the deal if he were spared responsibility of en-tertaining or being bored by the

TEN CENTS

Last Friday evening at eight clock Professor H. S. Jennings ford B. Baker. Every morning. including Saturday, Dr. Calkins lectures for one hour, and then the fun of chasing begins. But that kind is not the only kind of fun indulged in, as may be seen, for example, by the schedule of this week: on Wed-nesday, July 21, weather per-mitting, the class sets out on mitting, the class sets out on ticluding Saturday, Dr. Calkins o'clock Professor H. S. Jennings, a chance he might be a pleasant lodger even though a "bug hunter". Sometimes a prized suite was given up to a favorite lodger, and even a bath was per-mitted, if there was a bathroom, when a naturalist became very insistent. They took friendly capacities in the other fellow. This is at the bottom of

But this simple irresponsible state was gradually affected by the inevitable biological results laboratory and away from their microscopes. Instead of hav-ing as a goal, "Recognizable drawings of 100 different species," some members of the class seem to have adopted 1000 as their quota. The speed resulting from so much time in the laboratory sometimes leads

(Continued in Next Issue)

#### ? ? 2 2 S 2 Issued under the auspices of the M. B. L. Club.

- Sampson.....Scc.-Treas. Florence Tinkham. Chair. House Com.

#### **Editorial Staff**

Associate Editors: Helen H. Cat- money or time, and who do not tell, E. R. Clark, L. B. Clark, Anna C. have cars at our disposal, the Dunlap, Margaret Speidel.

X. Y. Hollander. . Anions and Snoitac Cecile Conklin......Embroyos W. V. Craghton.....Pieces 

Committee of the Marine Bio- we spent the evening at one of logical Laboratory sanctioned the places on the Cape will re-the proposal for my birth. It main untouched. The orchestra, was not a case of artificial activ- refreshments and the opportuniation for perfectly natural condi-tions initiated my development. members of the Club will make It was the actual need of an the evening more fun than one agent within the institution to spent outside of Woods Hole. diseminate news among its Thus these dances will be of workers and to co-ordinate the benefit from the point of view varied activities of the labora- of our work, for talking to peo-

certain qualities. Unity, organi- working in research, or those zation and differentiation were students planning to take up this incorporated into my amor-ing had a natural origin I may tunity of becoming acquainted look forward to normal growth with their fellow workers. The and development, and ever in- most useful thing that our Club creasing usefulness.

must be carefully nurtured and at least make it possible for encouraged. My diet must be every member of the Club to judiciously chosen so as to be meet every other member. easily digested and properly appreciated. But give me some FOREIGN BOTANIST substanial food.

I am weak and helpless and by force of circumstances I may in some ways lack individuality. Niles Svedelius, Professor of Botany at the University of Lund in Switzerland, and one of the certain natural tendencies, but it is essential for continued exis-tence that I adapt myself to my to attend the International Botenvironment. It is to be hoped that in the course of evolution my environment will undergo the that in the course of evolution my environment will undergo the necessary modifications to tween that time and the opening make my life a little more simple of the Congress on Aug. 23 he and useful

These introductory para-graphs were respectfully sub-mitted to a representative of the Dr. B. M. Duggar, p "external factors" but we were of plant physiology at the Unigood-naturedly told that it was versity of Missouri and physio-up to us to conduct our little logist to the Missouri Botanical paper as we saw fit; and that Garden, has been elected a memthey, (referring to those con- ber and chairman pro-tem, of cerned) were quite capable of the board of trustees of the taking care of themselves.

The dance at the M. B. L. Club on Saturday evening will fill a long felt want. Many of us do not care to work on Saturday evening and are occassionally

the number of couples that each week seek amusement outside of Marion Rea..... Chair. Social Com. Woods Hole, but it is perhaps greater than is commonly supposed. For those of us who do

Ware Cattell...... Managing Editor not have an unlimited amount of plans for the inauguration of the Saturday night dances are

> fits in with our schedule of work and leave at the time that suits workers outside our own group, and greatly extend our circle of

acquaintances. And last but not I was officially born on Mon-least, the five dollar bill that day July 12, when the Executive would have been consumed had

tory. At this very early stage in my life I am naturally lacking in is helpful and inspiring. Those can do is to use its ingenuity in But I am only an infant and bringing about conditions that it

## TO LECTURE

Niles Svedelius, Professor of will visit Woods Hole and deliver a lecture. Anyone interested is

cordially invited to attend Pro-

Dr. B. M. Duggar, professor Bermuda Biologcal Station.

## JELLY FISH

Sure, and we are the "bud-ding" invertebrates! When Give Actual Screen Demonstrapuzzlea about the best way to our source of preliminary information, the catalogue, says, "The course is designed for those who have had previous with the habits and general ecological relations of the animals studied"-well, they simply haven't told the half of it, parture in emphasis on demonnot an iota of the work and the stration as compared to descripfun we're having. And for tion. Dr. Chambers discussed the some reason they forgot to say effects of exposing amoeba and from all the rungs of the intel- of the four salts commonly found must needs approach the sup- organisms. ply desk with the humiliating admission, "I'm so sorry but I effects were shown for chormesmashed it!"

Such a time as we had routing out long fingered suctoria by photographs and diagrams, and spineless amoebae for J. furnishing pictures of proto-A. Dawson, erstwhile brilliant plasmie structure and behavior performer, at a sport which of quite definite nature. demands every spare minute immediately behind the invert- gave a very exceptionally sucebrate lab. We blush to admit it, but it actually took some of us two whole days to convince ourselves that diatoms, even though they did exhibit the

#### (Continued on Page 8)

#### **EVENING LECTURES** Auditorium 8:00 P. M.

Tuesday, July 20. Dr. W. O. Fenn, Rochester University School of Medicine. "Some of the Problems Concerned With the Shortening of Muscles.'

Friday, July 23. Dr. E. Witschi, Basel University, Switzerland. "Heredity and Environment in Sex Determination.'

Tuesday, July 27. The William Thompson Memorial Ity of the Yale Graduate School. Hunt Morgan, Columbia University. Physiology of Development.' Friday, July 30 Prof. L. Michaels, Johns Hopkins Unibranes."

#### Special Evening Lecture Auditorium 8:00 P. M.

Thursday, July 22. Prof. W.

#### DRS. CHAMBERS AND REZNIKOFF ENTERTAIN

## tion of Micro-disection to Enthusiastic Audience

On Friday evening Dr. Chamtraining in zoology and more bers gave an interesting lecture especially for those having a entitled; "Some Aspects of the professional interest in the subject. It will consist of lab-oratory and field work with lectures, given with the view a trancelucent screen was given to familiarize the student, not by the actual process of manionly with the anatomy, but also pulating an amioba with needles

This lecture was quite a dethat we have representatives certain marine ova to the action lectual ladder; from P.H.D.'s in sea water and in blood by imwhose efficiency and scientific mersing in various solutions; enthusiasm are astounding to and these results were compared undergraduates who still smash with reactions produced by miocoverslips and specimens in in- roinjections of the same solufantile abandon, so that they tions into the substance of the

> Some interesting contrasts of somes and Cytoplasm. The points were brought out chiefly

Following this, the lecturer cessful demonstration in projections through the new Leitz combined macro and micro-projection apparatus of actual experiments made by Dr. Reznikmost graceful locomotion possi- off on living amoeba with the new type Chambers-Leitz Micromanipulater. These demonstra-tions of the behavior of living cells under experiment to 500 people furnished a novel and much applauded departure.

#### **RESEARCH BY FOREIGN BIOLOGISTS AT YALE**

Six foreign scholars will take up residence at Yale University next year to conduct research under the direction of the facu-Lecture, delivered by Thomas These include five research fellows of the International Educa-"Genetics and the tion Board, Dr. Pasquale Pasquini, of the University of Rome, Italy; Dr. Stanislaw Hiller, of Cracow, Poland; Dr. Ernest Wolf, of the University of Heiversity. "The Properties of Wolf, of the University of Hei-Certain Artificial Membranes delberg, Germany; Dr. B. M. Bergerson, of the University of Oslo, Norway, and Dr. Fritz E. Lehmann, of the University of Freiburg, Germany, who have been appointed to carry on re-Patten, Dartmouth College. search under the direction of Hunting for Missing Links in Spitzberger." Illustrated.

Hague, Florence, asst. prof. phys., Oregon Agr. Rock. North.

Hance, R. T., assoc., Rockefeller Institute. Br. 208. Hartline, H. K., grad. stud. phys., Hopkins Med. Br. 229. Harnly, Marie L., lab. assist. to Dr.

Morgan, Columbia. Br. 321. Harnly, M. H., grad. stud. zool., Columbia. Br. 314.

Harvey, E. N., prof. phys., Princeton. Br. 116.

Hayden, Margaret A., asst. prof. zool., Wellesley. O. M. 5. Haynes, Rachel, histologist, Com-mission Stand. Biol. Stains. O. M.

Base.
Haywood, Charlotte,. grad, stud.
zool., Pennsylvania. Rock. West.
Hazen, T. E., asst. prof. bot., Columbia. Bot. 24.

Heilbrunn, L. V., asst. prof. zool., Michigan. Br. 330.

Hemmeter, J. C., prof. clin. med., Maryland, L. 33. Hess, Olga T., grad, stud., Brown. O. M. Base. Hess, Walter N., prof. zool., De

Pauw. Br. Pauw. Br. Hickman, Jane F., grad. stud. zool., Missouri. Br. 217.

Hinricks, Marie A., Nat. Res. fellow, Chicago. Br. 335.

Hisaw, F. L., asst. prof. zool., Wis-consin. L. 26.

consin. L. 25,
Hogben, L., assoc. prof. zool., Mc-Gill. Br. 213.
Holt, L. E., assoc. in pedratrics, Hopkins Hosp. L. 29.
Hoskins, Mrs. M. M., asst. prof. anat. N. Y. Univ. Col. Dent. Br. 305.

Howlands, Ruth B., asst. prof. biol., N. Y. Univ. Br. 315.
 Hughes, T. P., Ass't. Rockerfeller

Institute.
Hulpicu, H. R., grad. stud. zool., Hopkins.' Br. 312.
Humphreys, G. H., grad. stud. bio. chem., Harvard Med. Br. 108.
Inman, O. L., prof. biol., Antioch. Br. 114.
Harian assage phys. Rockefel.

Jr. 114.
Irwin, Marion, assoc. phys., Rockefeller Institute. Br. 207.
Jacobs, M. H., prof. zool., Pennsylvania. Br. 102.
Jennings, H. S., prof. zool., Hopkins. Br. 304.

Johnson, Helen R., asst. biol., Brown.

Johnson, H. H., instr. biol., Col. City N. Y. O. M. Base. Just, E. E., prof. zool., Howard. Br. 228.

Kahn, M. C., instr. hygiene, Cornell Med. Br. 121.

Med. Br. 121.
Kapp, Eleanor M., grad. stud. phys., Pennsylvania. Rock. West.
Karns, Hilda E. teach. biol., Jr. High Sch. (N. J.) Br. 122. D.
Keefe, A. M., prof. biol., St. Nor-beck's (Wis.). Bot. 5.
Knower, H. M., prof. anat., Alabama. Br. 115

Knowlton, F. P., prof. phys., Syra-cuse Med. Br. 106. Kochring, Vera, instr. zool., Smith. Br. 217.

Br. 217. Lancefield, D. E., asst. prof. zool., Columbia. Br. 1. Lancefield, Rebecca C., asst., Hosp. Rockefeller Institute. Br. 206. Landis, E. M., grad. stud. phys., Pennsylvania. Br. 309. Lewis, I. F., prof. biol., Virginia. Bot. 26. Lillie, F. R., prof. zool., Chicago. Br. 101.

Lillie, F. R., prof. zool., Chicago. Br. 101. Lillie, R. S., prof. phys., Chicago. Br. 326.

Institute.

Br. 115.

zool.,

phys

M.

Base.

# **DIRECTORY FOR 1926**

#### Abbreviations

Botany Building.....Bot. Brick Building ..... Br. 

The abbreviations used for the same as those incorporated in "American Men of Science." Thus, Thus, taking Dr. Amberson as an example, his position during the regular college year is assistant professor of physiology at the University of Penn-sylvania. His work at the laboratory is carried out in the Brick Building in Room 309.

#### THE STAFF

Lillie, F. R., Director, prof. emb., chair. dept. zool., Chicago. Jacobs, M. H., Associate Director, prof. phys., Pennsylvania.

ZOOLOGY

#### I. Investigation

Calkins, G. N., prof. protozool., Columbia.

Conklin, E. G., prof. zool., Princeton (absent)

Grave, C., prof. zool., Washington (St. Louis).

Jennings, H. S., prof. zool., Hopkins. Lillie, F. R., prof. of emb., Chicago. McClung, C. E., prof. zool., Penns-

sylvania.

Mast, S. O., prof. zool., Hopkins. Morgan, T. H., prof. expt. zool., Columbia.

Parker, G. H., prof. zool., Harvard. (absent).

Wilson, E. B., prof. zool. ,Columbia.

II. Instruction

Dawson, J. A., instruction Martin, E. A., asst. prof. zool., Col. City, N. Y. Cole, E. C., asst. prof. zool., Williams Bennitt, R. instr. biol., Tufts. Bissonnette, T. H., prof. biol., Twisite.

Trinity.

Grant, Madeleine P., asst. prof. zool., Mount Holyoke.

Willier, B. H., asst. prof. zool., Chicago.

D. B., assoc. prof. biol., Young,

Arizona. Clullen, Helen, lab. asst. in McClullen, Woods Hole course.

PROTOZOOLOGY

I. Investigation See Zoology

#### II. Instruction

Calkins, G. N., prof. protozool., Co-

lumbia.

Baker, W. B., assoc. prof. biol., Emory.

MacDougall, Mary S., prof. zool., Agnes Scott.

#### EMBRYOLOGY

I. Investigation

#### See Zoology

11. Instruction

Goodrich, H. B., prof. biol., Wesleyan. Grave, B. H., prof. biol., Wabash. Packard, C., assoc., Inst. Cancer Res.,

Columbia. Plough, H. H., prof. biol., Amherst. Rogers, C. G., prof. comp. phys.,

Öberlin. **PHYSIOLOGY** 

#### I. Investigation

Investigation
Bradley, H. C., prof. phys. chem., Wisconsin (absent).
Garrey, W. E., prof. phys., Vander-bilt Med. (absent).
Lillie, R. S., prof. gen. phys., Chicago Mathews, A. P., prof. biochem., Cin-cinnati.

**11. Instruction** 

Fenn, W. O., prof. phys., Rochester. Knowlton, F. P., prof. phys., Syracuse. Hartline, H. K., asst. in Woods Hole

course. BOTANY

#### 1. Investigation

Dugger, B. M., prof. plant phys., Washington (St. Louis). Allen, C. E., prof. bot., Wisconsin

(absent).

Brooks, S. C., Dept. Public Health, Washington, D. C. Robbins, W. J., prof. bot., Missouri.

(absent)

Schramm, J. R., Editor-in-Unici, Biological Abstracts, Pennsylvania. (absent)

#### II. Instruction

Lewis, I. F., prof. biol., Virginia.
Hazen, T. E., asst. prof. bot., Barnard.

Taylor, W. R., asst. prof. bot., Pennsylvania.

#### INVESTIGATORS

Amberson, W. R., asst. prof. phys., Pennsylvania, Br. 309. Anderson, Pearl, inst. zool., Mary-O. M. Base. land.

Armstrong, P., instr. anat., Cornell Med. Br. 318.
Avery, Mrs. M. S., bacteriologist, Am. Univ. Beirut, Syria. Br. 111.
Avery, B. F., prof. anat., Am. Univ. Beirut, Syria. Br. 111.
Arvo, Impi, res. asst. zool., Union. Br. 343.
Baker, H. N., grad stud zool

Br. 343. Baker, H. N.,. grad. stud. zool., Hopkins. O. M. Base. Baker, W. B., assoc. prof. biol., Emory. O. M. 21. Barth, L. G., grad. asst. biol., Michi-gan. Br. 217. Backerville Managerst asst prof.

Baskerville, Margaret, asst. prof. phys., geo. med. Bennitt, . R., instr. biol., Tufts. O.

Bennitt, R., instr. biol., Tufts. O. M. 25.
Benson, Gertrude C., grad. stud. zool., Michigan. Br. 217.
Bergner, A. Dorothy, grad. stud. zool., Columbia. Br. 314.
Bigelow, R. P., prof. zool., Mass., Inst. Tech. Br. 340.
Bissonette, T. H., prof. biol., Trinity. O. M. 31.

Blumenthal, R. grad. st Pennsylvania. Br. 217. stud. phys.,

Bodansky, O., res. asst. chem. Colum-bia. Br. 122C.

Bodansky, O., Pes, asst. chem. Columbia.
Br. 122C.
Bodine, J. H., asst. prof. zool., Pennsylvania.
Br. 220.
Bowen, Edith S., instr. zool., Hood (Maryland).
Rock. North.
Bowen, R. H., asst. prof. zool., Columbia.
Br. 327.
Bowling, Rachel., stud. biol., Columbia.
Br. 331.
Bowman, P. W., instr. bot., George Washington.
Bot. 22.
Bridges, C. B., res. asst., Carnegic Inst. Br. 332.
Brieger, F. G., Rockfeller. res. fellow. Bussey Inst, Bot. 6.
Brooks, S. B., biologist, Hygienic Lab., Washington, D. C. Bot. 4.
Brooks, Mrs. M. M., assoc. biol., Hygenic Lab., Washington, D. C. Bot. 4.

Bot. 4.

Brown, D. E. S., instr. phys., N. Y. Univ. Br. 342. Byerly, T. C., prof. zool., Iowa State L. 23.

Calkins, G. N., prof. protozool., Columbia. Br. 331.
Cattell, W., res fellow biol., Memorial Hosp., N. Y. Br. 123.
Cattell, M., instr. phys., Cornell Med.

II. InstructionBr. 214.(N. C.). Bot. 3.Jacobs, M. H., asst. prof. phys., Penn-<br/>sylvania.Chambers, R., prof. anat., Cornell<br/>Med. Br. 328.Grant, Madeleine P., asst. prof. zool.,<br/>Mt. Holyoke. O. M. 32.

Amberson, W. R., asst. prof. phys.,<br/>Pennsylvania.Chen, T. Y.,<br/>Columbia.grad. stud,<br/>protozool.,<br/>Columbia.Br. 314.Fenn, W. O., prof. phys., Rochester.Chidester, F. E.,<br/>Virginia.Br. 344. Grave, B. H., prof. zool., Wabash (Ind.). Br. 234. Grave, C., prof. zool., Washington (St. Louis). Br. 226. Guthrie, Mary J., asst. prof. zool., Missouri. Br. 336.

Virginia. Br. 344.
Choate, Dorothy, stud. zool., Pennsylvania. Br. 217.
Christie, J. R., assoc. nematologist, U. S. Dept. Agr. Rock. East.
Clark, Mrs. E. L., grad. stud. anat., Pennsylvania Med. Br. 311.
Clark, E. R., prof. anat., Pennsylvania, Med. Br. 311.
Clark, L. B., grad. stud. zool., Hopkins. Br. 315.
Cobb, N. A., agr. technologist., U. S. Dept. Agr. Rock. East.
Cole, E. C., asst. prof. biol., Williams.

Cole, E. C., asst. prof. biol., Williams. O. M. 24.

Cole, L. J., prof. genetics, Wiscon-sin. Br. 118.

Collett, Mary S., assoc. prof. phys., Western Reserve. O. M. 4. Coolidge, T., grad. stud. biochem, Harvard Med. Br. 107.

Copeland, M. prof. biol., Bowdoin. Br. 334.

Covell, W. P., asst. anat., Rockefeller Inst. Br. 209B.
Cowdry, E. V., assoc. memb., Rocke-feller Institute. Br. 209B.
Craighill, 'Caroline. Br. 223.

Cuajunco, F., instr. anat., Univ. Philippines. Br. 111. Curtis, W. C., prof. zool., Missouri. L. 28.

Darby, H. H., instr. biol., N. Y. Univ. Br. 342. Dawson, J. A., instr. zool., Harvard O. M. 29.

DeForest, D. M., instr. biol., Union.

DeGraff, A. C., instr. phys., N. Y. Univ. Med. Br. 110.
Donaldson, H. H., prof. neur. Wistar, Inst., Br. 117.
Dolley, W. L., Jr., prof. biol., Buffalo. Br. 339.

Downing, R. C., asst. zool., Wabash. Br. 234.

Dugger, B. M., prof. plant phys., Washington (St. Louis). Br. 122A. Edwards, D. J., assoc., prof. phys., Cornell Med. Br. 214.

Ellsworth, R. M., asst. physician, Hopkins Hosp. Br. 302.

Fales, Doris E., grad. asst. zoo. Western Reserve. Rock. North.

rr. C. W., assoc. prof. ph Washington (St. Louis). O.

Base. Fenn, W. O., prof. phys., Rochester Med. Br. 313. Fogg, J. M., Jr., inst. bot., Pennsyl-vania. Bot. 22.

Fogg, J. M., Jr., inst. bot., Pennsylvania. Bot. 22.
Fogg, L. C., grad. stud. zool, Columbia. Br. 314.
Folger, H. T., instr. zool., Michigan. L. 32.
Fry, H. J., asst. prof. emb., N. Y. Univ. O. M. Base.
Gabritschevsky, E., asst. genetics, Univ. Moscow, Russia. Br. 332.
Gardner, Mary S., grad. stud. biol., Bryn Mawr. Br. 315.
Gates, F. L., assoc. memb. Rockefeller Institute. Br. 209A.
Gates, G. E., head biol. dept., Judson Col., Burma. Br. 217.
Genther, Ida T., asst. instr. phys., Wisconsin. Br. 122C.
Glaser, O. C., prof. biol., Amherst. Br. 204.
Glusker, D., grad. stud. phys. Penn-

Br. 204.
Glusker, D., grad. stud. phys. Pennsylvania Med. Br. 309.
Goldfarb, A. J., prof. biol., Col. City N. Y. L. 34.
Goodrich, H. B., prof. biol., Wesleyan. Br. 210.

leyan. Br. 210. Grand, C., asst. anat., Cornell Med. Br. 328.

Grant, C. W., instr. bact., Battle Creek. Br. 111. Grant, Jean F., instr. St. Mary's Sch. (N. C.). Bot. 3.

Br. 343.

Farr, C.

#### INVESTIGATORS—Cont.

Loeb, L., prof. path., Wash. Univ. Med. Br. 122C.
Long, Margaret E., grad. stud. zool., Pennsylvania. Br. 217.

Loucks M. M., fellow phys., Minneso-

Loucks M. M., fellow phys., Minnesol-ta. Br. 110.
 Lucar, A. M., instr. zool., Washing-ton (St. Louis). Br. 111.
 Lucke, B., asst. prof. path., Penn-sylvania. Br. 310.

Lynch, Ruth S., instr. zool., Hopkins.

Br. 304. Lyons, C., stud. zool., Alabama. Br.

217.
McClung, C. E., prof. zool., Pennsylvania. Br. 219.
McCutcheon, M. asst. prof. path., Pennsylvania. Br. 310.
MacDougall, Mary S., prof. biol., Agnes Scott. O. M. 22.
MacDut Scott. C. instr. 2001.

McMullen, Eleanor C., instr. zool., Cornell. L. 31. McNamara, Helen, tchr. Rockfeller Institute. Br. 207.

Martin, E. A., asst. prof. zool., Col. City N. Y. O. M. 2. Mast, S. O., prof. zool., Hepkins.

Mast, 'S. Br. 312.

Matthews, Annette, stud. biol., Maine. L. 24.

J. W., prof. biol., Union. Mavor,

Mavor, J. W., P. Br. 343.
Means, J. H., prof. clin. med., Harvard Med. Br. 110.
Metz, C. W., staff memb. Carnegie Inst. Cold Spring Harbor. Br. 222.
Metzlie L., resident lect. med.,

Michaelis, L., resident lect. med., Hopkins. Br. 319.

Miller, H. M. asst. to C. Grave. Br. 226.

Minter, M. and data for the 226.
Mitchell, W. H. Jr., grad. stud. proto-zool., Harvard. Br. 217.
Mitchell, P. H., assoc. prof. phys., Brown. Br. 233.
Morgan, T. H., prof. exp. zool., Columbia. Br. 320.
Morrill, C. V., asst. prof. anat., Cornell Med. L. 27.
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Morses, Mildred, res. ass't. Carnegie Inst. Br. 223.
Nachtsheim, H., fellow Int. Ed.

achtsheim, H., fellow Int. Ed. Board. Br. 333. adler I. F. Nachtsheim, H.,

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Orbison, Agnes, asst. prof. zool., Elmira. Br. 336.

Packard, C., assoc., Inst. Cancer Research, Columbia. O. M. 26.
 Page, I. H., chemist, Eli Lilly. Br.

325.Palmer, G.

almer, G. D., asst. prof. chem., Kansas State. O. M. Base.

Pantin, C. F. A., physiologist, Marine Biol. Assoc., Plymouth, Eng. Br. 324.

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Pennslyvania. Br. 221. Pasovini, P., Int. Ed. Board Fellow, zool. Br. 315.

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vard Med.

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rest (Roumania). Br. 225. G. E., instr. zool., Iowa State. Potter, L 23

Rand, H. W., assoc. prof. zool., Har-

Rand, H. W., assoc. prof. Learly vard. L. 30.
Ratcliffe, F. N., grad. stud. biol., Princeton. Br. 110.
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Cornell Med. Br. 328. Rogers, C. G., prof. phys., Oberlin. Br. 218.

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Bot. 1. Schultz, J., asst. zool., Columbia. Br. 314.

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Mawr. Br. 125. Schrader, Mrs. I. H., instr. biol., Bryn Mawr. Br. 125.

Mawr. Br. 125. Schwartzbach, S., med. stud. Mary-land. Br. 122B. Scott, J. P., photographer, Science Service. O. M. 6.

Scott, J. 1., Service. O. M. 6. Service. O. M. 6. Scott, W. J., grad. stud. phys. Penn-svivania. O. M. 7.

sylvania. O. M. 7.
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Smith, W. A., res. asst. phys., Penn-sylvania. Br. 205.
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Columbia. Br. 8.
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There Examines K. asst. phys. to

Thomas, Fransicca K., asst. phys. to

Dr. Means, Mass. Hosp. Br. 109. Thomas, G. W. med. stud. Harvard Med. Br. 108. Titlebaum, A. stud. emb. Columbia.

Br. 314.

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226.

Vicari, Emilia M., med. stud., Cor-nell Med. Br. 317. Wallace, Edith M. artist to Dr. Mor-gan, Columbia. Br. 321. Wacse, A. O., prof. zool., Oklahoma.

L. 25. Wieman, H. S., prof. zool., Cincin-nati. Br. 334.

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 Univ. Basel, Switzerland. Br. 127.
 Basel, Switzerland. Br. 127.
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phys.

zool.

phys.

Arkansas. emb.

necticut, zool

ton, zool.

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phys.

zool

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ter. zool.

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#### **STUDENTS**

The abbreviations used are the same as in the list of Investigators. In the case of Miss Arnold the in-In the case of Miss Arnold the in-rormation given is that she is an undergraduate student at Wellesley College and that she is taking the course in botany at the laboratory. If the person in question has a position other than that of an under-graduate student it is so indicated. Arnold, Dorothy E., Wellesley, Bot. Avery, B. F., prof. anat., Am. Univ. Beirut, Syria, Zool.

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sylvania, Protozool.

Carpenter, Est consin, Emb.

Emh.

Emb

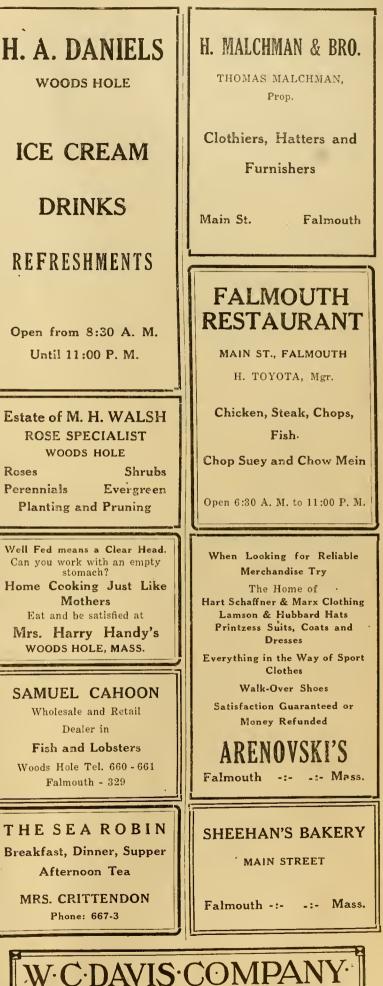
Bot.

zool.

Cupiunce. F., inst Philippines, Emb.

Emb. Bing, F. C., Pennsylvania, Phys

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#### STUDENTS-Cont.

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 Underwood, Katharine, A. B. Vassar,

zool

Van Cleave, C. D., asst. zool., Chi-

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Chambernin, Thelma I., Secretary. MacNaught, Jeannette, office asst.

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 Wolff, W. A., asst. chem., Pennsylvania, Asst. Director. ASSISTANTS

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SUPPLY DEPARTMENT SUPPLY DEPARTMENT Gray, G. M., curator. Veeder, J. J., captain. Lewis, E. M., engineer. Leathers, A. W., head, shipping dept. Crowell, Ruth S., secretary. McAfee, Cora L., secretary. Ballard W. W., collector. Conklin, P., fireman. Crane, S., collector. Conklin, P., fireman. Crane, S., collector. Davis, W. A., collector. Godrich. J., deckhand. Healy, D. C., collector. Hilton, A. M., collector. Hobbs, K. L., collector. Jackman, W. L., collector. Lawrence, L. T., collector. Lawrence, L. T., collector. Lewis, E. M., engineer. Lillie, W., deckhand. Lowney, L., substitute engineer.

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Open from 8:30 A. M.

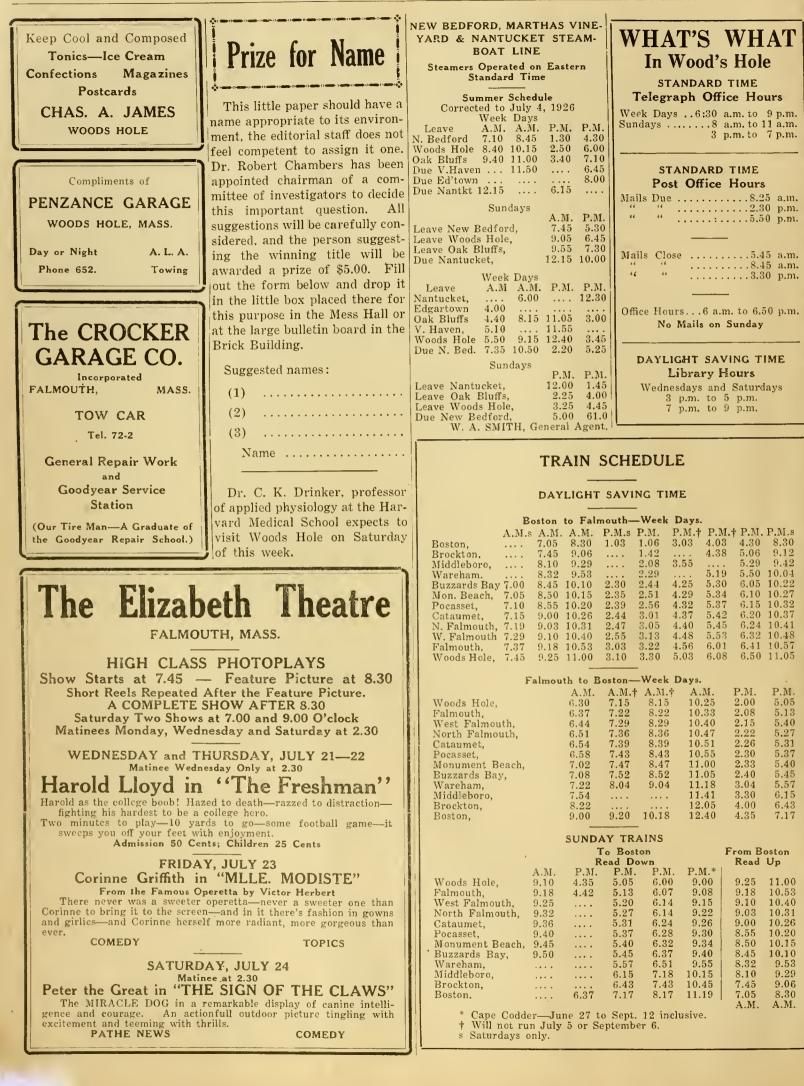
Estate of M. H. WALSH

Roses Perennials

Well Fed means a Clear Head. Can you work with an empty

THE SEA ROBIN Breakfast, Dinner, Supper





#### AOZOTORP

#### (Continued from Page 1)

how correlated with the kind of class. It is remarkable how the complexion of the class changes from year to year. There seems to be a great dearth of bachelors in the course, for, aside from the six women in the class, the others are mostly young married men. Is there any correlation between this fact and the speed with which the class works?

One might ask what has tions. been accomplished by the Protozoa hunters. The most bizarre forms imaginable have been seen and drawn, in the effort to reach the goal of 100. Worms, diatoms, desnoids, larvae of metazoa and everything else imaginable, have been drawn and called various forms of Protozoa. Many new Pro-tazoa, of this type, have undoubtedly been located if the drawings are to be considered Dr. MacDougall and valid. Dr. Baker most certainly have the sympathy of the whole class in the matter of recognizing species for some of the drawings turned in. Hats, cats, dogs, babies' bibs and whatnot have all been observed in the microscope, in the form off prospective protozoa. This leads to a notice which should be Members of the published: summer colony are hereby warned not to lose sight of their toy Pekingese dogs on the beach, inasmuch as one nearsighted member of the class recently brought one in and drew it, thinking it was a new species of Ciliate. Also any real Protozoan pets on the grounds should be carefully guarded, for there is danger of 'losing' anything that looks like a single-celled animal.

Various methods of taming the Protozoa seem to have been perfected in the laboratory. Some lay claim to especially well-trained and tamed forms. They can make them hold still, turn over, wiggle a flagellum, or sit up and take food to demonstrate the mouth, all at will. The favorite method, as observed, seems to be that of gentle talking to the beasts. If anyone should happen to walk through the laboratory and note someone talking, apparently to himself, they should not consider him as a patient for a Psychiatrist. He is merely trying to humor the source of one of his "100 recognizable drawings."

We have in our midst this summer, Mr. R. L. Duffas,

## Anions and Snoitac

On Monday of the past week Prof. Merkle H. Jacobs concluded his series of lectures and handed the class over to Dr. This first Wallace O. Fenn. portion of the course had consisted of a study of some of the major physico-chemical effects obtainable with living material -notably thermal, osmotic and ionic. The latter included not only the various relations envolving H-ion, but also the effects of the more common ca-

Dr. Fenn's interests lying in the field of "muscle," his allotment of four hours was devoted entirely to tracing the arguments pro and con for what little is known of the nature of muscular contraction and recovery. His discussion centered about the chemical and energetic relations which have been observed to dateverified and unverified.

On the Saturday just past, Dr. Amberson took possession of the lecture platform, for a series devoted to some of the energy relations of living tissue. Because of the large number of non-registered attendants at all the past lectures, a list of those scheduled for the coming week will be announced regularly in this column. Dr. Amberson's series follows:

Saturday, July 17-"Electrobiologic Phenomena and Their Interpretation.

Monday, July 19 --- Conclusion of Saturday's Topic.

Tuesday, July 20-"The Effect of Variation in the Oxygen Pressure on the Energy Rela-tions of Living Material." Wednesday, July 21 — "The Mechanism of Oxidation in Living Tissues."

Thursday, July 22 — "Res-piratory and Calorimetric Relations, with Special Reference to the Eggs of Marine Forms Abundant in this Vicinity.

Friday, July 23 - "Electric Fish," with a demonstration. Saturday, July 24-"Oxidation" Potentials.

Regarding the last lecture, Dr. Fenn has not yet decided whether he will accept at Dr. Amberson's hand the honor of giving it. From the writer's personal observation, only the flipping of a coin could possibly help him make up his mind.

During the last week, work in the laboratory has been transformed from the rountine class-assignment variety of expierment to somewhat less organized activity. It has consisted of group work on prop-erties of frog muscle, respiratory studies on frog muscle and for the New York Times. (Continued on Page 8)

## ALGLAE

If no news be good news, the Botany department, to all outward appearances, shows signs of a long and illustrious career of scientific progress. When interviewed by questioning reporters, the staff shakes a solemn head,—and that is that. Perhaps there is a possibility that a "human interest" story is a rare occurrence in so scientific and serious (?) a community, but we still have hopes.

If we do lack news, however, we abound in local color, for the life of a botanist is a rare one. We have been work-ing. (We insist on making this very clear!) It may appear to outsiders who are not initiated into the thallophytic rites and mysteries that the students of Botany at Woods Hole enjoy the swimming and tennis to a degree incompatible with all the preconceived notions of the life habits of botanical neophytes. But we do work! For the past three weeks we have collected, classified and 'chucked\_out" a good part of the available and visible marine flora of these parts. We have waded through all the ditches and oozzy ponds in the neighborhood. We have rowed right manfully across the harbor to Pine Island, and then when the boats have stuck, climbed out into the briny deep and pushed them back home again. Last but not least, twice has the good ship Cayadetta carried a gallant (if somewhat erratic looking) crew to far and distant isles. The first long trip was to Pennikese and the second (from which we are just recovering) was to Nashawena and Pasque.

We have already had two seminars on Monday evenings. The first one of the season was addressed by Mr. Fogg. who gave an illustrated lecture on the "Flora of the Selkirks," and by Dr. W. R. Taylor, who spoke of his algae-collecting experiences in the same region. The discussion that followed dealt largely with the mosquito crop in the Great Northwest and certain culinary triumphs composed of flour, baking powder and water, greased up a little with bacon fat and successfully only when cooked in the great open spaces.

The second seminar of the season was addressed by Dr. C. H. Farr, who lectured on the "Physiology of Root Hairs." Dr. Farr initiated us into the activities of root hairs when subjected to various mechan- little review-not a tesc, in any ical and chemical stimuli, and after showing us a very lengthy stand,—just a diagnosis!" Are and voluminous record, famili-arly termed the "root hair are!

## **PISCES**

Many of the scientific studies carried on by members of the Bureau of Fisheries staff at the Woods Hole station are parts of a well organized international program of fishery investiga-tions in the western North Atlantic. Mr. Elmer Higgins and O. E. Sette, two of the U. S. representatives who attended the last meeting of the North America Committee on Fishery Investigations held at St. Johns, Newfoundland, July 9th and 10th, arrived at Woods Hole last Friday. They report that the past year's results and the future program considered at this meeting augur well for the continued progress of Canadian, Newfoundland, French and American investigations of the ichthyology and oceanography of this region. Cod, haddock and mackerel are the principal species of fish being studied jointly by the nations con-cerned. Mr. Sette who is in charge of the mackerel investigations in the U.S. will contin at Woods Hole during the major portion of the summer.

A conference of investigators interested in various phases of aquatic biology covered at the station, pursuant to the call of Doctor Albert Mann of the National Museum. The several meetings were well attended and such matters were discussed as the close and extended cooperation of investigators who are interested in the organisms which compose the fundamental food supply of our marine and inland waters.

#### (Continued on Page 8)

ticker," concluded his talk with a discussion of root hair psychology, much to the delight of the audience.

This week's seminar will have the Rev. A. M. Keefe, who will speak on "Sargassum, with Notes on the Sargassum Sea." On July 26; Dr. Fish of the Fisheries will speak on "Life in the Open Ocean as Seen from the Arcturus." Both of these meetings will be held in the old lecture hall, and from dark rumors that pervade this laboratory life, we feel that steamed Myteli and fudge may increase the purely bio-logical interest of these occasions.

No account of the life of a botany student, however, is complete without a word or two about our "quizzical" staff of instructors. Of late, no day is complete without "a sense of the word, you underPAGE EIGHT

## **EMBRYOS**

The work in the course up to date has covered the development of the Teleosts, Coelenterates, squid and Crustacea. Dr. Goodrich gave the lectures on the Teleost Embryology, Dr. Plough the Embryology of the gaining the cooperation of es-Coelenterates, Dr. Grave the Embryology of the squid and Dr. Packard the Embryology of the Crustacea.

Two special lectures have been given thus far by investigators concerning the work in their special fields of research.

Dr. Stockard of Cornell Medical College gave a most interthe environment on the embryonic period of life.

Dr. Clarke of Johns Hopkins also gave a very interesting talk on the development of the vascular and lymphatic systems and the differentiation of wandering cells. Dr. and Mrs. Clarke drew their conclusions from observations made on the tail of a tadpole.

The regular lectures for the coming week beginning Monday, July 19, will be given by Dr. Rogers on the Embryology of the Echinoderus.

Wednesday, July 21, Dr. Henry Fry will give a special lecture on Parthenogenesis.

On Saturday, July 24, Dr. Charles Fish of the Bureau of Fisheries will lecture. He has been working on the larvae found daily in the tow.

In the afternoon of the last day of the study of fish embryology July 6, the class enjoyed a trip to the fish traps. The Cayadetta was used for the trip. Those who became so inquisitive about the process of the hauling of the traps that they went close to them in the skiff found the trip a rather moist one. We rather think the collecting crew enjoys splashing the "bug hunters". At any rate the haul was an exceedingly large one for this time of the year. It was estimated at about a half ton. The forms collected were mostly scup, dogfish, puffers and squids. Before returning Capt. Veeder gave the class an added treat by taking them into Vineyard Sound thus prolonging the ride.

Last Friday morning the class went out on the Nereis to Quisset. collect plankton. Towing was done through the Hole and in Hadley Harbour. The plankton collected proved to be very rich in Crustacean larvae.

The past week has been a very big one for birthdays in Sunday at Provincetown. the Embryology class.

#### PISCES

(Continued from Page 7)

biologists some of the many problems which are worthy of immediate attention, ways of tablished institutions, and other things of mutual interest. As an immediate result of the meetings a committee will be appointed to carefully consider the situation and report at a later date. Visiting delegates participated in a collecting trip on the steamer Phalarope.

Deputy Commissioner Lewis esting lecture on the effect of Radcliffe and Elmer E. Higgins, Chief of the Division of Scientific Inquiry, have visited the institution on a tour of inspection — Investigations now in progress at the station, others contemplated for the near future, and matters of general policy as well, received attention.

> The gauarium is being constantly visited by numbers of people interested in the many peculiar fishes and other ani-The wreckfish, the arrivals. second individual to be caught in American waters, is of European extraction. He spent the winter in the New York aquarium and now like some of the rest of us is here for the summer. Some seahorses are ing to dislodge some expected soon.

21st birthday on Monday.

Nataie Sidman of Montclair New Jersev has been visiting Cecile Conklin during the past week.

Monday evening a beach party was held at Quisset in honor of Sidney Britten's birthday.

Tuesday the mail was exceedingly heavy but it seemed to be all for one person. Gladys Holmes was the lucky girl receiving innumerable packages, letters and postcards. This was Gladys' birthday. In the afternoon a two table bridge party was held at the M. B. L. Club in her honor.

Sunday, July 18 was Jack Harrington's birthday. It was celebrated by another party at

Anna Eggerdink and Donnie Getchell spent Tuesday in New Bedford.

Saturday at New Bedford and

#### JELLY FISH

#### (Continued from Page 2)

zoa. But we certainly had our that we were laughing just as ignorant creatures!

Did you ever see the "rose-petaled blossoms" of the Tulike a miniature garden of La yeu will co-operate with us. France roses? But Dr. Young informed us of the fact that they were "perfectly good" members of the zoological family carrying the preponderous name of Coelenterates. And again, a most delicate, lacc-lake egret of feathery whiteness was gravely introduce 1 as Schizotricha. How do they stand up under the weight of mals to be seen there. An un- it all? But that wash the got usually large lobster and a cumstance to the thrill we got the among the late when Dr. Young found the free-swimming medusa form the scientific world.

before we were frantically try- est. of Dr. Bennett's Platyhelminthes from our pipettas. Such a the effect of celebrating his time as we had, all but growing triclad intestines ourselves trying to trace out systems when the hungry little beasts had simply gorged themselves with a sumptuous repast of coal dust. Rather the idea you know of tracing a black thread on a black carpet with all the electric lights turned off. But we found a rather effective difficulties-smash them gently but firmly-presto, the dinner gone, and the dinner handling apparatus appears.

If anybody wants to find out as much about Annulata as the the Messiah. A good time invertebrates intend to learn, guaranteed! Don't miss it! we'll say that Dr. Martin is lecturing July 20, 21 and 22, while Dr. Bissonette follows that subject with the Bryazoa on July 23.

Nature records the death of Mrs. Holcomb has been away professor of botany and director for the week end, spending of the Botanic Garden, University of Besancon; of Professor W. F. Shanks, professor of phythe Embryology class. Red We hear that Guy Horsley siology in the University of Britten was absent from lab took Lida Brannon to Falmouth Leeds since 1923 and formerly part of the day Tuesday and Saturday morning to have her lecturer in physiology in the matured sufficiently to be cal-we believe it may have been hair cut.

## **TOWN TOPICS**

Woods Hole, with its little the possibility of bringing to ble, just couldn't be placed un-the attention of the younger der the grand head of Proto- sails, its verdant hills breathing out a welcome fragrance, and first real introduction to the its cozy farms reflecting its tourists passing Penzance spot; at this time of the year ponds in which the "inverte-brates" were gleefully dis-happiness and wide curl biological profession when cheery spirit, is a true beauty ponds in which the "inverte-brates" were gleefully dis-porting themselves, exclaimed, "Hey' James, will you look at who live near together, but all those crazy people!" But many of whom do not know of the difference lay in the fact one third the activities surrounding them. So this, dear uproariously at them. Poor reader, will be our aim in the future, to keep the dwellers of Woods Hole in touch with each other and with the current bellaria lifting in the water events of the day. We hope

> The ladies of the M. E. Church will hold their annual sale in the vestry of the church on Wednesday, July 21, at 3 p. m. Aprons, fancy articles, candy and home cooked food will be on sale.

Mrs. James J. Marshal of Quissett is organizing a couple of teams of women golfers at the Woods Hole Club. During the summer these teams will of Clytia and announced that encounter formidable oppon-this was its first entrance into ents, at the various golf courses on the Cape and golf enthusi-But we didn't even wait for asts are awaiting the tournaa Woods Hole fog to disappear ments with considerable inter-

> Miss Helen Burkart, director of the Seymour School of Musical Re-education at Washington, D. C., is stopping at the. Rowen cottage this summer. Miss Burkart is taking pupils.

Miss Joan Fay has returned from a recent trip abroad.

Ho-all ve citizens! Come one come all! Come to the Parmeans of getting around the ish House Wednesday, July 28, and enjoy yourself. Home cooking. candy, fancy work, tea, ice cream, and grab! The annual fair of the Church Work Association of the Church of

#### ANIONS AND SNOITAC

#### (Continued from Page 7)

output of muscular tissue on stimulation (using a real feras thermostat) and a repetition of some of Dr. Loeb's experiments on the varying of certain properties of gelatine with ph. Several members of the class have undertaken independent prob-

# THE COLLECTING NET

**VOL.** 1. NO. 2

WOODS HOLE, MASS., THURSDAY, JULY 29, 1926.

TEN CENTS

#### **TOWN TOPICS**

#### Lifeless Body Found Off Hedge Fence

Put! Put! Put! Sounded the steady beat of the engine of the Coast Guard Base 239, as the Coast Guard Base 239, as she cut through the calm waters about one-half mile off Hedge Fence Lightship, southeast of Nantucket. Suddenly the trusty engine stopped, and the base drew alongside a dark object floating in the water. The ob-ject was hoisted aboard, and the areau drew back in surprise. Ba crew drew back in surprise. Before them lay the limp body of

a man long since dead. "It was awful!" said the quar-termaster. "I judge he was a man of about forty or forty-five years. He was about five foot ten, and wore a merchant marine dungarees. He had on light brown shoes and gray stockings. Two things that I noticed were peculiar. He had a long knife fastened in his belt, and he had a small hole in the back of his head. This latter might have been caused by striking some-thing as he fell. We didn't know him, and were unable to locate him, so we took him to the Marine Hospital in the Vineyard. He is still there, and as yet up-identified."

Judge Walsh from New Bed-ford is visiting his relatives on the M. H. Walsh estate of Woods Hole.

Woods Hole fire apparatus was called out last week to aid Falmouth in extinguishing a stubborn fire in the town dump at Gifford and Jones street.

## **Currents in Hole**

This week the current in the Hole seems to run from Buz-zards Bay to Vineyard Sound to the following according schedule:

July	28.	7:59	P.M.
<i></i>	29.	8:56	64
""	30.	9:52	44
66	31.	10:56	44
Aug.		11:50	66
		12:09	A.M.
66	3.	1:06	66
66	4.		44
66	5.	2:48	66

In each case approximately six hours later it reverses itself and runs from the sound to the bay. There is a period of about 15 minutes when the surface water appears to be stationary.

Laboratory Activities Friday, July 30, 4:30-6:00 P. M.

Botany Tea. M. B. L. Club. Friday, July 30, 8:00 P. M. Evening Lecture

Auditorium. Open to the public. "The Properties of Certain Arti-ficial Membranes" by Prof. L. Michaelis, John Hopkins University.

Antendens, John Hopkins Onl-versity.
 Saturday, July 31, 9:00-12:00 M.
 Dance, M. B. L. Club.
 Monday, Aug. 2, 8:00 P. M.
 Botany Seminar
 Old Lecture Hall. Open to the Public. "Mosaic Diseases and Leaf Variegations", by Fanny Fern Smith.
 Tuesday, Aug. 3, 8:00 P. M.
 Evening Lecture
 Auditorium. Open to the public.
 "Absorption of Irons by Orange and Walnut Seedlings", by Dr.
 Howard S. Reed, University of California.
 Friday, Aug. 2, 8:00 P. M.
 Evening Lecture

**Evening Lecture** Auditorium. Open to the public. "Reef Building and Land Forming Plants", by Dr. Marshall Howe, N. Y. Botanical Garden.

## The Collecting Net

Dr. Robert Chambers was appointed chairman of the name Committee whose duty was to select a title for our new publication. Those serving on the committee were: Dr. Robert Chambers, chairman, Drs. Clark, Dawson, Ed-

"The Collecting Net" for the that the entire list of names be committee.

Miss Sarah Dunlap submitted the winning name and she midst? will shortly receive the \$5.00 prize. The second choice of the committee was "Lab Lines" which was submitted by -

The entire list of names subnuited follows: M. B. L. En-lightener, Heterozoids, Trial and Error, Missing Links, M. B. L. Club for its members Amphioxious, M. B. L. Catal-yst, Puffers Digest, M. B. L. Dope Sheet, aMoeBaLette, Col-lecting Net Biolog Pio Har lecting Net, Biolog, Bio-Hop-per, M. B. L. Seine, Embryeller, W. H. Indicator, Hole Thing, only a half dozen couples took

(Continued on Page 8)

## Distinguished Biologists **Deliver** Lectures

Leading Biologists Give Evening Lectures To Enthusiastic Audiences

The twenty-ninth annual series of evening lectures is now well under way and the members of the laboratory have been privileged to hear a number of important communications on diverse subjects. In addition to the lectures by Drs. Chambers and Jennings, which have already been reported, talks have been given by Drs. Pearl, Coghill, Redfield, Metz, Fenn, Abstracts of these lectures, with the Witschi and Patten. exception of the last two are given below.

#### NEW ARRIVAL IN STURTEVANT FAMILY

vant announce the arrival of a Raymond Pearl who is professor fine baby boy on Monday.

# CLUB DANCE

There was a sound of revelry by night. Beneath the mystic moderate drinking as compared light of Japanese lanterns were wards, Fry, Harvey, Knower, Lancefield, Lewis, Packard, Mayor, Pantin and Speidel. three foreign countries. From subject which are too gener-The committee, after due the confines of the sedate old M. consideration, decided upon B. L. Club issued forth the allurthe confines of the sedate old M. ing strains of music; the mournpermanent name of the new ful note of the saxophone, the and the records made and check-weekly. It recommends, also, dreamy tones of the violin, the ed up by experienced students. ting-a-ling of the spritely banjo, Many curves and tables were the stacatto beat of the drum, shown illustrating the various printed in the forthcoming is-sue of "The Collecting Net" to and the sustaining rumble of the afford entertainment to its piano. In all fairness we ask readers and to indicate the dif-ficulties which confronted the man or Vincent Lopez when we have this excellent aggregation heavy drinking or total abstinof native talent in our very

> We doubt if there is anyone in Woods Hole who does not know what we are trying in our feeble way to describe. But, lest there should be some poor soul who was out of town that night,

#### Alcohol and Longevity

The regular series of the evening lectures at the Marine Bio-Dr. and Mrs. A. H. Sturte-on Tuesday, June 29 by Dr. A SUCCESS A SUCCESS

A restudy was made of the effects of extreme alcoholism or ally largely assumption on inadequately tested data; the cases were selected with special care and the records made and checkproblems involved, proving as the author's conclusion that moderate indulgence gives a more nearly normal curve than either ance.

#### Growth of Nerve Cells

Professor G. E. Coghill of the Wistar Institute of Anatomy and Biology, on Friday evening, July 2, delivered a lecture on "The Early Development of Behavior and Related Nervous Structures in Amblytoma." Dr. Coghill summed up in finished form the main results of his work of the last twelve years, published in the Journal of Comparative Neurology and other papers. His clear diagrams and demonstrations of relationships

(Continued on Page 7)

## The Collecting Net

Issued under the auspices of The M. B. L. Club

**Club Officers** 

Florence Tinkham. Chair. House Com. Marion Rea..... Chair. Social Com.

#### **Editorial Staff**

Ware Cattell.....*Managing Editor* Helen H. Cattell, L. B. Clark, Anna C. Dunlap, Associate Editors.

Contributing Editors

Margaret Speidel. Investigator News F. I. Hollander.....Our Bacia Cecile Conklin .....Embryos A. S. Eichorn...Burcau of Fisheries Eleanor Sloane . Proifoelhelmathcoida 

#### **Cooperation** in Research

Our civilization has progressed rapidly since man first learned that cooperation and organization were essential to his advancement-nay, even to his existence. Likewise cooperation in research and scientific progress go hand in hand. The field of science has been split up into components so diversified and specialized that one person alone no longer can comprehend one of its major divisions. Yet fundamentally they are inter-related, hence for intelligent research close cooperation is essential.

about letting others know just about letting others know just what they are doing or how they are doing it. This attitude is to be condemned, except perhaps on rare occasions in the field of This is encept to devoting a little more This devoting a little more The first floor has a large medicine and surgery. This is space to advertisements. Every need, so important to the very etc. The first floor has a large not in the interest of science, member of the laboratory should life of the enterprise represented social room, placed centrally and even though in some cases it may make a special point of patroniz- by the Marine Biological Labora- opening into a patio with garden be better for the ego. A captain in the war who leads his men to battle for his own glory is not a good soldier. He must coordin-ate his activities with those of the the others for the grad of the the others for the good of the whole.

of its contributions. People should not be taxed, and benevo- LIVING ACCOMMODATIONS lent persons should not donate money, that one group of individuals may be glorified at the expense of others and to the detriment of scientific progress.

tive in the formation of new the Gansett property, and finally east end of the angle. ideas.

beginning of the next season a system whereby this can be ac-complished deserves the hearty settled part of the community, half of these with two bedrooms support of every one interested annually returning to the labora- and half with one. In addition in the progress of scientific re-search. The general plan will be Woods Hole residents had connecting bedrooms and private to have the different investigators volunteer to devote one day to accommodate the additional while along the hall there is a during the season to showing increasingly large number of row of eight to ten single bed 

visiting other laboratories.

Those who helped in preparing of which will still be used. A research worker is support- the directory and whose names Eight houses, including the ed almost without exception are not on the editorial staff are homestead and the old brick A research worker is support- the directory and whose names directly or indirectly by charity, S. Wright, Walburger A. Peter- building, now serve as dormitoralthough in the end the commun- son, and Margaret Sumwalt. We ies and belong to the laboratory. ity reaps dividends far in excess are grateful for their assistance. The Dathrooms and large social room can be ity reaps dividends far in excess are grateful for their assistance.

## FOR LABORATORY WORKERS

#### (Continued from last week)

quainted with the problems and methods of their co-workers for the greatest productiveness in their research. It turns out that in countless cases the knowledge of what one investigator was do-

eas. the new undeveloped tract for The proposal to initiate at the further building.

volunteers will profit: (1) By the privilege of learning about other work and volunteers will profit: (1) By the privilege of learning about other work and learning about other work and learning about other work and volunteers will profit: (1) By the privilege of learning about other work and volunteers will profit: (1) By the privilege of learning about other work and volunteers will profit: (1) By the privilege of learning about other work and volunteers will profit: (1) By the privilege of volunteers will provided with volunteers will provided will provided with volunteers will provided will provided will provided will provided will provided will pro electric lights, automobiles, etc., also contains trunk rooms, store (2) By reducing the number rents and room rates for the rooms, and a laundry and of interruptions resulting from transient summer visitor are apt kitchen for common use. There persons droping into their lab- to climb. Hence many who have is also a furnace by which the oratories to learn of their work desired to come for a season or building can be heated for any while they are in the midst of so, have found rates and open- wishing to stay in cold weather;

their utmost to promote scienti-fic research. The laboratory developed screens, and necessary furniture. dormitories some time ago from dwellings which came into its hands, and postponed the time of effectually meeting this need until the last minute. These amounted to \$83.75. We sold dormitories have grown to surabout 380 copies of our weekly prising proportions for both new dormitory, will likewise be at 10c each and we carried ad-single men and women and for three stories and a basement and vertising material to the extent families; but still there is a will stand on the Drew lawn, in of about \$30.00. We thus find steady demand for really ade-ourselves somewhat better off quate quarters for the very type will face the Eel Pond on the Some workers are reticent financially than we had predict- of young investigators not yet corner of East and North ed. We cannot hope to increase established who would be greatly streets.

> at low rates for many not placed a large wash room with toilets, in the present dormitories, some showers, etc. Each of the other two floors are similarly arranged

favorite dormitory for families it is planned to put several beds and some single students ever in each of the rooms of the Drew since it ceased to be a hotel House to care for 35 or 40

suites always in demand, on the girls. Investigators at our own lab-oratory are not sufficiently ac-and insistence of invading sum-streets, opposite the old lecture

ing would have materially helped limit, since there was no more This will be set back on the another. This will be set back on the grass and will have three stories An hour spent in the labora-tory of another scientific worker could probably be spent in no better way. Mutual discussions could probably be spent in its "beach lots" were opened up, to angle with the angle opening of the problems mt by the in-dividual workers is most produc- "Crow Hill" section. Later came Later another wing will join the

The plans of the apartment house show twelve very attrac-This seemed to provide amply tive family suites, each with liv-

(a) By the satisfaction of realizing that they are doing
(b) Rate found rates and open-wishing to stay in cold weather;
(carrying out an important series ings prohibitive. The situation has led to the building of dorm-torm it is a full equipment of electric lights, running water, their utment to provide the provide the series of worker.
(carrying out an important series ings prohibitive. The situation has led to the building of dorm-torm the series of worker.
(carrying out an important series ings prohibitive. The situation has led to the building of dorm-torm the series for this class of worker.
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(carrying out an important series ings prohibitive. The situation has led to the building of dorm-torm torm to series for this class of worker.

for 37 students; one-half for men, the other for women. Cer-tainly there is nothing left to be The Dexter House has been a heated. In addition to all this, where some of us boarded. Its younger men; and similarly to use will now be discontinued. fix up the Kidder House or the The Ritter House, with family Whitman House for 35 or 40

#### H. McE. K.

#### THE COLLECTING NET

(N. C.). Bot. 3.
Grant, Madeleine P., asst. prof. zool., Mt. Holyoke. O. M. 32.
Grave, B. H., prof. zool., Wabash (Ind.). Br. 234.
Grave, C., prof. zool., Washington (St. Louis). Br. 226.
Guthrie, Mary J., asst. prof. zool., Missouri. Br. 336.
Hague, Florence, asst. prof. phys., Oregon Agr. Rock. North.
Hance, F. T., assoc., Rockefeller Institute. Br. 208.
Hartline, I.Y. K., grad. stud. phys., Hopkins Iled. Br. 229.
Harnly, Marie L., lab. assist. to Dr.

Hopkins Tied. Br. 229.
Harnly, Mar'e L., lab. assist. to Dr. Morgan, Columbia. Br. 321.
Harnly, M. 11., grad. stud. zool., Columbia. Br. 314.
Harvey, E. N., prof. phys., Princeton. Br. 116.

Base.
Haywood, Charlotte, grad, stud. zool., Pennsylvania. Rock. West.
Hazen, T. E., asst. prof. bot., Columbia.
Bot. 24.
Heilbrunn, L. V., asst. prof. zool., Michigan. Br. 330.
Hemmeter, J. C., prof. clin. med., Maryland. L. 33.
Hess, Olga T., grad, stud., Brown. O. M. Base.
Hess, Walter N., prof. zool., De Pauw. Br.

Hess, Walter N., prof. zool., De Pauw. Br.
Hickman, Jane F., grad. stad. zool., Missouri. Br. 217.
Hinricks, Marie A., Nat. Res. fellow, Chicago. Br. 335.
Hisaw, F. L., asst. prof. zool., Wis-consin. L. 26.
Hogben, L., assoc. prof. zool., Mc-Gill. Br. 213.
Holt, L. E., assoc. in pedratrics, Hop-kins Hosp. L. 29.
Hoskins, Mrs. M. M., asst. prof. anat. N. Y. Univ. Col. Dent. Br. 305.
Hcwland, Ruth B., asst. prof. biol., N. Y. Univ. Br. 315.
Hughes, T. P., Ass't. Rockerfeller Institute.

Hulpieu, H. R., grad. stud. zool., Hopkins. Br. 312.
Humphreys, G. H., grad. stud. bio. chem., Harvard Med. Br. 108.
Inman, O. L., prof. biol., Antioch. Br. 114.

Irwin, Marion, assoc. phys., Rockefel-ler Institute. Br. 207.

Jacobs, M. H., prof. gen. phys., Pennsylvania. Br. 102.
 Jennings, H. S., prof. zool., Hopkins.

Johnson, Helen R., asst. biol., Brown. Br. 233.

Johnson, H. H., instr. biol., Col. City N. Y. O. M. Base. Just, E. E.,. prof. zool., Howard.

Kahn, M. C., instr. hygiene, Cornell Med. Br. 121.

Med. Br. 121. Kapp, Eleanor M., grad. stud. phys., Pennsylvania. Rock. West. Karns, Hilda E. teach. biol., Jr. High Sch. (N. J.) Br. 122. D. Keefe, A. M., prof. biol., St. Nor-beck's (Wis.). Bot. 5. Knower H. McE., prof. anat., Ala-bama. Br. 115. Knowlton, F. P., prof. phys., Syra-cuse Med. Br. 106. Kashing Vara instr zool Smith.

Kochring, Vera, instr. zool., Smith. Br. 217.

Br. 217.
Kuhn, Lieut. Harry A., chief Dept. Toxicology, Chem. Warfare Service, Edgewood Arsenal. Br. 217.
Lancefield, D. E., asst. prof. zool., Columbia. Br. 1.
Lancefield, Rebecca C., asst., Hosp. Rockefeller Institute. Br. 206.

asst. prof.

Com-

O. M.

Hayden, Margaret A., asst.
 zool., Wellesley. O. M. 5.
 Haynes, Rachel, histologist, mission Stand. Biol. Stains.

Base.

Institute.

Br. 304.

Br. 228.

# DIRECTORY FOR 1926

#### Abbreviations

Botany Building.....Bot. Brick Building.....Br. Lecture Hall.....L. Old Main Building.....O. M. Rockefeller Building.....Rock.

The abbreviations used for the positions and institutions used for the same as those incorporated in "American Men of Science." Thus, taking Dr. Amberson as an example, his position during the regular college year is assistant professor of physiology at the University of Penn-sylvania. His work at the laboratory is carried out in the Brick Building in Room 309.

#### THE STAFF

 Lillic, F. R., Director, prof. emb., chair. dept. zool., Chicago.
 Jacobs, M. H., Associate Director, prof. gen. phys., Pennsylvania. ZOOLOGY

#### 1. Investigation

Calkins, G. N., prof. protozcol., Co-

lumbia. onklin, E. G., prof. zool., Prince-Conklin, E. G ton (absent).

- Grave, C., prof. zool., Washington (St. Louis).

Jennings, H. S., prof. zool., Hopkins. Lillic, F. R., prof. of emb., Chicago. McClung, C. E., prof. zool., Penns-sylvania.

Mast, S. O., prof. zool., Hopkins. Mergan, T. H., prof. expt. zool., Co-

lumbia.

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#### EMBRYOLOGY

#### I. Investigation

See Zoology

**II.** Instruction

Goodrich, H. B., prof. biol., Wesleyan. Grave, B. H., prof. biol., Wabash. Packard, C., assoc., Inst. Cancer Res., Columbia.

Plough, H. H., prof. biol., Amherst. Rogers, C. G., prof. comp. phys.

#### Oberlin. PHYSIOLOGY

#### **I.** Investigation

- Bradley, H. C., prof. phys. chem., Wisconsin (absent). Garrey, W. E., prof. phys., Vander-bilt Med. (absent).

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Hartline, H. K., asst. in Woods Hole course.

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bia. Br. 122C.
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306.

306.
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Virginia. Br. 344.
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L. 28.

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127.

Br. 323.

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- 217
- Manwell, Reginald D., senior grad. asst., Amherst.
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- 324.
- 324.
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- Redfield, Helen, 181. 162. Columbia. Br. 314. Reznikoff, P., assoc. anat. instr. med., Cornell Med. Br. 328.
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- Titlebaum, A. stud. emb. Columbia.
- Br. 314.
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emb.

emb

emh.

emb.

phys.

zool.

phys.

Yale, Phys.

necticut. zool.

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phys

emb.

Wellesley

ter, zool.

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formation given is that she is an un-

dergraduate student at Wellesley College and that she is taking the

course in botany at the laboratory. If the person in question has a posi-tion other than that of an under-

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Emb

Bot.

hvs.

Cuajunco. F., ins Philippines, Emb.

Daniel, G. E., Arkansas, zool.

The abbreviations used are the

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Seton, H., Columbia, protozool.
Severinghaus, A. E., assist. zool., Columbia, protozool.
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zool Van Cleave, C. D., asst. zool., Chi-

cago, zool. Van Duyne. S. Elizabeth, phys. and teacher, Goucher, emb.

Vordemberge, Anna M., Goucher,

bot.

- Walker, Harriet P., Smith, emb. Walls, G. L., Tufts, zool. Warbasse, Agnes, Barnard, zool. West, L. S., prof. biol., Battle Creek, protozool.
- Weston, Dorcas, technician, zool. Willey, C. H., instr. biol., N. Y. Univ.,

protozool. Wolf, Opal M., assist. zool., Wiscon-

sin, zool. Woods, F. H., instr. zool., Missouri,

zool.

Wormley, L. C., Dartmouth, zool. Worth, Evelyn W., Penn State, bot. Wright, S., fellow zool., Wisconsin, zool.

Wu, C. F., Wisconsin, emb. Zeek, Pearl M., med. stud., Columbia, protozool.

#### **ADMINISTRATION**

McNaught, F. M., business manager. Crowell, Polly L., asst. to the business

manager. Chambernin, Thelma 1., Secretary. MacNaught, Jeannette, office asst.

#### LIBRARY

Montgomery, Hugh, acting asst. lib. Montgomery, Hugh, acting assistant Lawrence, Deborah, secretary. Oliphant, Dolores, typist. Veader; Marjorie, typist. Griffin, Charlotte, file clerk. Look, Elizabeth, file clerk.

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Strong, O. S., assoc. prof. neur., Co-

lumbia, Director. Wolff, W. A., grad. stud. chem., Penn-sylvania, Asst. Director.

#### ASSISTANTS

ASSISTANTS Ballard, Mary. stud., Mt. Holyoke. Dunlap, Anna C., stud., Wellesley. Haas, Dorothea, stud., Mt. Holyoke. Hale, J., stud., Oberlin. Holbert, Pauline, stud., Elmira. Jennings, B., stud., Friends Sch. (Baltimore).

Perrine, Ruth R., Oberlin, zool.
Peterson, Daggmar H., res. zool., N. J. Agri. Exp. Sta., bot.
Pierce, Madeline E., Radcliffe, zool.
Pinkston, J. O., instr. biol., Southern, Ala., phys.
Pike, M. H., Michigan, zool.
Popa, G. T., chief asst., Bukarest, Roumania, emb.
Preu, P. W., Cornell Med., emb.
Reinbard, E. G., instr. zool., Buffalo Soc. Nat. Sciences, zool.
Rich, Robins, Sweet Briar, zool.
Robertson, D. F., Missouri, phys.
Robb, R. C., grad. asst. zool., Daihousie, zool.
Rogers, Edith, Goucher, zool.
Rowell, L. S., instr. zool., Vermont zool.
STUDENTS—Cont.
Schwind, J. L., asst. biol., Yale, zool.
Seton, H., Columbia, protozool.
Seton, H., Columbia, protozool.
Seton, H., Columbia, protozool.

Suble State State and the state

BUILDING AND GROUNDS Hilton, H. A., supt. buildings and

grounds. Bronnes, Supt. mechanical dept.
Phipps, R. E., mechanician.
Hemenway, W., carpenter.
Bisco, A. H., storekeeper and head janitor.

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- Bullington, W. E., prof. biol., Ran-dolph Macon (Virginia), room 123

- 123.
  Christie, J. R., assoc. nematologist, U. S. Dept. of Agri., room 123.
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  Connolly, C. J., instr. comp. psy., Catholic Univ., Washington, D. C., room 123. room 123.
- Corder, Margaret N., sec. to Dr. Cobb, room 123. Crosley, R. W., assisting Dr. P. S. Galtsoff, U. S. Bur. Fisheries, room 123.
- room 123.
  Drayton, Jessie E., U. S. Bur. Fisheries, Washington, D. C., sec. to director. Fisheries Lab., room 118.
  Eichorn, A. S., asst. in zool., Western Reserve, Cleveland, O., storekeeper Fisheries Lab., room 131.
  Fisn, C. J., assoc. acquatic biol. U. S. Bur. Fisheries, room 115.
  Fish, Mrs. Marie P., field assist. at large, U. S. Bur. Fisheries, room 115. 115.
- Ford, Regina M., asst. librarian, U. S. Bur. Fusheries, Washington, room 143.
- room 143.
  Galtsoff, Mrs. P. S., technician, assist. to Dr. Galtsoff, Bur. of Fisheries, Woods Hole, Mass., room 122.
  Galtsoff, P. S., aquatic biol., U. S. Bur. Fisheries, room 122.
  Goffin, R. A., collector, U. S. Bur. of Fisheries, Woods Hole, room 119.
  Gray, I. E., asst. prof. of zool., Tu-lane, room 123.
  Hall E. G. prof. of biol. Duke Univ.

- Hall, F. G., prof. of biol., Duke Univ., room 123.
- Heinly, Helen M., (at Fisheries Lab. with Dr. N. A. Cobb), junior nem-atologist, U. S. Dept. Agric., room

Linton, E., parasitologist, Dept. of Seiwell, H. R., assist. in zool., asst. Zool., Pennsylvania, room 146. MacCallum, G. A., parasitologist, Bal-room 123. MacCallum, G. A., parasitologist, Bal-timore, Bureau of Fisheries.

timore, Bureau of Woods Hole, room 144. Fisheries, Perkins, E. B., Harvard, room 123.

Schroeder, W. C., field assist. at large, U. S. Bur. Fisheries, room 140

Sette, O. E., assist. in charge, Div. of Fishery Industries, room 140. Stough, H. B., asst. prof. zool. Idaho, room 123.

Wilson, C. B., prof. of biol., State Normal School, Westfield, Mass., room 123.

# **EXHIBIT**

Scientific Instruments

July 19th to 30th

## LECTURE HALL

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All persons are warned to comply with the new "right of way" law

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for fire apparatus and not park within 600 feet of any fire, and also to "pull over" and permit apparatus to pass.

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Location

Hilton's, Glendon Rd., W. H. Nobska Pt. Section, W. Hole

Fenno's Farm House, Quissett

Marshall's House, Quissett

West & Millfield Sts., W. H. U. S. Buoy Yard, W. Hole Steamboat Wharf, W. Hole

Prospect St., & Buz. Bay Ave.

Sandwich & Brick Kiln Rds. East Falmouth, Fuller's Cor.

Penzance Point Section East Falmouth Post Office

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Waquoit District

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Terrace Gables Hotel Vineyard Sound Hotel

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Cor. Main and Walker Sts.

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THE COLLECTING NET

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PAGE SIX			
NEW BEDFORD, MARTHAS VINE YARD & NANTUCKET STEAM, BOAT LINE         BOAT LINE         Steamers Operated on Eastern Standard Time         Summer Schedule         Corrected to July 4, 1926 Week Days         Week Days         Leave A.M. A.M. P.M. N. Bedford 7.10       8.45       1.30       4.30         Woods Hole 8.40       10.15       2.50       6.00         Oue V.Haven 11.50       6.15       Standard Time         Sundays         A.M. P.M. Due V.Haven 11.50       6.15       Standard Time         Sundays         A.M. P.M. Leave New Bedford, 7.45       5.30         Leave A.M A.M. P.M. Nantucket, 6.00       12.35       10.00         Week Days       A.M. P.M. 12.15       P.M. Nantucket, 6.00       12.30       Mails Close       5.45       a.m. 6         Leave A.M A.M. P.M. P.M. Nantucket, 6.00       12.30       Office Hours 6 a.m. to 6.50 p.m. No Mails on Sunday         Mails Close       5.45       a.m. 6       "       Gammer S.45       a.m. 7       Mails on Sunday         Due Natticket, 12.00       11.55       Mails on Sunday       Mails on Sunday		BUSS SCHEDULE         SUMMER SCHEDULE In Effect June 21 to September 1, 1926, inclusive.         Rates Between—Woods Hole and Falmouth, 25c; Woods Hole and Quissett, 20c; Woods Hole and Falmouth Heights, 40c; Quissett and Falmouth, 20c; Falmouth and Falmouth Heights, 20c.         Children, Woods Hole and Falmouth, Round Trip, 25c.         Children, Woods Hole and Falmouth, Round Trip, 25c.         To Trip Tickets between Woods Hole and Falmouth \$2.00 (Adults only).         Daylight Saving Time A. M.         Vedots Hole, 8.05 10.00 11.20 1.45 3.10 5.00 6.45 7.45 9.30 10.15 Falmouth, 8.30 10.20 11.45 [2.05 3.30 5.20 *7.00 *8.00 *9.45 *10.30 De         Fal. Heights, 8.40 10.30 11.55 2.15 3.40 5.30	
DAYLIGHT :	CHEDULE SAVING TIME Douth—Week Days.	kornez-Service between Fainor ings, is as follows: 10 passeng 9.00 p.m. moving pictures. Leave Falmouth Heights, Arrive Falmouth, Leave Falmouth, Arrive Falmouth Heights,	6.45         7.30         8.30         9.30           7.00         7.45         8.45         9.45           7.05         8.00         9.00         11.00           7.25         8.15         9.15         11.15
A.M.S A.M. A.M. F Boston, 7.05 8.30 1 Brockton, 7.05 8.30 1 Brockton, 7.45 9.06 . Middleboro, 8.10 9.29 . Wareham, 8.32 9.53 . Buzzards Bay 7.00 8.45 10.10 2 Mon. Beach, 7.05 8.50 10.15 2 Pocasset, 7.10 8.55 10.20 2 Cataumet, 7.15 9.00 10.26 2 N. Falmouth, 7.19 9.03 10.31 2 W. Falmouth 7.29 9.10 10.40 2 Falmouth, 7.37 9.18 10.53		Compliments of PENZANCE GARAGE WOODS HOLE, MASS. Day or Night A. L. A. Phone 652. Towing	THE COLEMAN & BELL COMPANY Incorporated Manufacturing Chemists NORWOOD, OH10 U. S. A.
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Middleboro, 7.54 Brockton, 8.22 Boston, 9.00 SUNDA	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ICE CREAM DRINKS REFRESHMENTS Open from 8:30 A. M. Until 11:00 P. M.	Bug Hunters! Don't chase all over town for food for your beach parties. We have everything in our store next to the Post Office FRESH BREAD, MEAT and ALL CANNED GOODS QUICK SERVICE LOW PRICES Morrison's Market Woods Hole.

#### THE SEA URCHIN

#### IT PRICKS WITHOUT DISCRIMINATION

It is with great trepidation that we learn of the establishment of a daily newspaper which is to be the official organ of the Marine Biological Labora-The staff selected by the tory. executive committee is given below:

Dr. Thomas Hunt Morgan, Editor-in-chief.

Dr. Henry J. Fry, Assistant Editor.

Dr. C. R. Plunkett, Business Manager.

Miss Louise Duggar, Private Secretary to the business manager.

It will be a csae of the survival of the fittest, but we think that our weekly will persist despite our formidable competitor.

All members of the laboratory are invited to attend the christening of Clark's trusty sailboat of the Harvard Medical School, at 3:00 P. M. on Saturday afternoon. A bottle of Canada Dry will be broken across the bow. It has not yet been decided July 6. The varied behavior whether it shall bear the name "Ima Gona" or "Sinkanaa." vertebrate blood and of hemo-'Ima Gona" or "Sinkanaa.'

A committee was organized to install a telephone in the office of the custodian of apparatus. The receiver only was deemed sufficient.

A bicycle race is to be staged between Wesleyan and Columbia shortly. The Columbia representative will be assisted by his own chromosomic group.

Dr. Darby is trying to work lines. off superfluous flesh on the dance floor. The outlook is bright if the floor holds. He also has the record of being the only man to play a 7-0 tennis for Experimental Evolution at match.

of the International Horseshoe- Chromosome pitching Association and general Genetic Behavior in Sciara and manager of the Amoeba Distrib- the Problems They Present.' uting Corporation of America, has been having the "goll darndest" time this summer. sides taking charge of the in- supplement each other, both are vertebrates, commuting week printed below. ends and pitching horseshoes, he (1) The lecturer described a ends and pitching horseshoes, he has been appointed official novel relationship between the chaperon of the Dalhousie con- chromosomes of the two sexes in tingent.

community. Any one wishing division of a monocentric mitobuying his gasoline in single female, which are confined to the gallon lots and before the sum- male line, "sex-limited." mer is over he hopes to wean the car.

#### **DISTINGUISHED BIOLO-**GISTS DELIVER LECTURES

(Continued from Page 1)

between structure and function in the establishment of reflexes from the primary system to those of increasing complexity in port o fprogress. amphibian larvae give a new nd fundamntal clew to problems of nervous regulation and structure The speaker ended with the general conclusion that nerve cells continue their growth and establish new relations during life. We should not then think of the nervous system even in adults of higher forms as a set of fixed and finally differentiated elements but as constantly capable of changes and extensions in its units, with new possibilities of reactions and associations.

#### H. McE. K.

#### **Blood Respiration**

Professor Alfred C. Redfield, gave a paper on "The Respiratory Proteins of the Blood" in theauditorium, Tuesday evening, cyanin in invertebrate blood in relation to oxygen and carbon dioxide were set forth very fully and thoroughly by the speaker. A considerable series of animals were studied and many curves and tables were thrown on the screen furnishing a valuable set of comparative data for reference in further blood studies; and a surprising individuality and variability was discovered in the behavior of the blood of various organisms along these

#### H, McE, K.

#### Genetics of Sciara

Dr. C. W. Metz, of the Station Dr. J. A. Dawson, president ture on "Aberrant Features of Behavior and Two abstracts of this page have been received by The Biolog and Be-since, to a certain extent, they

the fungus-gnat Sciara, and several peculiarities in chromosome Dr. Read Ellsworth's "limou-sine" has been accepted by the occurrence at one spermatocyte to use it should apply to the sis, involving cell division and physician of the laboratory but chromosome segregation. In be sure to bring pliers along to these fifties the male possesses turn the key. Dr. Ellsworth is two more chromosomes than the

Both microscopic study and breeding experiments indicate

nal and paternal chromosomes. the female has not been com-This opens up new lines of work pleted, peculiarities of distributo compare with the condition in tion are expected to be encountthe females and to explain dif-ered that supplement those of ferences with other forms. male. Many lantern slides were shown to illustrate this interesting re-

(2)The cytological phenomena o fthree species of the rather primitive fly Sciara were investigated. The chromosome groups and the characteristics of the re- Rochester, treated the members duction process were found to be essentially the same in all ing discussion of certain phases three species and to differ very of the energetics of muscular widely from conditions found in contraction. Dr. Fenn was the other diptera studied. The fe- first American student to work male possesses four pairs of in the laboratory of Professor chromosomes and the male those A. V. Hill, in University College, four pairs and in addition two London, and much of his lecture very large chromosomes that are therefore referred to as "sex-limited." After the last sperma-After the last spermatogonial division the ten chromosomes apparently do not conjugate, but segregate into two groups with a monopolar spindle. One group of four is cast off in a small bud. The other group, four plus both of the sex-limited chromosomes, there undergoes an equatorial division and a second bud with five chromosomes chromosomes and three of the four other chromosomes). One of the four pairs of chromosomes divides but both daughter halves remain in the main cell body. This main cell body then transforms directly into a spermatozoon, one coming from each final spermatogonium, all sperms aptly called them, by means of bein galike with seven chromoof a mutant character was such during the actual process of conas to suggest that a male re-traction and relaxation.

that in the males an unusual re- ceives it only from the mother. lation exists between the mater- While the cytological study of

#### C. B. B.

#### Muscular Activity

On July 21, in the fifth of the series of evening lectures, Dr. Wallace O. Fenn, professor of physiology at the University of of the laboratory to an interestwas devoted to an account of the work carried out by him in this laboratory. Using the delicate methods for the measurement of heat devised by Hill, Dr. Fenn was able to show that the muscle, following stimulation, liberated more energy when it was allowed to shorten than when shortening was prevented, and that the muscle is able to adjust the energy expanded to the load to be lifted. This was is given off (two sex-limited true even when the load was altered after the muscle had begun to shorten. Furthermore during relaxation a definite liberation of heat takes place which is proportional to the load to be These facts were lowered. brought out by a number of in-genious "tricks," as Dr. Fenn which the load on a muscle somes. The mode of inheritance could be changed at any time

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#### WEDNESDAY and THURSDAY, JULY 28-29 Matinee Wednesday Only at 2.30

The foremost actor in America in the screen adaptation of Mel-'s "Moby Dick," the epic of the New Bedford Whaling Days. The tang of the sea—the thrill of the chasc—all the adventure ville's and romance of the lives of the intrepid heroes of a famous era in this masterpiece of the deep.

Admission 50 Cents; Children 25 Cents

FRIDAY, JULY 30, 1926. "THE SAVAGE" With BEN LYON and MAY McAVOY

Come over-meet the savage-he's a bad, bad boy, but you'll love him-he never was much in a dinner coat-but in a bear skin he knocks 'em all cold. COMEDY

TOPICS

#### SATURDAY, JULY 31, 1926. Matinee at 2:30

Zane Grey's "BORN TO THE WEST"

A Paramount Picture with JACK HOLT and RAYMOND HATTON If you have red blood in your veins, this picture is for you. Slam-bang action—thundering thrills and pleasing romance. PATHE NEWS COMEDY

#### ALGAE

This week's tale of adventure begins fittingly with the seminar held Monday evening in the old lecture hall. The Rev. A. M. Keefe who spoke on "Sargassum, with Notes on the Sargassum Sea," and completely destroyed Sea," and completely destroyed any lurking romantic notions THE TENNIS TOURNAMENT that any of us may have had of this "Isle of Lost Ships." The aftermath of the seminar consisted of a large pot of mytili. crackers, and an overwhelming supply of fudge concocted by the hand of Fanny Fern Smith, decided that the moonlight on the beach was irresistable; and that, after all, if one is eating mytilus for the first time, it's better to do it in the dark. So the Botany Army marched down to the sea with the commissary department bringing up the rear. peared, we sang all the songs we have in all the keys available **DANCE AT THE** and in as mnay parts as could be wished until someone suggest-ed getting back in time for the morning lecture, and the army demobilized.

This week's seminar is ad-dressed by Dr. Fish of the Fish Commission, whose subject is "Life on the Open Ocean, as Seen from the Arcturus." The commissary department shows signs of continued activity and all looks well.

Dr. Lewis announces that the Twelfth Annual Indoor Track and Field Meet will be held in the Botany Laboratory on Mon- the members of the dance comday, Aug. 2.

#### **EMBRYOS**

Beginning Tuesday Dr. Packard lectures the embryology class on fertilization and cell lineage.

periments that were failures

Catherine Hinchey entertained during the week Miss Lydia Fletcher of Providence, R. I.

Conklin during the week end. Lida Brannon entertained a boy

friend. One thing that must not be forgotten is the peach treat that Bob Climenko held last Tuesday. Every member of the class received a peach, especially Dr. Rogers.

All the tournaments-men's and women's singles, men's doubles and mixe ddoubles-are to be finished up this week if possible. The women's singles are all played off except the finbut by a unanimous vote, it was als, which will be between Miss Field and Miss Holt. In the men's singles, Lancefield is up to the final bracket. Goodrich and Bennett have yet to play. Lewis plays the winner, and then the finals will be between Lancefield and one of these three.

## M. B. L. CLUB

(Continued from Page 1)

advantage of it, but by 10 o'clock there were approximately a hundred people dancing on both floors of the club.

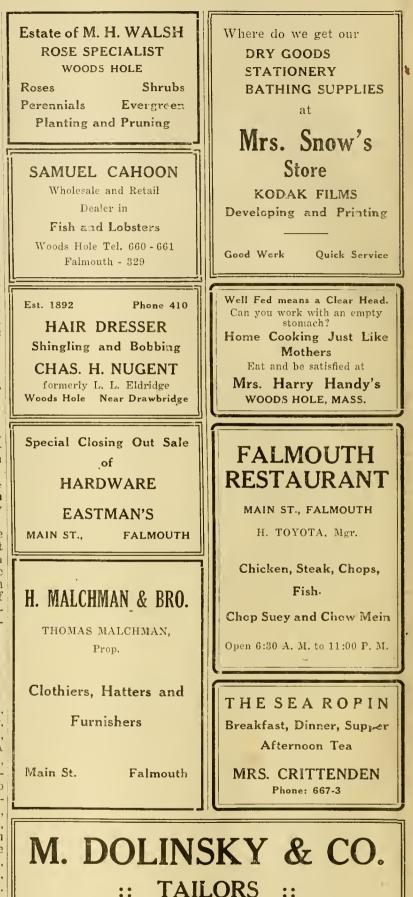
During the evening, delicious fruit punch was served which was rendered doubly delicious by the warmth of the evening.

It is generally agreed that the dance was by all odds the most delightful affair ever given in the club, and on all hands we hear nothing but the most lavish praise for the untiring efforts of mittee of which Mrs. McCutcheon was chairman.

#### "THE COLLECTING NET"

(Continued from page 1)

Ebb Tide, Woods Hole Ph, Protoplasm, King Crab, Puffer. on fertilization and cell lineage. Dr. E. E. Just gave a special lec-ture Friday on fertilization. This has been a very busy week in the lab. Dr. Rogers didn't seem to mind the heat and thought we ought to work even if we did have headaches. Most of the students are repeating ex-periments that were failures Scapit (Jesued Weekly) Town Squirt (Issued Weekly), Town during his reign, but that is all in the interests of science and nobody really cares. MarBioLab News, Limulus. Volvox, Agassiz News, M. B. L. News, Bug Hunters Snews, M. B. Lism, Lobster Claw, Aquari-Dr. Lindsey and Mr. Matteson um, Larboard Log, Biologue, of Seymour, Ct., visited Cecile Woods Hole Mixer.



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# THE COLLECTING NET

VOL. 1. NO. 3

WOODS HOLE, MASS., THURSDAY, AUGUST 5

#### **TOWN TOPICS**

The Falmouth Nursing Association will give a fete on Village Green in Falmouth, on Thursday, Aug. 5. The following attractions are listed: marine biological exhibition, Punch and Judy, fortune telling, clown ring throwing, putting match, Bridgewater band. block dancing, and booths dispensing everything imaginable. Lots of fun and a worthy cause are the reasons why the Village Green will be so popular on Thursday evening.

Sir Frederick Whyte, president of the legislative assembly in India, 1920-1925, and now a summer resident of Woods Hole, addressed the sixth annual session of the Institute of Politics, now being held at Williams College on the general political sit-uation in the Orient at the present moment. He asserted that much of the "yellow peril" propaganda that is being dis-seminated in this country is purely mythical and he severely criticized the attitude taken by many of the "critics" of the situation. His address was delivered on July 30.

An afternoon tea party was given at the Sea Robin for twelve children on Thursday afternoon, in. honor of the Misses Pauline and Sally Crittenden of New York.

The annual fair of the Church Work Association of the Church of the Messiah was a great success. The proceeds from the fair exceeded those of last year by a nominal sum.

## **Currents** in Hole

At the following hours the current in the hole turns to run from Buzzards Bays to Vineyard Sound:

Aug.	6.	 .3:38	A.M.	
"		 .4:27	66	
66	8.	 .5:10	66	
66	9.	.5:58	"	
66		 .6:38	66	
66		 .7:18	66	
66		 .7:59	66	
66		 .8:46	66	

In each case the current changes six hours later and runs from the Sound to the Bay.

#### Laboratory Activities

Friday, Aug. 6, 4:30 - 6:00 P. M. Bureau of Fisheries Tea. Friday, Aug. 6, 8:00 P. M. Even-

ing Lecture. "Absorption of Kations and Anions by Plant Roots", by Dr. Howard S. Reed, Graduate School of Tropical Agriculture, University of California.

Saturday, Aug. 7, 8:00-P. M. Club Saturday, Aug. 7, 8:00-P. M. Club Plays. Auditorium. Open to the Public. Tickets for the plays will be placed on sale at the M. B. L. Club on Friday at 9:00 A. M. Prices: reserved seats, \$1.25 and \$1.00; unre-served seats, \$.75.
Monday, Aug. 9, 12:00 M: In-struction ends. 4/00 Pro-

#### PROFESSOR CALKINS SAILS FOR EUROPE

Professor Gary N. Calkins, director of the protozoology course at the Laboratory, sailed from Boston for Europe on Sunday, August 1st, at 2:00 P. M. on the Cedric. For the next year, he will hold the office of Director of the American University at Paris. At the same time he intends to do some research abroad and to visit as many of the foreign laboratories as possible. About January 15 he will return to New York for three months after which he intends to return again to Paris to remain there until October, 1927.

During Dr. Calkins' absence this summer the protozoology course will be in the hands of course will be in the hands of tory at Woods Hole, Mass., on Dr. Mary S. MacDougall and Tuesday, August 10th, at 12 Dr. Woolford B. Baker.

#### An Aquarium Curiosity

The usual work on fishes contains very little about the in-teresting fish, called the seahorse.

Typical sea-horses (Hippopocampus is derived from the invertebrate laboratory.

(Continued on Page 2)

## **UNCATENA ADRIFT OFF JUNIPER POINT**

### Coast Guard Boats Prevent Stranding of Well-**Known Passenger Boats**

Shortly after leaving the dock at Woods Hole, Tuesday evening, August 3, the Uncatena, bound for points on Marthas Vineyard, was disabled through the sudden breaking of the radius arm of the starboard side-wheel.

On Monday, August 16. there is scheduled an M. B. L. investi-gators' picnic to Tarpaulin Cove if the weather proves favorable.

Investigators will be asked to sign up for themselves and their immediate families on the bulletin board of the laboratory as 1 is necessary to know ahead of time the number to go on the Cayadetta.

Hot coffee will be served at the picnic, but all investigators will be asked to bring their own sandwiches. (A collection may) be taken up on the boat to cover the cost of clams!)

#### **Corporation** Meeting

The annual meeting of the Corporation of the Marine Biological Laboratory will be held in the auditorium of the laborao'clock noon for the election of officers and trustees and the BUREAU OF FISHERIES transaction of such business as

#### PROIFOELHELMATHCOIDA

How does this tongue twisting scientific terminology suit our biological intuitions? Confidentially it's nothing but a proto- of the series founded in honor result in the popular idea of its likeness to a structure being ab-popular idea of its likeness to a structure being ab-popular idea of its likeness to a sorbed by a tapeworm, which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm, which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm, which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm, which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm, which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm, which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm which is poor creature being ab-popular idea of its likeness to a sorbed by a tapeworm which is poor creature being abhorse's head. In fact by attach-ing a coiled worm to the base ascaris, which fell prey to the of a chessboard knight there is obtained an inanimate imitation and that starfishobtained an inanimate imitation and that starfish inhabits the of a sea-horse. The name Hip- confines of an aquarium in the and even homozygous material, So

(Continued on Page 6)

The Uncatena was well-filled M. B. L. INVESTIGATORS HAVE PICNIC ward deck held its capacity of automobiles when it started out from Woods Hole. Suddenly a series of grindings was heard from the shore and the boat was observed to be acting in a strange fashion. Rapidly it drifted around Juniper Point and became lost to the view of those in Woods Hole. The capta.n of th boat ordered the anchor to be lowered.

Coast Guard To Rescue

About this time the Coast Guard beat, CG 237, appeared on the scene and made fast by a line to the bow of the drifting boat. This puny but powerful rescue boat then put on all power and gradually got under way. After it had ar-ived in Woods Hole Harbor with its charge well in tow, an-other Coast Guard boat came up and between the two of them, they cased it into dock. accompanied by stern com-mands of the captain of the Uncatena and the tinkling of bells on the rescue boats.

Two women were the first to may come before the meeting. descend the gangplank, the

(Continued on Page 8)

#### Sedgwick Memorial Lecture Delivered by Dr. Morgan

In delivering the fifth lecture

in physiological work and has Greek hippos, horse, and kampe, there you have it, the story of developed methods for securing worm or caterpillar. However the life history of the inverte- such materials. Often genetic

(Continued on Page 5)

#### Bureau of Fisheries

#### (Continued from Page 1)

the head of the sea-horse and the head of a horse. The con-

function- prehension -resulting from its power to eurl inwards and sideways. The tail is wound around the stem of some plant and the body held high illumination. quite erect. The body is thrust outward at various angles, the tail being wound around the plant in a double coil. One eye lyn Museum, N. Y. Bureau of been rather sparse, due to activi- before the formal closing of the fish can move its eyes independently of each other, and in different directions. Its actions remind one of a near-sighted person.

When it releases itself from its support it moves in a vertical plane, tail curved inward, the dorsal fin undulating like a screw propeller, and its pectorals vibrating in harmony.

The natural food of the seahorse consists of small crustacea, such as copepods, sand fleas. shrimps and the young of higher forms. In aquaria a substitute the larvae of the common gnat fact that he became affiliated In the morning's lecture, the or mosquito. The fish will with the Bureau of Fisheries class marvelled at the enormous slowly approach its food, peer- four years earlier than the capacity of some of the ciliates. ing at it and suddenly the ani-mal disappears as though sucked freshments were served and domonstructure proceeded to in. The food must be at rest for everyone spent an enjoyable demonstrate a quite similar cathe sea-horse is too slow to get evening. anything moving.

This popular curiosity can be seen in the aquarium of the Bureau of Fisheries. It is a recent addition, having been obtained during the past week from the New York Aquarium by Robert A. Goffin, collector of the bureau.

#### The Logger-Head Turtle

onvidce, is the large sea-turtle the protozoa. In the laboratory, about the bursting and conseseen in the Bureau of Fisheries the incessant hunting for species quent dissolution of the animal pool. This is the fourth year different from those already that it has been on exhibition. found and drawn still continues. It was captured in a fishermen. It is both a disappointment and time, for they felt just that way. net in Buzzards Bay directly a source of some satisfaction to At least, they sat around very beyond Penzance Point. Each go over a drop of pond-water, quietly for a considerable time, winter it is displayed in the City and when the various forms no one venturing to exercise, Aquarium of Boston and in the come into the field of the microsummer it is brought back to scope, to be able to recognize a About 4:30, after an afternoon of the best known in Maine. It open pool.

present size, then weighing about from fifty to sixty pounds. Out as ever, in spite of the usual Its carapace is covered with doses of such "nerve tonics" as

bony plates, the highest portion neutral red and iodine solution. lology tea was held at the M. B. in the front and the widest near Certain members of the class L. Club from 4:00 to 5:30, and, the middle. At the present scent to have a propensity for like the other affairs of the class time the length of the carapace finding particularly nervous it was a big success, as all will aside from the superficial re-is three feet and the width at beasts, for they claim that every semblance of parts, the only homology that exists is between while the weight is over one peg outside the building, the pro-members of the class were abhundred pounds.

tion of the finless tail, which de-prives the fish of locomotion, however it gives the tail a new blue. The young under restrict-function of locomotion to ward transparent or opaque function of locomotion to blue. The young under restrict-function of locomotion to blue. The young under restrict-function of locomotion to blue. The young under restricted environment are found to be given way to some extent to the brought back some cultures of photophilous, responding to a preparation of stained perma-pond water which have been large area of low illumination ment mounts. Here the bugs are found to contain some very inrather than to a small area of subjected to the drastic meas- teresting protozoa.

#### **Recent Arrivals**

will look in one direction and Fisheries Laboratory, room 123, ties outside. The protozoology course due to the fact that Dr. the other will remain in position Fries, E. G. B., Harvard picnic, held Thursday, July 22nd, Calkins sailed for Europe on or roll the opposite way. This Graduate School. Bureau of was a great success. The Caya-Sunday, August 1st. demonstrates clearly that the Fisheries Laboratory, room 123. detta left the dock at 11:45 with

> He told of the founding of the Fisheries, and about the lives of men connected with it, as Spencer Baird and Vinal Edwards.

## AOZOTORP

In the lectures by Professor Gary N. Calkins, the discussion layer surrounding the of the derived organization of

stricted portion of the sea-horse does not correspond with the abdomen, the fish having no true neck. There is a eurious modifica-tion of the finless tail, which deures of sticking, stopping, staining and studying.

But on the whole, the labora-series of thirty lectures. Woods Hole Reminiscences a merry crowd of about 40 peo- in the laboratory is completed Dr. Edward Linton gave an ple aboard. After a delightful extremely interesting lecture trip across Vineyard Sound, the last Thursday evening to a de-board docked at Tarpaulin Cove. lightful audience at the Fisher- The day was an ideal one for a ies. The subject of his talk was picnic, and the swimming was "Reminiscences of Woods Hole," very enjoyable. The sandy and many a chuckle was heard beach is an excellent one and the and many a chuckle was heard as he related curious incidents place is a delightful picnic of his early acquaintances here. He told of the founding of the was certainly not the least enjoyable part of the program. Dinner was in order immediately after landing, and it is astound-Dr. E. G. Wilson added a few ing what a boat-ride and a picnic remarks and brought out the spirit will do to one's appetite. class marvelled at the enormous SOUTH HARPWELL pacity, devouring a tremendous Ocean View Hotel at South quantity of mytili, lobster, sausage, pickles, etc., etc. too numerous to mention so that the original self must have been re duced to the thinnest possible visible 20 miles at sea. 'gastric Also, the fact was vacuoles." protožoa has given place to the pointed out in the morning, in more interesting subject of the the specific case of didinium, fundamental organization, or the that after a heavy meal, he must fundamental vital activities of not be disturbed in any way, as The logger-head turtle, Chel- living things, as exemplified by the slightest irritation will bring These on the pienic know exactly how Didinium feels at such a Woods Hole to be placed in the large number of them, even of swimming and boating and was owned by Eli Perry, Port-though they are not available as games, all scrambled to get land. When first caught this turtle additional species, because they have already been drawn. Was approximately one-half its have already been drawn.

tozoa proves that he possesses at sent, failing to act their part as Little experimentation has least one of the attributes of liv- hosts at the tea. There is some

On Saturday, July 31st, Dr. G. N. Calkins gave the last of a The

The identification of species tion which comes Monday morning, August 9th.

The social end of the class has been well taken care of this past week. On Thursday an ice cream and cake party was held with the funds left over from the class picnic. On Saturday another ice cream and eake party was held on the proceeds of a series of class pictures.

# HOTEL BURNS

Fifty guests fled from the Harpwell, Me., as the house was destroyed by fire at midnight last Friday. The flames were

The origin of the fire was undetermined. A fiery cross had been burning on a nearby hill shortly before the fire in the hotel was discovered but whether sparks from that or from the hostelry's kitchen started the flames, firemen were undecided. No guest was injured but practically lost all their possessions.

The hotel which stood on an eminence, overlooking Caseo bay, formerly was the Lawson house and for 50 years was one

The Ocean View House was

#### THE SEA URCHIN

#### IT PRICKS WITHOUT DISCRIMINATION

It was seriously suggested by drawing card. an influential member of the laboratory community that this column be christened "The Botany Lab the other day, Jo-Drosophila." The editorial staff seph Copeland severely sprained carefully considered this pro- his shoulder while attempting posal which seemed especially to pat himself on the back for appropriate owing to certain having identified, all by his own circumstances which can be ap-preciated better by them than had one of the teams. The symby most of the readers of the pathy of the general public is paper. However, their better solicited. judgment prevailed, and hence its present name.

on Saturday night by his rapid horrified at the wanton cruelty He turned out to be more unpopular than one would suppose. Although he almost went down the Sedgwick Memorial Lecture on his knees and presented a pathetic picture of pensiveness, two charm-ing young ladies absolutely re-with bicycles and using in their fused to dance with him.

For the benefit of those who laboratory. want to know—the new fire alarm was selected because of its musical quality. It is known unofficially as the sick cow and the dying calf.

Dr. Robert Chambers caught his train with fifteen seconds to spare on his last trip to North Truro. Last year's record shows that in one case he had thirty seconds less to spare.

immediate fruit. One of our ladies could not come to a lecture because, as her friend put it, she was afflicted with ostracodermitus.

atic" marriages this year again -among their Drosophila.

Mrs. Calkins and Mrs. Dunlap are organizing a woman's secret society. The nature of the society is veiled in mystery, but we learn that the qualifications for membership are startling.

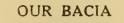
The official representative of the U.S. Post Office at Woods Hole has organized his staff so that the New York morning papers, mailed daily during the summer, will reach their sub-scribers now at the laboratory on or before Christmas Eve.

Mr. Walter O. Luscomb, we learn, has just traded his horse for a second-hand motorcycle.

Ringling Bros. and Barnum est, this episode has had a pecuand Bailey have engaged for the liar effect on the physiology winter at outlandish salaries the class. Several of its members

It appears that a representative of the Society for the Pre-A certain prominent botanist ventino of Cruelty to Animals demonstrated his enthusiasm attended Dr. Chambers' lecture for dancing at the Club licuse and demonstration. He was and determined entrance of bayoneting a living soul, through the doors of the club. Court action will be taken.

> place his four-chromosome car as a means of conveyance to the



#### Extra! Fenn Says "No Fair"

It will be recalled that in the first, last, and only issue of the Picnic. Question Mark, it was rumored that, in order to come to a decision in the weighty problem-

Oxidation Potentials on July 24 the Nervous System. Dr. Patten's lecture has born mediate fruit. One of our dies could not come to a lec-have recourse to the flippant and the Course. process of coin-tossing. Such has been the case. But the mat-Such ter has been decided, not by the hand of Fate alone, according The third floor "banana group" is performing "Morgan-view with the victim view with the victim.

In introducing his lecture on July 24, Dr. Fenn took the opportunity to make certain very grave charges against his colleague and opponent in the matter. According to his statement, there is ample evidence that the penny employed in the contest was, like some of the products of our genetics laboratory, a two-headed monster. Realizing the seriousness of such an allegation we made haste to interview Dr. Amberson, but he "had nothing to say," further than that he had been as horribly shocked by the accusation as we had. Since then we have been unable to locate Dr. Fenn, so that the ultimate outcome of the allegation is as yet uncertain.

Apart from its human inter-

services of Dr. Robert Chambers have become interested in the and Dr. P. Reznikoff. It is be- effectiveness of various physicolieved that their troupe of well chemical properties on monstertrained Amoebae will be a great formation on copper-penny embryos. The lecture-program for last week was as follows:

Monday, July 26. Dr. B. Meigs, Some Aspects of the Relation between Nutrition and Health.

Tuesday, July 27, Dr. E. M. Landis, Physiology of Capillaries.

Wednesday, July 28, Dr. D. J. Edwards, Heart Physiology with Particular Reference to Conduction

Thursday, July 29, Dr. Hallowell Davis, Metabolism of Nerve.

Friday, July 30, Dr. Frank Lillie, Protoplasmic Conduction.

Saturday, July 31, Dr. K. Hartline, Some Photo-biologic Reactions.

On Thursday of last week, Dr. The biologist who delivered Knowlton took over the laboratory work from Dr. Amberson. The list of the remaining lec-

tures in physiology follows: Monday, Aug. 2, Dr. F. P. Knowlton, The Mechanism of Nervous Conduction, with an Analysis of the Various Phases.

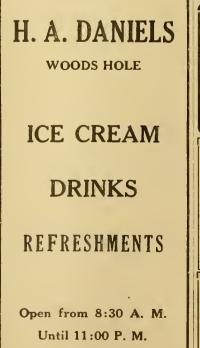
Tuesday, Aug. 3, Dr. Knowlton. Conclusion of the Above.

Wednesday, Aug. 4, Dr. C. F. A. Pantin, Some Phases of Ameboid Movement, with Par-ticular Reference to Ionic Influences.

Thursday, Aug. 5, Physiology

Friday, Aug. 6, Dr. P. H. Mitchell.

cision in the weighty problem— Saturday, Aug. 7, Dr. Knowl-Who Should Give the Lecture on ton, Comparative Physiology of







THE SEA ROBIN Breakfast, Dinner, Supper

Afternoon Tea

MRS. CRITTENDEN Phone: 667-3

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### The Collecting Net

Issued under the auspices of The M. B. L. Club

#### **Club** Officers

D. J. Edwards .....Pres. M. Sampson ......Sec.-Treas. fore the members of the corpor-Florence Tinkham. Choir. House Com., ation at their next meeting we and well known through his Membranes." Dr. Michaelis de-Marion Rea..... Chair. Social Com. believe that they would approve numerous publications which scribed the properties of a series

#### **Editorial Staff**

Contributing Editors Margaret Speidel. Investigator News C. H. Willey.....Aozotorp F. I. Hollander.....Our Bacia A. S. Eichorn...Bureau of Fisheries problems of biology, and a mas-broblems of biology, and a mas-Eleanor Sloane .Proifoelhelmathcoida terpiece in clearness and sim-Helen Jennings......Town Topics plicity, are given on Tuesday hold the key to his scientific tential differences arising across

# SCIENTIFIC WORKERS

charge made for food at the mess, and yet one of the elements which makes this possible seems open to criticism. We refer to the practice of charging "outsiders" at the \$10.00 per week rate. At best it can hardly be called a democratic principle. and when it is applied to a fellow scientist who for one reason most needed to help us in our or another is not registered as a work. And the spacious room laboratory worker it becomes especially unfortunate. Take the case of a Harvard physiologist who with his family visited the room. New copy, advertiselaboratory last week as a guest of certain members. The op-portunity of talking to this worker was of the greatest value to a considerable group, as was also the opportunity of hearing a lecture which he was invited to give before one of the classes. This guest was charged over forty per cent. more than the rest of us pay, thus in effect he was asked to contribute toward our board.

There is a large group of biologists who annually visit Woods Hole for short periods, and, although they do not regularly work in the laboratory, they contribute much to the support of the institution. Many of these investigators come from contributing laboratories, are former laboratory members or memers of the corporation; and as such have for years contributed to our welfare. They should be welcomed to the laboratory as one of our group, and the present discrimination against them, which in a number of cases has been a source

The mess is taxed to capacity oratory.

and with its present facilities '1 Dr. Patten Lectures on is doubtless necessary to impose limitations on the number who can eat there. All must appre-ciate that this necessity for clate that this necessity for The evening lecture of July On Friday evening, July 30, limitation presents a very diffi-cult problem, but is there not room for improvement. If the Will was given by room for improvement. If the of some modification of the present arrangement.

Editorial State Ware Cattell......Managing Editor Helen H. Cattell, L. B. Clark, Anna Dr. Merkel Jacobs, professor of physiology at the University of Dr. Werken Lacobs, professor of physiology at the University of ing a course in calculus for the biologists at the laboratory, by the information that there membranes are much more eftion connected with the course. corner of Spitzbergen certain meable and more porous collo-His lectures, whose contents are fossil animals, called Ostraco- dion membranes usually used. and Friday afternoons at quarter of five in the Old Lecture Hall. Those of us attending, Spitzbergen. greatly appreciate the time and The first p AND THE MESS All members of the M. B. L. rejoice at the very moderate charge made for food at the mess, and yet one of the eleinvestigation.

> laboratory for assigning us Reom 232 in the Brick Building for the official headquarters of *The Collecting Net*. In so doing they have given us what we satisfies our vanity!

All the business and editorial work is to be carried on in this ments, etc., however, may be left in Room 123 if it is more convenient for those concerned.

There are two ways in which the readers of "The Collecting Net" can help forward its usefulness. They are:

(1) Keeping one of the editors fully informed about the activities of present and past laboratory workers. Notes on new arrivals, departures, marriages, changes in position, etc. are read with inter-ort and appropriated by all t and appreciated by all. (2) Making a special point of purchasing supplies from or in other ways doing business with, the

name was accidentally omitted from the investigators' list in the "Director for 1926."

Esaki, Shiro, asst. prof. zool., Chicago (Keio Univ., Tokyo), emb., Br. 121.

of ill feeling, should be abol-ished. a flying visit to California and the "missing link" in animal are now back with us at the lab-evolution has at last been found. In or diffete solution to be clec-tropositive. On the acid side of

#### THE COLLECTING NET

## His Spitzbergen Trip

Dr. William Patten, professor perties of "Certain Artificial are based on embryological and of membranes of different deattn's graphic account of his pore diameter diminishes. Thus "hunt." The hunt was inspired thoroughly dried collodion brates; hence the expedition to solutions of the same electrolyte

tween the Giant Sea Scorpions of 51 millivolts will be observed We are duly grateful to the and the vertebrates, they resem- at 20 C when the concentration ble the former in the general ratio is 10:1. This E. M. F. is structure of the head, the paired produced by the definite orienjaws with lateral movement tation of anions and cations rather than the forward-back- across the membrane producing ward movement of all true ver- an electrical double layer. The tebrates, the oar-like append- E. M. F.'s measured across dried ages, the eyes and the minute collodion membranes closely apstructure of the shell-like proximate the theoretical maxiarmor; on the other hand, they mum, values of 50 to 55 millipossess certain characters of the volts being obtained. More perfishes; notably, fins and tail, meable membranes give lower Illustrations brought out these values. In the dried collodium

> ences during his trip from New are able to move through the York to Oslo and thence to pores. Across such membranes Spitzbergen. Numerous beauti-Spitzbergen. Numerous beautiful photographs and the lec-turer's descriptions made this when the membrane separates the large part of the lecture. Despite handicaps on one sort or another, the "hunt" was a suc- changed. cess.

Returning from Spitzbergen, Dr. Patten visited the State Museum at Stockholm where many firms that take advertising space in our paper. And when this is done, inform them that "I saw your ad-vertisement in "The Collecting Net." generosity Professions generosity, Professor Patten We regret that the following had the opportunity to study what are prehaps the most perfectly preserved fossils known to science: blood vessels, cranial nerve, and other delicate strucfures show up with such clearness that they seem more like tive, and cations can penetrate; Dr. and Mrs. Pantin of Ply-mouth, England, who were in priceless specimens led Pro-mouth is that they seem inforce like tive, and cations can penetrate; aniors are retarded or stopped, and the E. M. F. observed in the "concentration effect" shows the mouth, England, who were in priceless specimens led Pro-Woods Hole in June, have made fessor Pattern to conclude that for a specific provide the solution to be clec-E. E. J.

#### Dr. Michaelis Talks on Semi-Permeable Membrane

are based on embryological and of memoranes of university. These anadomical studies of rare differences arise from varia-beauty and marvellous techni- tions in the size of the channels car excellence. A large and ap-preciative audience heard Prof. permeability decreasing as the Thus

problem, the origin of the verte- the membrane when it separates in different concentration, or points. There now followed an ac-count of the Hunter's experi-ences during his thirt the dried conditium membranes the movement of anions appears to be almost completely suppressed; cations solutions of two different electrolytes; anions are not ex-

This differential effect upon the movement of anions and cations is correlated with the electrical charge upon the mem-brane. In most membranes, as in dried collodion, this charge 18 almost always negative. Through such membranes positively charged cations can move, negatively charged anions are retarded or completely stopped. In protein membranes the charge is determined by the pH. On the alkaline side of the isoelectric point the charge is nega-

(Continued on Page 5)

#### HISTORY OF THE PLAYS

An evening of one-act plays, given by and for the benefit of the M. B. L. Social and Tennis Clubs, has become an institution. They had their pre-cursors in impromptu vaudeville per-formances which had been gotten up sporadically from time immemorial. The first regular plays were presented in 1921, "Suppressed Desires" and "Behind the Beyond" formed the menu in a little theatre improvised in the Mess Hall. It was there that Lyon blossomed out as a comedian without a peer.

edian without a peer. For the next three years the plays were given in Community Hall. In 1922 the program consisted of "The Workhouse Ward", "The Pot-Boiler", and "The Willow Plate". The first mentioned was perhaps the most fin-ished of all the plays which have yet been given, with the parts taken by Mrs. Lowther, Dr. Lanton and Dr. Lefevre, all accomplished actors. The scenery for "The Willow Plate", de-signed by Mr. Vignoles was most ar-tistic.

signed by Mr. Vignoles was most ar-tistic. In 1923 there were presented "The Trysting Place", "The Birthday of the Infanta" and "Russian Drama as it Was and Is". Outstanding were the acting of Dr. Copeland, as the half-wit, and the marvelous wind-ma-chine devised by Dr. Thatcher. Next came "Bimbo the Pirate" and "The Wood's Hole Follies". The hit of the evening was a laboratory song

of the evening was a laboratory song arranged by the Glasers to the tune of "Mr. Gallagher", in which Mr. Gray, Capt. Veeder, and Alfred Hil-ton appeared on the stage for the first time.

first time. Last year the plays were given in the new M. B. L. Auditorium. "The Philosopher of Butterbiggens", "The Medicine Show", and "The Raft", were presented, with beautiful music between acts by Nancy Wilson and Barbara Lull. We can still hear the wails of Dr. Linton, the Philosopher, while for atmosphere, none of the wails of Dr. Linton, the Philosopher, while for atmosphere, none of the plays has surpassed "The Medicine Show". It would be difficult to de-cide which of the three — Dr. Mc-Clung, Dr. Lyon, or Dr. Simpson, por-traying Mississippi River characters, looked the most disreputable. Per-haps the prize should be given to Dr. Lyon, whose costume came in part from the village dump, and in part as a result of dragging the pond be-hind the Lyon's Den. The success of the plays has de-pended as much upon the workers be-

The success of the plays has de-pended as much upon the workers be-hind the scenes as upon the actors. A small army is required for direct-ing, making scenery, costumes and curtains, arranging lights, handling advertising, ticket sale, programs, posters, and ushering. It is doubtful whether there is to be found any-where a more willing or efficient group for such community enter-prises than in Wood's Hole. Need we add that the third essential, an intelligent and appreciative audience, can always be counted on in Wood's Hole? Hole?

#### THE TENNIS CLUB

The M. B. L. Tennis Club had its The M. B. L. Tennis Club had its simple beginnings more than a quar-ter of a century ago when Oliver Strong initiated play on the the level ground where the Mess Court now stands. This pre-cultural or Old Gravel period culminated in 1913, when the present Mess court was con-structed with the liberal aid of Ben-immin Strong.

## PLAYS FOR 1926

#### PROGRAM

The M. B. L. Club and The M. B. L. Tennis Club present

### The Annual Benefit Plays

M. B. L. AUDITORIUM — AUGUST 7, 1926.

Auspices: Marine Biological Laboratory

1.—THE ROBBERY—a comedy.....by Clare Kummer

#### CHARACTERS

#### (In order of appearance)

Fielding ..... L. C. Fogg Edic Upton .....Bobbie Rich Bob Hamilton ..... D. F. Robertson John Upton ..... C. E. McClung Margaret Upton ..... Mrs. F. Hollander

Scene: Hall above the Upton's Apartment.

2.—AU CLAIR DE LA LUNE,

Peggy Clark and Vicky Glaser.

3.—FRERE JACQUES

Vicky Glaser, Sara Meigs, Mary Meigs, Marjorie Mitchell, Margaret Mast, Camilla Riggs, Peggy Clark.

4.—THE DRUMS OF OUDE, a melodrama, by Austin Strong CHARACTERS

Stewart, a sentryJack Fog	g
Captain McGregor P. H. Mitche	11
Sargeant MacDougal W. W. Cranfor	d
Lieutenant Hartley W. F. Hahner	*t
Mrs. Clayton Lida Branno	n
Hindustan Servants P. W. Bowman	1,
A. S. Eichor	n

Scene: Interior of palace occupied by British in India.

5.—THE COURTSHIP OF MILES STANDISH.....

#### (in modern dress)

John ..... J. J. Murphey Priscilla ..... Miss Impi Arvo

6.—THE SAME OLD THING, a farce, by Roi Cooper McGrue CHARACTERS

	Julia Elsie Rosmeisl
	She Janet Spaulding
	The Other Man H. S. Fry
	He R. M. Ellsworth
	Author F. Hollander
е;	Her Boudoir.

#### COMMITTEES

General Chairman ..... E. R. and E. L. Clark Direction ...... A. Keefe, Dorothy Glaser, E. L. Clark Scenery......A. Hutton Vignoles, R. C. McGaun, L. S. Rowell, Eleanor Sloan.

Stage-Curtain:.....F. E. Chidester, C. A. Packard, E. A. Martin, D. E. Lancefield, M. Copeland.

Costumes: ... Mrs. D. J. Edwards, Mrs. Edwin Linton, Mrs. I. F. Lewis, Mrs. Meigs, Thelma Holmes, Doras Weston, Katherine Jeffers.

Properties: ..... Elizabeth Kinney, Marie Fish, Harriet Walker, H. S. Morton, May McKay, Madeline Field, Helen Dyer, Ruth Lynch, W. H. Dolley.

Lighting:.... .....S. E. Pond, W. R. Duryee Business Publicity: . . D. J. Edwards, E. R. Clark, R. Bennitt, C. Morrill, I. F. Lewis, Myra Sampson, Edith Elliot, Mary Howe, Marjorie Boyd, Helen Miller, W. W. Crawford, etc.

Scene

Gravel period culminated in 1913, when the present Mess court was con-structed with the liberal aid of Ben-jamin Strong. As Oliver Strong gradually with-drew from active play it became evi-dent that a more formal organization was needed. In 1917 a committee, composed of D. J. Edwards, E. R. Hoskins, and I. F. Lewis drew up a pan of re-organization which was put into effect. As attendance on the Laboratory was needed, and a successful effort to raise money for this purpose was composed of D. J. Edwards, E. R.

#### THE M. B. L. CLUB

The M. B. L. Club was organized in 1914 and received from the Laboratory Officials the use of the present clubhouse to be used as a social center for those associated with the M. B. L. and the Fish Commission. M. B. L. and the Fish Commission. The general expenses are met by club dues. In 1920, to meet the de-mand for more space in the Club-house, the decision to enlarge the porch at a cost of \$1,500.00 required the raising of money. The enter-tainment committee agreed that with only \$21 in the trasury, it must de-vise a plan for "getting rich quick". Kapid action followed and within a month the first M. B. L. production, modestly called "An Entertainment," was presented to a highly appreciamodestly called "An Entertainment, was presented to a highly apprecia-tive audience, and \$227 was received by the club. The necessity of raising more money and the enthusiastic de-

niore money and the enthusiastic de-mand for another play resulted in a second production in 1921 even more successful than the first. Encouraged by such success and by gifts to a special Porch Fund the porch was bunt and used in 1922, out only half paid for. Fortunately an annual play had then become a cradition and in 1923 over \$650 was realized. This was shared with the Fennis Club which proceeded to build the present tennis courts near the oathing beach. In subsequent years the club received part of the proboatning beach. In subsequent years the club received part of the pro-ceeds, and up to 1925, the sum of  $\mathfrak{p}1,874.50$  had been turned over for club uses. The porch was completely paid for and the remainder trans-ferred to a savings account to be used for special improvements for the Club. One of these, the redecorating of the interior of the Clubhouse, is now in progress. The Club has for several years borne the expense of reparing and transporting the bathseveral years borne the expense of repairing and transporting the bath-ing raft, and is now sponsoring the newest venture of the M. B. L. the publication of "The Collecting Net". It is now suggested that a West porch be built, and the need is evident after the last two evening denotes. be built, and the need is evident after the last two evening dances. To nelp make this and later necessary improvements the Club will need ad-ditional financial support. This can best be given through patronage of the play to be presented this year, which promises to be a greater suc-cess than those of all preceding years.

excellent surface is usually too moist for fast play. The balls soon become ascorored and heavy, so that the greatest problem at present before the Club is the improvement of these the Club is the improvement of these courts. Experiments are now plan-ned to determine whether tile drain-age will suffice to keep them dry, or whether it will be necessary to build them up by a liberal use of cinders with a new surface on top. It is planned to use for this purpose any funds that may come to the Club in the near future.

The club conducts an annual tour-nament which brings out keen com-petition in all events. Cups are pre-sented to the winners in the singles matches, and in the mixed doubles the names of the winners are in-scribed on the Strong Cup, a perma-nent trophy given by William Strong and kept in the Laboratory offices in

the Brick Building. The liberal support given the Tennis Club by the Players' Club has been for years one of the strongest factors in affording good tennis fa-cilities at a reasonable cost to work-ers at the Laboratory.

#### TICKET SALE

Ticket Sorthe plays will be placed on sale at the M. B. L. Club Friday at 9 A. M. Prices: reserved seats, \$1.25 and \$1.00; unreserved seats,

\*

# Dr. Michaelis Talks on

(Continued from Page 4)

the isoelectric point the membrane is positive, anions can that produces two sexes under penetrate, cations are retarded, certain "normal" conditions may and the more dilute solution is give quite a different result unnegatively charged.

consideration of the mechanisms of light-hours to which dioecious involved in the production of hemp was exposed, the develop-such differential effects. Sev-eral factors may be involved. tillate plants and of ovules on The hydration of the ions may male plants was brought about. account for the differences observed between a series of ions of the same size, and may con-tritute to the retardation of the a more important factor is the membrane charge itself. Nega-have been found and tested with tively charged membranes become so through the absorption of anions upon their surfaces, including the walls of the pores. Some or all of the anions may thereby be immobilized, while cations are still free to move.

Bioelectric phenomena, such as injury and action currents, may arise across living membranes in similar fashion, these non-living membranes serving as a model for their action.

W. R. A.

#### **Genetics and Development**

(Continued from Page 1)

variations and variations due to changes in environment are superficially indistinguishable. In the study of the size that Princess beans attain by growth, the genetic variations are reduce practically to zero by self-ferti-lization which is the normal method of propagation of this bean. Johannsen was thus able to show precisely what was the effect of differences in environment, and furthermore, was able to demonstrate the stability of the hereditary factors from generation to generation.

In tobacco the puzzling physiological problem of self-sterility was simplified by East's demon-stration that three distinct but probably of most cell-organs are

The complex data known for the increase of vigor upon crossing and the decline of that vigor upon inbreeding have been re-

acters as "abnormal abdomen" and "reduplicated legs" in Drosophila.

The chromosomal mechanism der other conditions. For ex-Such observations lead to a ample, by regulating the number Breeding tests by McPhee showed that the chromosome McPhee constitution had not altered but that the "sex" hau been reversed like results. Especially interest-

> The roles that the emzymes play in the determination of genetic chracters has long been studied in such favorable cases as hair-color in mice, the antho-cyanin series of colors in stocks and sweet peas and in the melanin pigments of various insects. Such enzymes may play the de-eiging role at any stage in the development of an organism. But between such enzymes and the primary controllers of de-velopment, the genes, there is probably often a very long chain of reactions, though it is possible that some enzymes are directly synthesized by the genes in the course of their own growth activities or during the so-called resting phase.

The emphasis put by various writers such as Robertson upon the roughly sigmoid curves that seem to hold for the data of many phases of growth was criticized on the ground that the processes involved are often so complex that such curves can have little more than descriptive value. The nature of the rates of increase of populations, of instration that three distinct but allelomorphic types of plant ex-isted. The failure to self-ferti-lize could then be shown to be due to the slower rate of growth of the pollen tubes where certain genetic constitutions were pres-ent. in this special limited sense may be said to grow by autocatalsis. C. B. B.

upon inbreeding have been re-duced to relatively simple Men-delian terms, and the problem Dr. E. J. Conklin, professor of put in shape for more purely physiological investigation, some of which has been carried out. On the other hand, the factors with which the physiologist deals, temperature, time, etc., the trustees of the laboratory.

## Dr. Michaelis Talks on Semi-Permeable Membrane must be as carefully controlled by a geneticist, as was illus-trated in the study of such char-**COUNCIL MEETING**

The customary summer meetof the Division of Biology and Agriculture of the National Re-aiso occur around this date. Agriculture of the National Re-search Council, will be held in Woods Hole this year on August 11th. The present membership of this body consists of L. J. Cole, chairman; I. W. Bailey, B. M. Duggar, C. E. Allen, R. A. Emerson, Ross G. Harrison, J. September, when it will return R. Schramm, and J. R. Mohler. to Washington.

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#### Proifoelhelmathcoida

#### (Continued from Page 1)

terrific expression.

The invertebrates found out last week that there are 'worms and worms, yea, and yet more worms" to cover the world for the first foot underground, lops, fiddler crabs, clams, mafor the first foot underground. The second fact that has been startling us is the discomforting knowledge that Annelid time it wasn't a case of "If I anatomy may be just as compli- could only find something" cated to handle as a one man row-boat out in the Hole. But the circulatory system of areni- back we were so proud of ourcola proved so interesting to two selves that the sun burst forth members of the class that they to evaporate our dampness and actually stayed away from mess in in the Hallelujah chorus. and hash for fifteen minutes to member of the class almost died that she had made a ventral instead of a dorsal incision.

the nereis pelagica and arenicola tell. to go to Kettle Cove. That is we thought we were going to tory work interfering with his Kettle Cove, but the winds and tennis, swimming, picnicking, or Captain Veeder decided that we other business is reminded that were not going that far; so much there is always time later in the "to the glory of the skipper and evening to dissect another arenithe discomfiture of the inverte- cola. brates" (for reference see R. C. three solid up and down hill eral cover-glasses. unfruitful, because we succeeded donkey bray? No doubt you in convincing one biologist that in convincing one biologist that know the sound of a fog horn?

Then Friday Dr. Bissonnette have you heard the invertebrate and the fifty-five invertebrates soprano? plunged into the Bryozoa for a Dr. Bennitt insists that the good day's work. Did you know color of the Portuguese Man-ofthat Lepralia boasts key holes War is ultra-violet. that will never be scratched up Dr. Dawson and Captain by a fumbling key and Hydroides Veeder have decided that, in orpression). Twelve hours after trips. we had finished up that job, we Then we stated last week that were setting out in a cool, clam-Guy Horseley took Lida Branmouth. rain drops, only our object this lab: time was to be as microscopic as 1.- Choose as flat a dish as possible.

markably successful; so that we brate course subjected to this were just about as damp as our own great-grandfather Limulus when we arrived. But the North Falmouth flats proved to be the most thickly populated fields yet lampas, nassa obseleta, and bittium were encountered; and this but "If I could only identify all the things I've found." Coming

After four days delving into finish a dissection. (Speaking the intricacies of Arthropoda of scientific enthusiasm and we have decided that lobsters as denying the flesh.) But our dis- a culinary field of operation are sections were made in fear and far too tame a sport for the intrembling when Dr. Martin told vertebrates, so we must needs us in no uncertain terms that discover how they go about the "This is the first year for a long process of mastication instead time that we have been able to of performing the same rite on secure enough arenicola for them. And, when we speak of everybody-so remember, no one Limulus we become so tangled can have a second helping!" No up in his nerve ring that we wonder our hands shook and one gaze delightedly at the simple spirals of Busycon. Simple? of shock when she discovered Just wait until we have waded through his nervous system on Monday and then we may have But we did take time off from an entirely different story to

Anyone who finds his labora-

All invertebrates who are in Parker) we were deposited on a the habit of promenading in the "shoreless coast" four miles laboratory are requested either four miles laboratory are requested either from the cove. Then one feeble to equip themselves with balloon member of this cross country ex- tires or else to go bare-foot for pedition asked Dr. Dawson microscopic animals have been plaintively "How far is it?" He so frightened by the tremors cleverly comforted, as he winked at Dr. Cole, "Only a mile or so." weighty reputation that they Then, that "so" turned out to be have stampeded and broken sev-

Shropshire sheep could not and Surely you are familiar with the never can be goats. Woods Hole fire signal. But

Dr. Bennitt insists that the

sports colors that would reduce der not to overload the *Caya*-any bathing beach "to a panic" *detta*, lunches shall be left on the (see H. McClellan for that ex-wharf on the remaining field

Then we stated last week that my, damp and slightly moist non to Falmouth for a hair cut Woods Hole rain for North Fal- but failed to mention the fact We felt like ship- that they rode gally homeward wrecked mariners holding out in a butcher's delivery wagon. our tongues to catch the precious | I ov: to draw salt water in the

possible and stop as few of the 2.-Use the tap with the finest nozzle. H2O globules as we could. Need- 3 .- Place the nozzle upon the dish. brenner are rejoicing in the arless to say none of us were re- 4 .--- Holding the dish in the left hand, rival of a daughter, now about

5.—Attempt to eatch the falling dish Chicago.

with the right hand and show some effort to arrest stream-ing nozzle with left hand. (A little practice wil be required to master this change of hands.)

6.-When neighboring drawings and dresses have been sufficiently spotted with salt water, retire quickly and quietly to your place.

Dr. and Mrs. Julius Bronfonturn on the water with the two weeks old. Dr. Bronfon-right. (Care should be taken to give the cock a vigorous and complete half turn.) summer at the University of

> The house of Dr. and Mrs. Kenneth A. Rice in the Gansett region is nearing completion and will soon be occupied by the Ricefamily.

Dr. E. G. Conklin who is making a trip around the world has 7.-Repeat exercise twice each day, been heard from in China.

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The Boyce Thompson Institute for Plant Research. Professor John M. Coulter.

Parrots At Home. Dr. Alexander Wetmore.

Hunting Bighorn With a Camera. Dr. Vernon Kellogg.

The Progress of Public Health In China. Dr. Reginald M. Atwater. Politics and the Public Health. James A. Tobey.

Excursions In Experimental Psychology. Professor Raymond Dodge. The Birth of Modern Science. John K. Robertson.

- The Friendship of Two Old-Time Naturalists. J. S. Wade. Geologic Romance of the Finger Lakes. Professor Herman L.
- Fairchi<sup>®</sup>d. Radio Talks On Science: The Planet Mars, James Stokley; How Plants Behave When Diseased, Professor B. M. Duggar.
- The Peculiarities of the Sensation of Cold. Professor D. Fraser
- The Progress of Science: Electric Farming; A Queer Kettle; Pro-fessor Lucien Gallois; Variation of the Sun's Heat.

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## CHILDREN'S SCHOOL **OF SCIENCE**

Ding! Dong! Came the famil- Woods Hole, general science. schoolhouse. The children of Woods Hole blinked. What could it mean? School in the iar sound from the little old summer? They hastened to find are taken occasionally that the out.

when a group of energetic women, namely, Mrs. J. P. War-basse, Mrs. T. H. Morgan, Mrs. C. R. Crane, and Mrs. F. Lillie, had met to consolidate their carefully wrought plan into an active being—that was to have wonderful phenomena of our a summer school for the chil-busy world. dren of the town and the children of the faculty members. where, under careful guidance. they might spend a few hours each morning combining play only a few hours until wedding with work in an educational bells will peal forth for Dr. way. The school started with Charles Parmenter. All we can a fairly large enrollment. say is, we wonder how he es-Science, singing and dancing caped this long! were the main subjects taught. with slight stress upon the science. That first year there was also a kindergarten class, a evening, and anything desired of their time in Stockholm. was taught. A pageant was held at the end of the year.

Each year the enrollment lege in Virginia, will be at Cor-grew, and for the last several nell Medical next year years it has been approximately 100. The character of the school has changed too, and is spending the summer in Woods now called "The Children's Hole. Dr. Patrick who has spent School of Science," a school for many years in Turkey as presithe study of natural history under the direction of the Woods engaged in preparing a book on Hole Summer School Associa- the Greek Stoics. An executive committee tion. with chairmens of the committees have direct management or of physiology at the Harvard of the school, and are glad to Medical School, and his family receive suggestions relative to were in Woods Hole from the work from members of the Puesday to Friday of last association. Parents are re- week. quested to join the association and membership is also open to Professor Michaelis was asked anyone interested in the school, by one of our Woods Hole ladies The latter is supported by vol- how he ever thought up his bril-untary subscriptions and by a liant experiments. The secret guarantee fund. All children of his success is due to the fact, over seven years of age are elig- he said, that he had nothing else ible. At the end of the term there is always a "Parents' Day" when the work of each class will be explained by the week pupils and illustrated by the col-lections. apparatus, selected leaves from note books, etc. A complete schedule extends over complete schedule extends over University between August 16 twelve weeks. The teaching and 23. Dr. Duggar is general staff this year consists of Miss secretary of the congress. Alice E. Clarke and Miss Kathine A. Clarke, both from the Friend's School, Baltimore, Md.; Mr. Henry E. Wondergen, East High School, Rochester, N. Y.; and Mr. Rosseter D. Olmstead, chief of staff, Children's Uni-versity School, New York City. The courses taught are nature study, plant life of Woods Hole, birds and their nests, animals of

children may see and study the It was the summer of 1912 plants in their natural environ-

Truly the summer school is something which Woods Hole should boast of, and heartily support, for the study of science brings one to a greater realization of life and of the many

Helen Jennings.

We hear that it is a matter of only a few hours until wedding

Dr. and Mrs. W. H. Addison and their daughter Agnes are traveling in Europe this sumsinging class for parents in the mer. They expect to spend most

> Miss Emilie Vicari, who has been teaching at Sweetbriar Colnell Medical next year.

> Dr. Mary Mills Patrick is dent of Constantinople College is

Dr. Hallowell Davis, instruct-

Dr. B. M. Duggar left last week for Ithaca, where he will

WOODS HOLITES! Get THE ENTERPRISE while you are at Woods Hole this Summer. Published every Saturday. 3 Months, 75c THE ENTERPRISE FALMOUTH, MASS.



#### THE COLLECTING NET

#### ALGAE

prepared for their weekly cruise osity shown in these parts, was but their hopes were dashed to given all the scientific apparatus an untimely death when the gal- and equipment that was needed. an untimely death when the gal-lant skipper reported a north-easter blowing, a sinking barom-eter, squalls in the offing, a ty-when inst behind. Fine Island pennies have been found gradu-the state for the tweeter in the article. In 1923, five or six pennies were left on a laboratory table and Thursday. Dr. Plough will lecture on the Tunicates on Fri-forego the pleasure. eter, squalls in the offing, a ty- with no explanation. These phoon just behind Pine Island pennies have been found graduphoon just behind Pine Island pennies have been found grand-and a waterspout in the Eel ally increasing in number until Pond. The trip was called off at the last counting there were and the lunch bequeathed to the 385 of them. and the lunch bequeathed to the 385 of them. zoologists, but Dr. Hazen, fearing the effect of so great a dis- at no definite conclusion as to appointment, gave us a little quiz the exact cause of this phenometo make up for it. Like the Boy non. It may be the theory that class picnic which was held Scouts, he maintains that "Be" "like attracts like." or the origin Monday, August 2. Though the all the tournaments are up to the Prepared" in his personal opin-ion is an excellent motto. He histories of certain algae where says that his classes are accus a single cell may give rise to a tomed to being questioned at any filament and later an expanded time, and he feels that they colonial form. Mr. Fogg stated ing at any time. If you should feetly possible although no to Captain Veeder for the prep-see our budding algologists next quadriciliate zoospores of the aration of a bounteous feed. Holt were to have played Thurs-week carrying buckets to mess. Casteria type had been found Space will not allow the full acor wearing bathing suits to lec-ture, it doesn't mean that we're out "on location" but that we're prepared for almost anything.

This week started off with a collecting tour de luxe aboard leave this field of investigation the S. S. Cayadetta to Cutty- open to anyone interested, and hunk and Black Island. The trip was a great success with the buckets and bottles filled, Helen Brown's knee sprained, and several bad cases of sunburn reported. Speaking of sunburn, the botany department recommends strongly acid. It soothes, heals, and imparts a pleasing canary tint to haps, however, the best idea the affected parts.

left of the gallant boataneers attended the seminar addressed by tom of the thing, but to let it go Dr. Fish of the fish commission, on until we can build a bolary who spoke on "Life in the Open lab nearer the beach and have Ocean as Seen from the Arctur- it entirely surrounded with tenus." Afterwards a very juicy nis courts. party was held up in the lab, consisting of steamed Mytili and watermelon.

Still another event, not without marked significance, is the "coming out" into terpsichorean circles of one of our revered staff. The debut came as a great surprise to all concerned and great things are expected.

This week's seminar will be on "Mosaic Diseases and Leaf Variegations" with Dr. Fanny Fern Smith officiating in the double capacity of lecturer and lord high purveyor of the fudge.

#### **Treasure Trove**

For four weeks we have been puzzled by a pile of mouldy pennies lying on Mr. Fogg's table, and finally we nerved up enough courage to ask the why and wherefor of the accumulation—this is the story.

In 1923, Mr. Fogg, deciding that investigation was the occupation of the elite at Woods Hole, decided to test with theory Like the eminent Skeptics Club, fessor of pathology.

the immediately undertook the The botanists last week were lem and with the usual gener-

Mr. Fogg as yet has arrived of fertilization. that the second theory was per-

We are perfectly willing to Fogg suggested turning the pile over to the one with the best suggestions for its disposal. Our own idea was to test some of these "end to end" statistics. picric Dr. Lewis suggests buying lobsters some Monday night. Perwould be not to kill the golden Monday evening, what was goose or the quadriciliate zoospores or whatever is at the boton until we can build a botany

#### Uncatena Adrift

(Continued from Page 1)

second one carrying her pet Peckinese. Then the crew proceded to unload the cars. after which the rest of the passengers disembarked.

A hurry call was sent to Vineyard Haven which resulted in the Pequot's being dispatched forthwith. This took over the task of transporting the otherwise disappointed passengers to their destination.

Back On Schedule Workmen at once started repairing the break in the rod and early this morning the Uncatena sailed directly for Edgartown, reaching there about four. She returned to New Bedford on schedule time and left on return trip at 9:45.

Pr. Morton McCutcheon has that money attracts money, been appointed assistant pro-

#### EMBRYOS

The lectures for the week are on the Annelids, Mollusca, and

A great part of the last week was spent in anticipation of the viseable to held the picnic at Lewis. Miss Iglehart, as soon paulin Cove, the day was a most really was nothing lacking. A persuaded Dr. Packard to tell the famous story of "Hubert and the Frog." where they were picked up by journey.

Mrs. Climenko is visiting her son, Robert.

Sidney Britten went to Marand Mrs. Knowlton.

residence of the person who on to the revised edition of the Sunday destroyed the gonione-Encyclopaedia Britannica.

mus cultures that Dr. Plough socarefully prepared will be appreciated and the informer amply rewarded.

We did have a good story on Tunicates. Dr. Graves gave the Bob Climenko but as he refused

Mary Catherine has a new room and a new roommate.

#### TENNIS

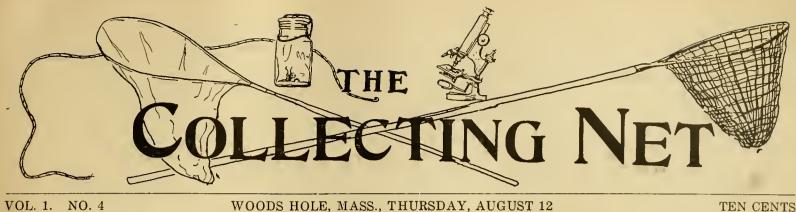
weather was a bit discouraging finals. Monday, Aug. 2, the and the heavy fog made it ad-Lancefields play Iglehart and Kettle Cove rather than at Tar- as this match is played off, will leave for Southampton where successful one. Thanks are due friends are anxiously awaiting to Captain Veeder for the prep- her delayed arrival. Field and count of the menu but there ladies' singles, but the rain prevented the game. Lancefield and group around the fire eagerly Lewis again come together for the men's single as they have done so often before. Because A number of the of the departure of Mr. and Mrs. party, wishing to mitigate the Speidel, the men's doubles beturn to a consideration of the effects of the hearty meal, came somewhat involved, but as disposal of this material. Mr. walked back to Hadley Harbor walked back to Hadley Harbor it stands now, Patten and Patten play Strong and Harvey in the Cayadetta on the return the semi-finals. Lancefield and Inmas play the winners.

> Professor Leon A. Hausman, blehead, Saturday, to meet his of Rutgers University, has remother who returned with him. cently been made the science Mrs. Britten will spend some editor of Compton's Pietured time at Woods Hole with Dr. Newspaper of Chicago. He has also been invited to contribute Information concerning the studies of mammal hair and fur

The Elizabeth Theatre FALMOUTH, MASS. HIGH CLASS PHOTOPLAYS Show Starts at 7.45 - Feature Picture at 8.30 Short Reels Repeated After the Feature Picture. A COMPLETE SHOW AFTER 8.30 Saturday Two Shows at 7.00 and 9.00 O'clock Matinees Monday, Wednesday and Saturday at 2.30 FRIDAY, AUGUST 6th, 1926 **'SPORTING LOVÉR'** with CONWAY TEARLE SATURDAY, AUGUST 7th, 1926 "STILL ALARM" THRILLING RESCUES SPEEDING FIRE HORSES It is the Master of All Fire Dramas MONDAY, AUGUST 9th, 1926 "ELLA CINDERS"

with COLLEEN MOORE

TUESDAY, AUGUST 10th, 1926 "PALS FIRST" WEDNESDAY, AUGUST 11th, 1926 "STELLA DALLAS'



VOL. 1. NO. 4

#### WOODS HOLE, MASS., THURSDAY, AUGUST 12

#### WILLIAM J. RING 1839-1926

William J. Ring, aged 87 years, the third oldest man in Falmouth and the oldest resident of the village of Woods Hole, passed away at the home of his daughter, Mrs. John L. Condon, Wednesday, August 4, after an illness of about two weeks. Mr. Ring had previously enjoyed excel-lent health, and had lived for some years with his daughter, Mrs. John L. Condon, who is his sole survivor. He was a veritable source of in-

He was a veritable source of in-He was a veritable source of in-formation, and enjoyed telling stor-ies of his early sea faring life, of Woods Hole in the old days when a person coming to the village came either by boat or by stage coach. Mr. Ring was well educated and well informed, having been at one time an accountant, and his travels had given him a wonderful store of knowledge knowledge.

He was well known and well liked by the people of Woods Hole most of whom had known him since early childhood.

childhood. William Ring was one of the most intresting characters of Woods Hole. Time had apparently not dulled his memory, for in rich brogue betraying his Irish ancestry, he would recall the dates and places of events that took place in his boyhood. Snowy white whiskers formed a contrasting border to the ruddy glow of his checks; and behind his thick-lensed spectacles his eyes twinkled as he recalled the days when he was a sailor. sailor.

Mr. Ring was born in Ireland on May 14, 1839, and when a young man 1865 went to New York. He worked in Philadelphia and Boston worked in Philadelphia and Boston for a year and on December 19, 1868, came to Woods Hole to make his home. For 20 years he was employed at the Guano Works on Penzance Point which is remembered by the older inhabitants of Woods Hole. After giving up this work he was made foreman on the Woods Hole district roads, and was active in this work until only five years ago. work until only five years ago.

Funeral services were held from St. Joseph's Church in Woods Hole at 9 o'clock on Friday morning. In-terment was in St. Joseph's Ceme-tery in Falmouth.

#### Laboratory Activities

Friday, August 13, 8:00 P. M. Evening Lecture. "Biology Students in British Guiana" by Dr. H. D. Fish, professor of zoology, University of Pitts-burgh. (Illustrated) Open to burgh. (I the Public.

#### **Investigators** Picnic

A picnic for M. B. L. investigators and their families has been arranged for August 16th. The Cayadetta will leave the wharf opposite the Brick Building at 10:30 and 11:30 for Tarpaulin Cove. Return trips will be made at 3:30 and 4:30. Those who wish to go on this Lillie. Dr. Jacobs is professor

help make the picnic a success the physiology course at the and will have clams and coffee laboratory. cooked on board the *Cayadetta*. Trust will be taken up on the boat. All are expected to supply their own sandwiches, watermelon, lobsters or whatever is desired. Coffee will be furnished by the M. B. L. Club, but not cups and spoons.

In case of change of plans of any investigator after Thursday when the form for signing will be removed from the Bulletin Board, please notify some member of the committee which includes Mrs. Mavor, Mrs. Mc-Cutcheon, Miss Guthrie, Dr. Copeland and Mr. Svenson.

#### Well Known Impersonator to Appear In Woods Hole

Coming-Monday, August 16, 8:00 p. m.

Elizabeth Gurrell Whiting, impersonator, presenting "The Man From Home" at the Woods Hole Community Hall. Admis- present two hundred a sion \$1.00. Proceeds for benefit of M. E. Church.

#### NATIONAL ACADEMY **MEMBERS WORK HERE**

Among the investigators working in the Marine Biological Laboratory this summer are eight members of the National

The National Academy has at present two hundred and twenty

(Continued on Page 5)

## **Dr. Jacobs Selected at Meeting** of Trustees to Succeed Dr. Lillie as Director of M. B. L.

At the meeting of the Trustees of the Marine Biological Laboratory on Tuesday, August 10, Dr. Frank R. Lillie presented his resignation as Director of the laboratory. This position has been held continuously by Dr. Lillie since 1908. Under his able administration the laboratory has become the leading institution of its kind in the world. His resignation does not mean his withdrawal from participation in the general affairs of the laboratory for he remains as president of the corporation; and the executive committee is to define the respective duties of president and director.

Dr. Merkel Jacobs has been associate director for the past year and was appointed by the trustees to succeed Dr. picnic should sign up on the form posted on the bulletin board of the vestibule of the Brick Building. in his field. For some time Dr. Jacobs has been in charge of

#### **Trustees Reelected**

The following scientists were elected by the members of the Corporation to serve as Trustees until 1930.

E. G. Conklin, Princeton University.

Otto C. Glaser, Amherst College.

Ross G. Harrison, Yale Uni-

versity. H. S. Jennings, Johns Hop-kins University.

#### The Tide in the Hole

At the following hours the current in the Hole turns to run from Buzzards Bay to

vineyaru Sound:
Aug. 12 7:59 A. M.
Aug. 13 8:46 A. M.
Aug. 14 9:31 A. M.
Aug. 15 10:18 A. M.
Aug. 16 11:10 A. M.
Aug. 17 11:55 A.M.
Aug. 18 12:18 P. M.
Aug. 19 1:10 P. M.
In each case the current
changes six hours later and
cuns from the Sound to the
Bay.
•

F. P. Knowlton, Syracuse University.

M. M. Metcalf, Oberlin, Ohio. William Patten, Dartmouth College.

W. B. Scott, Princeton University.

#### Dr. Woodruff Elected to

Important Positions Dr. L. L. Woodruff, professor of protozoology at Yale Uni-versity succeeds Dr. Calkins as Clerk of the Corporation. Dr. Woodruff was also elected to the position of Secretary, pro tem, of the Trustees.

Lawrason Riggs, Jr. was re-elected treasurer of the Corporation.

Members of Executive

**Committee Appointed** Dr. Caswell Grave, professor of zoology at Washington University and Dr. Otto C. Glaser, professor of zoology at Amherst College were elected to succeed Dr. Conklin and Dr. Stockard whose terms automatterminate this year. ically The Executive Committee of the laboratory is now composed of the following trustees: Frank R. Lillie, Ex. off. Chair-

man.

Merkel H. Jacobs, Ex. Off.

Lawrason Riggs, Jr., Ex. Off. T. H. Morgan, to serve until 1927.

I. F. Lewis, to serve until 1927.

Caswell Grave, to serve until 1928.

Otto C. Glaser to serve until 1918.

#### TENNIS

#### Lewis Wins Men's Singles **Miss Field Defeats** Mrs. Holt

Last week witnessed the completion of all the matches in the tennis tournament. With the playing of the finals in the women's singles on Friday afternoon, August 6, there came to a formal close the most interesting and successful tennis season in the annals of Woods Hole.

The men's singles event was won by Dr. Ivey F. Lewis who, playing his customary steady and accurate game, defeated Dr. D. E. Lancefield in straight sets, 6-3; 6-2.

Paired with Miss A. Iglehart, Dr. Lewis was also victor in the mixed doubles. This team de-feated Dr. and Mrs. Lancefield, feated Dr. and Mrs. Lancefield, 7-5, 6-4, and won the right to have its name inscribed on the finally went to Lancefield. The game, Miss Field was never Strong Cup, the permanent eighth game was Lancefield's on trophy for this event which is service. He was playing carekept in possession of the Labor-

Pattens in a semi-final match, 8-6, 7-5, after having previously won their finals match with consistency, returning seeming-Speidel and Hitchcock by the ly impossible shots from all corscore of 6-2, 6-3.

victorious from a splendid list of entries in the women's singles by virtue of a hard-earned win over Mrs. Holt, the match going to three sets, 6-2, 5-7, 6-2.

#### Lancefield Loses

which was played on Monday afternoon, August 2, drew a He had his opponent constantly large audience. Lewis and Igle- on the run and was finding the hart got away to a good lead in lines and corners with machine-the first set, but their opponents like precision. The sixth game soon tied the score and for half was his and Lancefield trailed a dozen games it was anybody's at 2-4. Making a determined match. Lancefield seemed bothered by the damp court which ful serve on Lewis's backhand in slowed down the bounds, but the next game. But to no avail played a very strong game over- What looked like sure service head. Lewis and Iglehart broke aces were returned from difficult low-Mrs. Lancefield's thru bounding serve in the eleventh field's returns were finding the game, coming to the net to make sharp placements; the next game, and with it the set at 7-5, was their's on Dr. Lewis's serve.

The second set produced some of the finest tennis seen during Both the entire tournament. sides made many placement aces, Miss Iglehart in particular taking the net at every opportunity and angling sharply for points. The issue, as in the first set, seemed at no time certain, but Lewis's superior steadiness and uncanny trimming of the lines Miss Field won her own and between these two teams took uncanny trimming of the lines proved the deciding factor, and Mrs. Holt's serve and led 2-0. place on the Mess court at 4 the set went to Lewis and Igle-hart at 6-4. Games then went with service o'clock, Friday, August 6, and until 3-1, when Mrs Holt double- despite the damp condition of hart at 6-4.

in the Main Building.

#### Lewis Triumphs

As has happened so often before in Woods Hole tennis his-F. Lewis and D. E. tory, I. Lancefield came together in the finals of the men's singles. Great interest centered in this match, which was played on the Mess Court at 4 P. M., Wednes-day, August 4, and a large and eager gallery was in attendance.

Lancefield, winning the toss, chose the court, and Dr. Lewis took the first game on his own serve. Lewis then broke thru Lancefield's service and, placing ponent, playing with abandon, with marvelous accuracy, ran made frequent errors. Both with marvelous accuracy, ran out the next three games. With the score 5-0 against him Lancefield steadied and won his own eighth game was Lancefield's on again headed by her adversary, fully at this point, hitting deep to the corners, and against any Lancefield and Inman won the men's doubles by a circuitous route when they defeated the tide and turned defeat into victory. Lewis, however, possessed the necessary margin of Miss Madeline Field emerged the ninth game on his own ser- courts in the future.

vice for the set at 6-3. Games went with service in the second set until the fourth game when Lewis broke thru and led at 3-1. Lancefield brought the score to 3-2 with a brilliant love game and Lewis retalliated The mixed doubles match, by uncorking the most spectacular placing of the whole match. stand, Lancefield kept his powerangles for placements and Lance-

The seventh and eighth net. games went to Lewis and with them the set and the match. Final score: 6-3, 6-2.

#### Miss Field Wins

The final match in the women's Miss Madeline Field, the dark tennis. horse of the tournament, met

was presented by William Strong ers were stroking the ball well more than equal to the occasion, interminable. set was Miss Field's at 6-2.

long deuce games. Coming from of the Pattens, enabled them to 5 all. Mrs. Holt's beautiful, results, then, completely vindi-free-swinging backhand and cate the early defeat of Speidel forehand drives were unerringly accurate now and in the next two games, and with them the set at 7-5, were hers.

The third set saw Miss Field as steady as ever while her op-Both players, altho adhering mainly to the back court, took the net often and their fine placing service. Then there followed a drew repeated applause from the who seemed to tire rapidly, and illustrated lecture on altho she dropped another game Mediterranean Cruise." the set was easily hers by the

it was gained over the strongest set of entries that this event has seen here in recent years. It is sincerely hoped that she will reners of the court, and ran out turn to grace Woods Hole tennis

#### **Men's Doubles**

Such a discrepancy crept into the progress of the two brackets of this event that it seemed virtually to meet itself coming back. The lower half moved rapidly and Speidel and Hitchcock found themselves up to the final round before even the second round of upper bracket matches had been completed. This delay in the upper half was due to the delayed arrival of Dr. Newton Harvey who was paired with William Strong. Lancefield and Inman were also in this bracket, and on the chance that they might come thru it victoriously they played a premature finals match against Speidel and Hitchcock, beating them 6-2, 6-3.

Strong and Harvey finally met William and Bradley Patten in a second round match and lost to them by the score of 6-4, 6-4. These two teams were very evenly matched and the conflict, singles followed immediately which was played at the Strong after the conclusion of the court on Penzance Point, was doubles on Friday afternoon. productive of fast and brilliant

This brought the Pattens into The names of the winners will faulted badly and trailed at 1-4. the court produced many thrills. The sixth, a long deuce game, The Pattens directed their at-mixed doubles tournament which went to Miss Field. Both play- tack at Inman, who seemed

and which resides permanently and many of the rallies seemed making many fine returns from The next two the net. Lancefield played a games followed service and the strong overhead and serving game and the combined offen-With a lead of 3-2 in the sive of this team, aided by a second set, Mrs. Holt won two decided unsteadiness on the part behind and playing carefully pull out a victory after two Miss Field evened the match at hard-fought sets, 8-6, 7-5. The results, then, completely vindiand Hitchcock at the hands of Lancefield and Inman, and to the latter team goes the Men's Doubles Championship for 1926.

#### **Miss Jeffers to Lecture**

A lecture on "The City of Rome" will be given Thursday evening, August 13, at 8 o'clock in the small lecture room of the Marine Biological Laboratory, by Miss Mary Jeffers, of Bryn Mawr. The admission charge will be 35 cents.

On Thursday evening, August 19, Miss Jeffers will give her illustrated lecture on "The This is one of the most popular travel talks and is anticipated with much pleasure. This .lecture will be given in the Community hall for the benefit of the Church of the Messiah, Woods Hole.

Miss Jeffers and Dr. Florence Peebles are spending the sum-mer at their home, The Lan-tern, Gardiner Road. They have recently returned from a lecture trip to the Pacific coast.

#### CHEM ROOM REACTIONS

The Chem Crew thinks you're a pretty good sort, But all the same they have their

sport, When investigators, sage and wise, Make such requests that take the prize.

One great man, absorbed in his work, Sets up, asks for one rubber cork. Another, as great, nonchalantly and

placid, Wants half a pint of pure Osmic Acid.

While ordering several hundred cc.s

Of solutions made with Baker's C. P.'s, From speaking of hundreds, his voice still resounds.

He orders Squibbs Ether, five hundred pounds. They ask for preposterous dye com-

binations.

For chlorides and sulphates and such preparations. But the thing that surpasses all radi-

cal cubing —"A seven-foot length of solid

We find odds and ends that not rare-ly amuse,

Absent mindedly left but intended to use,

From trick apparatus of the intricate type,

And what they came down for, to Perly's lost pipe. Then when we've walked down to the

very last rack And brought the requested shape and size back,

And decided the next'll be a moment of ease, Nay-lo! and behold! --- it's --- "An--

other one please.' pH.

## THE MESS AND ITS ORGANIZATION Saturday Night Club

Very few of us know how the mess grew with the laboratory. Since the beginning of the M. B. L. the number of people has mounted steadily from year to year. With this increase the capacity of the mess hall has been enlarged several times. In 1918 it was necessary to take on as part of the dining room the piazzas on both ends of the din-ing hall. The next increase is shown by the fact that the old

mess hall, which was burned to the ground on March 17, 1920 seated only 250 while the present mess hall seats 450 people. The number eating at the mess in 1920 was less than 250; now 530 people obtain their food there.

To better acquaint the diners with those who prepare their food we have printed below a list of the entire service force:

with those who priepare then
food we have printed below a
list of the entire service force:
Student Assistants-Ballard W. W.;
Barth, L.; Beaver, P.; Borden.
Mabel,; Britten, S. A.; Carpenter,
Esther; Crawford, Mrs.; Crawford,
W. W.; Daniel, G. E.; Gates, G. E.;
Healey, D. E.; Johnson, Helen; Kinney, Elizabeth; Lillie, W. M.; Lu,
H. L.; Lucas, A. M.; Maclean, B. L.;
McCoy, O. R.; McGaun, R. C.; Mc
Mullen, E. B.; Miller, Helen M.;
Pinkston, J. O.; Rich, Robbins; Robb,
R. C.; Robertson, D. F.; Rowell, L.
S.; Shearer, E. M.; Woods, F. H.;
Zeek, Pearl M.
Mess Personnel - Brooks, Amy,
Boston Univ., waitress; Coombs, Mrs.
C. C., Cambridge, chambermaid;
Coombs, Eleanor, Cambridge H. S.,
waitress; Cornie, F. S., Cambridge
H. S., asst. dish washer; Downing,
Isabelle, Newton Highlands, head
waitress; Drown, Emma, Wellesley,
general worker; Elliott, Thelma,
Maryland Univ., waitress; Fisher, L.
J., Ridge Tech., house man; Gray,
Caroline, Cambridge H. S., waitress;
Larson, John P., Cambridge, dish
packer; MacDougal, Mary, Boston,
general worker; Murphey, J. J.,
Rindge Tech., chief dish washer;
Naterman, H. L., Tufts Med., asst to
chef; Nordstrom, Knute A., Amherst,
chef; Pease, Mrs. Mary, Florida,
pastry cook; Pond, Frances, Haverhill, chambermaid; Fond, Mrs. F.,
Haverhill, chambermaid; Ricketts,
F., Boston, pastry cook (asst.);
Roche, Elizabeth, Ireland, chambermaid; Tyler, A. R., Rutgers,
gen. asst.; Young, Mrs. J., Woods
Hole, chambermaid; Young, Virginia,
Newton H. S., waitress.

The marriage of Miss Dorothea Chambers, cousin of Dr. Robert Chambers and Mr. Donald Blaisdell, of New York City, will take place at the Church of the Messiah, Woods Hole, on Saturday afternoon, August 14. A reception will be held afterwards for their immediate friends at Bobtucket Cottage.

Miss Hilda E. Karns has just returned from a visit to Weston, Mass. where she delivered a lecture entitled "Toads in our Gardens" at the Hillcrest Gar-dens. has some advantages. The scene explained the drop in the pro-shifters were an important part of the picture in their blue smocks as they brought in the quaint blue door with a window with red curtains above, white McGrue seemed to get the

### **Productions Enthusiastically Received** by Capacity Audience

of one act plays was presented Incidentally these two, R. C. Mc-to a full and enthusiastic house Gann, and L. P. Rowell made the on Saturday evening in the M. scenery themselves which they B. L. auditorium. This is the manipulated with such effect. A sixth year in which a series of program of such little scenes plays has been given by and for would make a delightful evening the benefit of the M. B. L. and for young and old. Tennis Clubs. The moving Frère Jacques, a roundel, en-Tennis Clubs. The moving spirits behind these plays have been Dr. and Mrs. Clark who have been unsparing in their time and efforts to provide plays when one considers the short When one considers the short was spontaneous and delightful to which the audience responded in chorus. These song plays were of true artistic merit and period of rehearsal, often but a few days and never more than two weeks, one is impressed by the efficient co-operation of groups producing the plays. The directing committee con-sisting of Dr. Keefe, Mrs. Glaser, and Mrs. Clark deliberately chose a contrasting pro-gram of high and low brow plays so that all tastes would be satisfied. It is not an easy matter to strike a happy medium but it is the general opinion that in this occasion it has been done. Long intermission for shifting scenery, the bugbear of most amateur theatricals were cleverly avoided by providing the same setting for all plays, the only variable parts being in the immediate center stage and the furniture.

The first play, "The Robbery", like most of Clare Kummer's plays is full of light humor and philosophizing. The cast was well chosen and the parts were played with remarkable finish considering the short period of rehearsal. Dr. McClung was the outstanding actor and after a few more annual appearances should qualify for the legiti-mate stage. The background of this play deserves mention for its effective simplicity.

The French folk songs dramatized by the children were the most artistic plays on the program in the opinion of many. They were like quaint pictures out of a French nursery song book. In "Au Clair de la Lune", Peggy Clark as Mon Ami, Pier-rot, showed her natural histri-Vicky Glaser at the window was of the committee to end up the aided by nature in representing program with plays of lighter

A very worth while program picket fences and gay flowers.

we hope we will hear more of them.

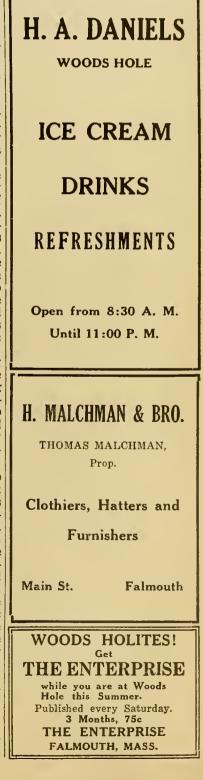
The melodrama, "The Drums of Oude" by Austin Strong was full of suspense and mystery and the atmosphere was well sustained throughout. The two leading parts gave an opportunity for finished acting, and the parts were ably portrayed by Miss Brannon and Dr. Mitchell. The background of an Indian city was colorfully painted in relief by Mr. A. Hutton Vignoles. Mr. and Mrs. Vignoles gave gener-ously of their holiday in Woods Hole to make this play a success. In fact, the success of the entire program depended largely on the willing and efficient group of helpers of whom there were over 100 including casts and committees. Special thanks is due to Mr. Larkin for his able assistance.

Between the acts following the melodrama Miss Katherine Tyler gave a splendid rendering of a Symphonic Etlude by Schumann. Unfortunately planos do not take kindly to sea air and it was a gracious act for any musician to play on this particular one.

Passing from the sublime to the ridiculous the vaudeville skit entitled "The Courtship of Miles Standish", while well perform-ed, seemed out of place to some. A large part of the audience consisted of students who gave the last two plays, "The Court-ship of Miles Standish" and "The Same Old Thing" which were rather of the college type rot, showed her natural histri-onic powers to advantage while reception. It was the purpose a toothless, irate Pierre. Shed-while Indian plays of lighter a toothless, irate Pierre. Shed-while Indian play. This fact has some advantages. The scene explained the drop in the pro-

greatest reaction from the audi**ght Club Plays Success** greatest reaction from the addi-ence. There were some, how-ever, to whom the play seemed uninteresting, and scarcly worthy of the costume of the leading lady!

The plays had a most appreciative audience and we think the committee is to be congratulated on the choice of plays some one of which was bound to satisfy. We believe some of the "high brows" who perhaps suffer from a strong artistic sense would have regarded the program if ending after the fourth play as better balanced and more finished. Of the many good programe which have been given this program was undoubtedly the best. D. M.



## The Collecting Net

Issued under the auspices of The M. B. L. Club

Vol. I. No. 4. Aug. 12, 1926

#### Club Officers

D. J. Edwards .....Pres. C. C. Speidel.....Vice-Pres. M. Sampson ......Sec.-Trcas. Florence Tinkham. Chair. House Com. Marion Rea..... Chair. Social Com.

#### **Editorial Staff**

Ware Cattell, Managing Editor, Helen H. Cattell, Anna C. Dunlap, A. the trustees of the laboratory Ranger Tyler, Associate Editors. Contributing Editors

Helen S. Morris.....Algae A. S. Eichorn...Bureau of Fisheries Eleanor Sloane..... Jelly Fish Helen Jennings ...... Town Topics J. M. Fogg ..... Sports

#### Restrictions

Probably no institution exists where research can be carried out with as much freedom as at this laboratory. Red tape and petty regulations are almost unknown here, and our work is unhampered by restrictions of doubtful wisdom.

We have always taken price in this sense of informality and freedom. We view, therefore. with apprehension the recent practise of the locking of the balance rooms. Even the undergraduates of our colleges and universities are allowed to use balances of this character with out supervision. And it is almost adding insult to injury to read the notice posted on the balance room doors and learn that for more sensitive balances the Custodian of Apparatus must be consulted.

But even aside from belittling our intelligence and training it is a great inconvenience. The urer, 25 Broad street, New York key to the balance rooms, so the City. notice informs us, may be ob-tained in a nearby room. But what if the Custodian of the Key is absent? Many investigators carry on work at night, and therefore may need to weigh material after the Custodian of the Key has retired. If it is necessary to lock the balance room doors, might not some provision be made so that experiments could be carried out in the absence of the Custodian of the Key?

The fact that to some it seems necessary to guard the balances under lock and key reflects perhaps upon those who have been. using the equipment in question. It is unfortunate that this is the case, but it seems scarcely necessary to impose restrictions at the expense of the convenience of the experienced investigator.

A large proportion of the investigators leave their rooms un-versity.

locked day and night even though they contain miscro-scopes and other equipment whose value totals perhaps a theusand dollars in some cases. It seems strange that the laboratory must so carefully guard equipment costing only fifty or a hundred dollars when indivi-dual investigators leave more delicate and expensive apparatus in rooms of which even the doors are often left open.

#### The Evening Lectures

We learn with interest that plan to take under consideration the question of the publication of the evening lectures delivered at the Marine Biological Laboratorv

The laboratory undertook at one time to publish, bind and sell these volumes at a nominal sum, but owing to financial difficulties this arrangement was discontinued in 1921. This is a loss to science and to the Marine Bio-logical Laboratory. The lectures are a fairly complete mirror of the work carried out at the laboratory, and would eventually form a valuable historical series on the progress of research in the biological sciences.

#### TRUSTEES MEET

(Continued from Page 1)

The complete list of the trustees (except those listed above) follows:

(As of August 10, 1926.) Ex Officio

Frank R. Lillie, president of the corporation, University of Chicago.

Merkel H. Jacobs. director, University of Pennsylvania. Lawrason Riggs, Jr., treas-

L. L. Woodruff, clerk of the corporation, and secretary of the board of trustees, Yale University.

#### Emeritus

Cornelia M. Clapp, Mount Holyoke College.

Gilman A. Drew, Eagle Lake, Florida.

To Serve Until 1929

C. R. Crane, New York City. I. F. Lewis, University of Vir-

ginia. R. S. Lillie, University of

Chicago. E. P. Lyon, University of

Minnesota. C. E. McClung, University of

Pennsylvania. T. H. Morgan, Columbia University.

D. H. Tennent, Bryn Mawr College.

E. B. Wilson, Columbia Uni-

#### To Serve Until 1928

THE COLLECTING NET

H. H. Donaldson, Wistar Institute of Anatomy and Biology. W. E. Garrey, Vanderbilt Uni-

versity. Caswell Grave, Washington

University. M. J. Greenman, Wistar Institute of Anatomy and Biology.

R. A. Harper, Columbia University.

A. P. Mathews, University of Cincinnati.

G. H. Parker, Harvard University.

C. R. Stockard, Cornell University Medical College.

To Serve Until 1927

H. C. Bumpus, Brown University.

H. E. Crampton, Barnard College, Columbia University. W. C. Curtis, University of Missouri.

George T. Moore, Missouri Botanical Garden, St. Louis.

W. J. V. Osterhout, member of the Rockefeller Institute for Medical Research.

J. R. Schramm, University of Pennsylvania.

William M. Wheeler, Bussey Institution, Harvard University. Lorande L. Woodruff, Yale University.

Those present at the meeting of the Trustees were:

F. R. Lillie H. H. Donaldson W. E. Garrey H.

- W. E. Garrey C. Grave A. P. Mathews C. R. Stockard H. C. Bumpus W. C. Curtis J. R. Schramm L. L. Woodruff E. G. Conklin O. C. Glaser R. G. Harrison H. S. Jennings

- R. G. Harrison H. S. Jennings F. P. Knowlton M. M. Metcalf W. Patten

- W. Patten W. B. Scott C. R. Crane R. S. Lillie E. P. Lyon C. E. McClung T. H. Morgan E. B. Wilson

#### New Members of Corporation

The following scientists were nominated and elected to regular membership by the Trustees:

J. H. Bodine, Ph.D., Univ. of Penn. C. J. Connelley, Ph.D., Catholic Univ. of America. C. H. Farr, Ph.D., Washington Univ. W. O. Fenn, Ph.D., Univ. of Roch-ester

ester. F. L. Gates, M.D., Rockefeller Inst. J. T. Halsey, M.D., Tulane Univ. F. L. Hisaw, Ph. D., Univ. of Wis-

Marian Irwin, Ph.D., Rockefeller Inst.

Inst.
Irving Paige, M. D., Cornell.
Bradley Patten, M.D., Western
Reserve Univ.
J. W. Wilson, Ph.D., Brown Univ.

311 Members of Corporation

Two Life Members of the Corporation died during the past year. They were: Miss Amy Folsom and Miss Eugenia Visiting Woods Hole with his Gardiner both of whom were family.

residents of Boston. Dr. George R. Lyman, professor at the University of West Virginia, a regular member of the Corpora-tion also died. The fifty nine members of the Corporation attending the meeting rose and remained standing while Dr. Woodruff read the names of these deceased members.

The following members at-tended the Corporation meeting at 12:00 M. Tuesday:

C. E. Allen R. P. Bigelow S. C. Brooks H. C. Bumpus J. McK. Cattell McK. Cattell W. Cattell R. Chambers R. Chambers E. R. Clark R. E. Coker L. J. Cole Mary E. Collett E. G. Conklin M. Copeland E. V. Cowdry W. C. Curtis H. H. Donaldson B. M. Duggar Elizabeth H. Dunn D. J. Edwards Mrs. E. G. Gardine Mrs. E. G. Gardiner W. E. Garrey O. C. Glaser H. B. Goodrich Grave E. N. Harvey E. N. Harvey Margaret A. Hayden T. E. Hazen O. L. Inman M. H. Jacobs H. S. Jennings A. M. Keefe H. Mac Knowar H. McE. Knower F. P. Knowlton F. R. Lillie R. S. Lillie E. Linton E. Linton E. P. Lyon C. E. McClung E. F. Malone A. P. Mathews J. W. Mavor Mrs. E. B. Meigs P. H. Mitchell S. Nomura

S. Nomura C. Packard

C. Packard Florence Peebles H. H. Plough S. E. Pond F. II. Pratt A. C. Redfield C. G. Rogers L. P. Schromm

- J. R. Schramm W. B. Scott C. R. Stockard W. R. Taylor E. Uhlenhuth

- E. B. Wilson L. L. Woodruff D. B. Young

Three of the thirty-eight life members of the corporation attended this annual meeting. These were: Professor E. G. Conklin, Mrs. E. G. Gardiner and Professor E. B. Wilson.

Dr. Walter E. Garrey, Professor of Physiology at the Vanderbilt University Medical School in Nashville, Tenn., ar-rived in Woods Hole, August 10, to attend the meeting of the Trustees of the Marine Biological Laboratory. Dr. Garrey has just returned from a trip through Europe.

### THE SEA URCHIN

### IT PRICKS WITHOUT DISCRIMINATION

The members of the staff took a certain pride in the leading prick of this week; but, alas, it has been censored by individuals older and wiser than they. A member of the "banana group", however, was concerned; and should he wish to be privately pricked he may come personally, (or send a representative) to room 211 and see what was not fortunate enough to be classified among "the survival of the fittest."

The well known botanist has, we learn, at the last moment, been awarded the Carnegie Medal for Life Saving.

On the first and second Tuesday of each month at 10:00 A. M. and 3:00 P. M. the custodian of apparatus will conduct a balance users' test in the main hall way of the brick building. The fee for the license is \$5.00. The balance on which the test is taken must be furnished by the applicant. The following condi-tions are imposed:

(1) The applicant must have reached his thirtieth birthday. An affidavit must be presented to substantiate this fact.

(2) The applicant must be a citizen of Massachusetts and must have been a worker at the laboratory for a period of at least thirty days.

(3) Before granting of the license the applicant must solemnly promise (a) To wash his hands and his face and painstakingly dry them before entering the balance room; (b) To speak, should it be necessary to say anything, in a low and carefully modulated voice to prevent resonance and consequent destruction of the more delicate portions of the apparatus; (c) After locking the door and re-moving the key, to plug the key hele with cetter to present the hole with cotton to prevent the entrance of bacteria, dust, or moisture. The following oath is then administered to the licensee

### The Cath of Pondocrates

I swear by Galileo, the physicist, by Newton and by Clasheo, the physicist, by Newton and by Einstein, and all the chemists and physicists that, ac-cording to my ability and judgement, I will keep this oath and stipulation: to reckon him who taught me weigh-

certain a weight. With purity and holiness I will pass my life and practice my art. I will weigh not caustic soda without watch glass; nor will I slop vitrol. I will not weigh a chrystal that be deil-quessent, but will leave this to be done by the custodian of this work. Into whatever balance rooms I enter I will go into them for the benefit of science, and will abstain from every voluntary act of mischief and des-truction, and further from the pro-duction of blemishes or knocks, large or small.

duction of blemishes or knocks, large or small. Whatever, in connection with my professional practice or not in con-nection with it, I may see or hear in the realm of science which ought not to be spoken abroad, I will not di-vulge, as reckoning that all such should be kept secret. While I continue to keep this oath unviolate may it be granted me to

unviolate may it be granted me to enjoy life, and the practice of the art, respected by all men at all times; but, should I trespass and violate this oath may the custodian, in wrath, daily reprimand me!

Fragment of conversation overheard at Whitman House: First fair damsel: Why he's married.

Second fair damsel: What? Married???

First fair damsel: Uh-huh. The men that come here hide their marital entanglements under a bushel.

Second fair damsel: Oh! a case of burning their bridges behind them, I suppose.

On Saturday evening at 10:37 Miss Impi Arvo and J. J. Murphey announced their engagement in a novel manner. It has already been rumored that Miss Arvo has made reservations on the train leaving on the coming Saturday for Reno, Nebraska.

### NATIONAL ACADEMY MEMBERS WORK HERE

#### (Continued from Page 1)

nine members, selected as the foremost American men of science chosen from all fields. It is of interest to note that one of the founders of the Academy was Louis Agassiz, who was the founder of the Anderson School of Natural History on Penikese Island, and thus the foerunner of the Woods Hole Laboratory. of the Woods Hole Laboratory. The Academy was organized during equally dear to me as my parents; to share my substance with him who permits me the use of a balance, and relieve his necessities if required; to regard his balances as on the same footing with my own equipment, and to teach them this art if they should wish to learn it, without fee or stipulation, and that by percept, lecture and every other mode of in-struction, I will impart a knowledge of the art to my sons, and to those of my teachers and to disciples

bound by a stipulation and oath, ac-cording to the law of the Custodian, but to none others. I will follow that method of treat-ment which according to my ability and judgment I consider for the bene-fit of my balances, and abstain from wha.ever is deleterious and mischie-vous. I will weigh no deadly poison for anyone if asked, nor suggest any such connsel, furthermore, I will not give to a novice an instrument to as-certain a weight. With purity and holiness I will pass my life and practice my art. I will weigh not caustic soda without watch Council. The members of the Academy working in the laboratory are H. H. Donaldson, Professor of H. H. Jennings, Professor of H. H. Jennings, Professor of Trustees of the Marine Biolog-Zoology Johns Hopkins, Frank ical Laboratory.



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THE COLLECTING NET

### CORPORATION BY-LAWS | BIOLOGICAL WORK

It is deemed appropriate at this time to reproduce the By-Laws of the Corporation of the Marine Biological Laboratory. These follow:

I. The annual meeting of the members shall be held on the second Tuesday in August, at the Laboratory, in Woods Hole, Mass., at 12 o'clock noon, in each year, and at such meeting the members shall choose by ballot a Treasurer and a Clerk, who shall be, ex officio, members of the Board of Trustees, and Trustees as hereinafter provided. At the annual meeting to be held in 1897, not more than twentyfour Trustees shall be chosen, who shall be divided into four classes, to serve one, two, three, and four years, respectively, and thereafter not more than eight Trustees shall be chosen annually for the term of four years. These officers shall hold their respective offices until others are chosen and qualified in their The President of the stead. Corporation, the Director and the Associate Director of the Laboratory, shall also be Trus-

tees, ex offico. II. Special meetings of the members may be called by the Trustees to be held in Boston or in Woods Hole at such time and place as may be designated.

(Continued on Page 8)

FOREIGN BOTANISTS HERE

Professor B. Nemec, plant physiologist, with Professor Domin, botanist, and Madam Domin of Charles University, to intrude into the policy, plans Prague, Czechoslovakia, have been visiting our laboratory this great trouble in the normal past week-end on their way to academic life, and very often the International Botanical Congress at Ithaca.

Professor Nemec has long been well known for his experimental cytological investigations, and has been recently engaged in a study of symbiotic bacteria in plant cells.

Professor and Madam Domin are extensive travellers and ex- severe and imbecile censure of pect to visit the West Indies this Fall to continue their investigations on ecological pro- One farsighted Soviet censor inblems.

#### **Visiting Scientists**

A few of the visiting scientists who came down to Woods Hole for the meetings or for other reasons during the last

few days are here listed: E. G. Conklin, E. P. Lyon, W. E. Garrey, A. P. Mathews, H. C. Bum-pus, W. C. Curtis, J. R. Schramm, M. M. Metcalf, B. Nemec, Professor and Madam Domin, J. M. Cattell, M. M. Metcall, B. Nemec, Professor fiol Institute of Matural Scheres and Madam Domin, J. M. Cattell, R. E. Coker, J. A. Detlefsen, H. H. Donaldson, B. M. Duggar, R. G. Har-rison, J. E. Kindred, F. H. Pratt, W. B. Scott.

### IN RUSSIA

"The Collecting Net", hunting more for human beings than for

fish,-happened to catch recently at the M. B. L. Club a rather rare and interesting personage, Dr. N. Borodin, former professor at Petrograd Agricultural College, connected at the present time with Brooklyn Museum. He came here to collect some material for the Museum as well as for his studies on the rate of growth of fishes. We asked him about the biological studies in Russia at the present time and received the following short and general information.

With the improvement of general living conditions in regard to food and lodging, the scientific studies in Russia gradually biologists, disciples of pre-war professors, though the number of biologists is still far from sufficient to fill all positions on the scientific staffs of the Universities. Research work is carried on much better in the institutions which are not connected with teaching in the Universities, because these institutions are free from the rather offending control of the aggressive representatives of the Soviet Government, which puts its heavy hand on the education of the country in general. These representatives try not only to control the finances of the universities and colleges, but also of teaching, etc., which cause causes the feelings of the educators to become quite insuppor-Only those who have table. succeeded in "accommodating themselves to the environments' or in "acquiring a protective coloration" feel satisfied; all others suffer morally, more or less....Moreover, there is a all publications not excluding the scientific ones. To illustrate: sisted that the word "petro-graphy" must be substituted by "Leninegraphy", because Petrograd is named Leningrad.

Among the scientific institutions in which research work is carried on more or less normally the following must be mentioned: Institute of Experimental Biology at Moscow, Dr. N. K. Koltzoff, Director, Peterhof Institute of Natural Sciences near Leningrad, Prof. K. Deru-gin, Director, Wolga Biological

Sebastopal, Crimea. Besides these there are three ichthyo-Resides logical laboratories at Astrakhan, Baku, and Kerch, which are making investigations in applied biology and ichthyology.

All of those stations exclusive of two (at Peterhof and Kerch) existed before the war and The Moscow revolution. Institute publishes the "Journal of Experimental Biology"; The Peterhof Institute — "Travaux de l'Institut des sciences natu-relles de Peterhof". The Wolga Hydrobiological Station pub-lishes "Arbeiten der Biologischen Wolga Station", and "Rus-sian Hydrobiological Journal"; Astrakhan, Baku and Kerch Ichthyological laboratories publish "Annual Reports"

Persons further interested in the problems studied by the said stations may look up the named publications which are to be found among the serials received by the M. B. L. library. Although they are published in resume their former trend, and Russian, the contents and the there appear many new young summaries of papers are always biologists disciples of pre-war given in English and German. Being asked about the life and work at Woods Hole, Dr. Borodin expressed his admiration of the unique possibilities for biological investigation presented by the M. B. L. in its present state, and its rare ac-commodations for the work. He showed also a special interest in the energetic life of students and young investigators in biology who come here from different states and countries.

> Dr. Borodin, besides his scientific books and papers, is the author of a book on the "United States and Russia" and is particularly interested in American life and in education in general.

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### JELLY FISH

The invertebrates have wriggled away but this is the last little flagellum floating backward to show that we have been utes from a typewriter to a cirhere. And, honestly, we are cumoesophageal ring. But the afraid that the trail of our pro-interest in art soon waned, so gress is indelibly impressed on the track aspirants tried their the M. B. L. and especially upon a certain long-suffering laboratory which will be just a little worse and more battered after our struggle with the intricacies vertebrates of fish-like locomoof the anatomy of Busycon. tion for the swimming races. What an animal! Half the in- Prizes were awarded for men's vertebrates were reduced to, well, we won't call it profanity because we absolutely cannot, contest, in which the staff was will not draw in three planes of pitted against the student represpace.

Evolutionary adaptation cer-tainly played havoc with the artistic temperament of the class that day. But just before we finished the dissection, when determination had reduced our jaws to rugged warning, we took had food all over our exteriors time off and had our picture as well as the interior-(that is, taken. Twenty years hence, em- have you ever tried blueberry bryo scientists at Woods Hole pie in a pie eating contest?). will gaze at that picture with awe and envy and the present invertebrates with hoary beards will shake their heads and sigh reprovingly, "This present gen-eration of invertebrates!—now when I took the invertebrate course—". But now the only thing we can think of is, "It's all over", plus an explosive "darn" or something stronger.

"darn" or something stronger. So just to have a grand and glorious good time together be fore August 9 rolled around the whole invertebrate "gang" went to Tarpaulin Cove for the one and only pienic. We refuse to say we had a "grand and glor ious time", that would be put ing it mildly and if we raved with the degree of enthusias we feel, such charming phrases as "gush", "trash", et cetera would float by night upon the fogs of Woods Hole. Do you want to know what we did'-well, just a little too versa, tile, Woods Hole. We are afraid he will have to find larger hunt getting just a little too versa, tile, Woods Hole. We are afraid he will have to find larger hunt getting just a little too versa, the invertebrates play it is as experience never to be forgot tem-mixed teams, good players, the swarthy team, headed by Dr. Dawson, walked off the fride that would have made grien. And there we ate, and Napoleon fitty-five well developed oesophagi in And there when it came to "travelling on thing on the invertebrates the swarthy team, headed by Dr. Dawson, walked off the fride with one broad grin. And there when it came to "travelling on thing on the invertebrates the swarthy team. Headed by Dr. Dawson, walked off the fride with one broad grin. And there when it came to "travelling on their stomachs". The food that gisappeared down fifty-five well developed oesophagi was start, ing in the extreme. Time out: So just to have a grand and

Have you ever heard the latest use of chewing gum? The invertebrates have discovered that if you chew gum two minutes furiously, out of it you can model anything in five min-utes from a typewriter to a cirinterest in art soon waned, so luck at the charming pastime of three-legged races.

Then for about an hour the invertebrates were changed to and women's free for all, mixed back stroke race, cake carrying contest, in which the staff was sentatives.

But what we want to know is, why does everything have to end so soon. Captain Veeder and Jack simply insisted that all the invertebrates get back in time for Mess even though half of us And then it was all over,-

the invertebrates are no more!

#### Survival of the Fittest!

The following list has been compiled for the benefit of the world at large and those mentioned below in particular to inform it and them of those who proportion to their size are very have declared their intention of remaining in Woods Hole until

September 1, or longer.

Albert, J Orbison, Agnes.

### The Torpedo Ray

For ages the torpedo has been known to possess all the properties that we now associate with it. Today as in the past it carries terror and wonder to the layman. Its reputation is so extreme that it has been the nature of many episodes.

The organ by which the torpedo produces this charge of electricity is analogous to that of the Leyden jar. These electric organs are large flat uniform bodies, lying on each side of the head. They consist of hexagonal prisms in contact with the integuments above and be-low. Each of the prisms is divided into tranverse compartments filled with clear, jellylike fluid and lined by an epi-thelium of nucleated corpuscles. Between the epithelium and the compartments are the nerve ramifications. Each organ receives one branch of the Trigeminal nerve and four branches of the Vagus. The magnitude and the number of the nerves bestowed on these organs in extraordinary. Nerves are given to parts, either for sensation or action.

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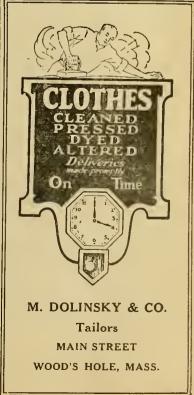
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### CORPORATION BY-LAWS

notice of meetings of the members by publication in some daily newspaper published in Boston at least fifteen days before such meeting, and in case of a special eases and Leaf Variagations. meeting the notice shall state After the lecture the class ad-the purpose for which it is journed to lab and engaged in called.

IV. Twenty-five members Field Meet. shall constitute a quorum at any meeting.

V. The Trustees shall have the control and management of the affairs of the Corporation; they shall present a report of its condition at every annual meeting; they shall elect one of their number President of the Corporation who shall also be Chairman of the Board of Trustees; they shall appoint a Director of the Laboratory; and they may choose such other officers and agents as they may think best; they may fix the compensation and define the duties of all the officers and agents; and may remove them, or any of them, except those chosen by the members, at any time; they may fill vacancies occurring in any manner in their own number or in any of the offices. They shall from time to time elect members to the Corporation upon such terms and conditions as they may think best.

VI. Meetings of the Trustees shall be called by the President, and whistling again, resulted, or by any two Trustees, and the in several cases, in a sort of Secretary shall give notice there- hysterical exhaustion. The of by written or printed notice fourth event was a boxing match postpaid. Seven Trustees by mail, constitute a quorum for the transaction of business. The Board of Trustees shall here Board of Trustees shall have vious records. (That v power to choose an Executive breakage recorded). Committee from their own number, and to delegate to such Committee such of their own powers as they may deem expedient.

VII. The accounts of the Treasurer shall be audited annually by a certified public accountant.

VIII. The consent of every Trustee shall be necessary to dissolution of the Marine Biological Laboratory. In case of dissolution, the property shall be disposed of in such manner and upon such terms as shall be determined by the affirmative vote of two-thirds of the Board of Trustees.

IX. These By-laws may be altered at any meeting of the Trustees, provided that the nowill be acted upon.

ing, either in person or by attraction of the Gay Head clay proxy duly executed.

ALGAE

Last week the botanists celebrated as usual with a Monday Marine Biological Laboratory journed to lab and engaged in the Annual Indoor Track and The events were exciting and hotly contested. The first of these was the 30- aim. inch dash, a feat of great skill and daring. The "thirty inch" refers to the length of a piece of family are spending the summer string to which is tied a marshmallow, and the point of the contest is to obtain the marsh-

mallow which is swinging at the other end of the string by suction or any other means except anchoring the string between two incisors and using the tongue as a spool. This was won by Helen Brown with Fanny Fern Smith running a close second. The second event was the Six Oar Race in which the water consuming ability of the botany department was demonstrated to be phenomenal. The third event was a relay in which eligibility was limited to the ability to whistle under ordinary circumstances. The physical and mental strain in this contest was tremendous, and the exertion required in whistling, then eating a gigantic milk cracker, saying "six, thick, thistle sticks", The The last event was a spelling bee in which Father Keefe triumphed, although the whole crowd gave out on "manoeuvered". When all the fudge had been consumed, the last seminar of the season

broke up. Friday's trip to Gay Head was sufficient consolation for the absence of a Botany Picnic. The collecting was exciting. It always adds zest to collecting if there is surf and to have to sneak up behind the breakers and grab, and then when you have a basket full of algae to have a wave sneak up on you! It has always seemed particularly tragic to us that there is no instrument to record the surprised expression assumed by a botanist when he finds himself tice of such meeting shall state that an alteration of the By-laws pected to sit, and his hoard of algae floating back to its native X. Any member in good habitat. Besides the surf, how-standing may vote at any meet- ever, there was the additional and lobster sandwiches. But

since no botany trip can be considered complete without some charge of the botany course truly spectacular occurrence, the climax was afforded when Grace (Continued from Page 6) III. The Clerk shall give tion of meetings of the mem-brated as usual with a Mondaly in lab predicted, the Botany Department of Woods Hole Department of Woods Hole Department of Laboratory presented Miss Fanny Fern with a mighty splash, not even Smith (herself) in Mosaic Dis- taking time to take off his taking time to take off his glasses. It was very dramatic while it lasted, but it didn't last long, because a skiff had to be launched to pull them both in. Nevertheless it was an original touch, and originality is our

> on Millfield street. Dr. Gorokhoff is professor of music at Smith College. Before taking this position he was leader of a choir in New York City.

Dr. C. L. Parmenter, assistant professor of zoology and Miss Hazeltine Stedman, instructor in zoology at Mount Holyoke College, were married on Monday, August 2.

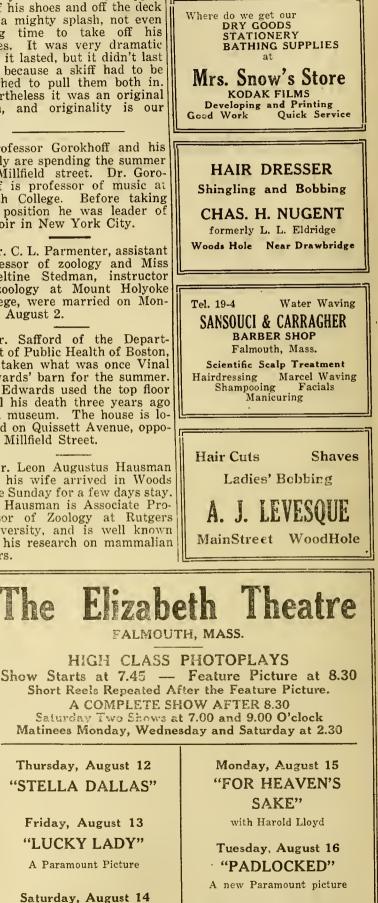
Dr. Safford of the Department of Public Health of Boston, has taken what was once Vinal Edwards' barn for the summer. Dr. Edwards used the top floor until his death three years ago as a museum. The house is located on Quissett Avenue, opposite Millfield Street.

Dr. Leon Augustus Hausman and his wife arrived in Woods Hole Sunday for a few days stay. Dr. Hausman is Associate Professor of Zoology at Rutgers University, and is well known for his research on mammalian hairs.

"PUPPETS"

featuring Milton Sills

Professor I. F. Lewis, in here, departed suddenly at the end of last week upon the receipt of a telegram announcing the death of his father.



Wednesday, August 17 "SPARROWS" with Mary Pickford



VOL. 1. NO. 5

WOODS HOLE, MASS., THURSDAY, AUGUST 19

### TOWN TOPICS

Listen, everybody! On Tuesday, August 24th in the Community Hall, Woods Hole, the annual fair of St. Josephs Church will be held. Cake. candy and fancy work tables will candy and fancy work tables will Festivities of Woods Hole were be on sale. Dancing in the held on the Cayadetta Wharf evening, will furnish a good on Monday afternoon, August time until midnight. On August 25th the same affair will be re-25th the same affair will be re-peated in Falmouth. Come one and all. The celebration begins paddlers of both sexes, old and at three o'clock in the afternoon.

Miss Mary E. Wood, librar-China, will give a talk on the in the Canoe Tilt. training of librarians in China, and on the new movement for establishing libraries in the Chinese Empire. The affair will be held at the home of Mrs. W. M. Crane on Thursday after-noon, August 26th. All those interested are cordially invited to attend.

A delightful musical was held at the home of Mrs. W. M. Crane on Sunday afternoon, August 15<sup>th</sup>. A program of select music was rendered by Miss Ilse Huebner, pianist, and M i s s Nancy Wilson, cellist. Those present were much en-thused by the inspiring music and everyone spent an enjoyable afternoon.

If there is any inhabitant of Woods Hole who should hold his head very high it is Mr. Franklin L. Gifford, who has had his picture in the papers twice this month; once in the New York Times, and once in the Boston Post, as "The Artist of Woods Hole". However, Mr. Gifford is serenely unconscious of his fame, and paints on un-disturbed. Most of his paint-ings are of marine type, with that fascinating twang of the sea worked in with every stroke of the brush, as only those who are well acquainted with the sea inception of the organization and its life are able to express. Woods Hole has every reason to be proud of Mr. Gifford!

### NATATORIAL CON-**TESTS COLORFUL**

Isabel Morgan Stars in Water Sports August 9-Canoe Tipping Furnishes Thrills.

The annual Water Sports In more or less full view of an eager and numerous throng young, made merry.

Miss Isabel Morgan was the outstanding star of the occasion. Miss Mary E. Wood, librar-ian of the Boone Library, Cen-tral China University, Wuchang, Relay, and coming out victorious

> As has always been the case in the history of Water Sports at Woods Hole in recent years the success of the event was due in large measure to the patronage of Mrs. J. P. Warbasse. Sponsored by her, these festivities have become an annual feature looked forward to by many.

> The various events were ably handled by Mr. Allen, a visitor at the Warbasse residence, and were announced by Mr. Hugh Montgomery. Contestants were summoned to the end of the pier and given instructions well in advance of their event so that the contest was attended by the minimum delay.

> > (Continued on Page 3)

### PROTECTIVE ASSO. OFFICERS ELECTED

Slight Change Made in Policy

At the annual meeting of the Woods Hole Protective Association held July 28, in the Lecture Hall a new group of officers were elected and the policy of the forthcoming year was discussed.

This Protective Association was established five years ago to provide for some sort of protection to the vacant homes of the summer colonists. Since the about ninety members have

( Continued on Page 7)

## **Botanists** Lecture

Drs. Reed and Howe Talk to Large and **Interested Audiences** 

### Absorption of lons

The evening lecture of August 6, "Absorption of Kations and Forming Plants", was the sub-Anions by Plant Roots", was ject of an illustrated lecture given by Dr. Howard S. Reed delivered by Dr. Marshall Avery of the Graduate School of Tropical Agriculture, located at the ical Gardens, in the Auditorium Citrus Experiment Station, Riverside California. The ex-Riverside, California. The experiments which have been done under his direction have been designed to study the absorption of different elements in the by no means always the most soil. The methods used were important of these. In fact, a similar to those used in standsimilar to those used in standard balanced culture solution ing of the corals as fourth in the studies with the exception that the plants were grown so as to permit observation over an ex-tended period of time. Orange trees were grown in large metal containers for several years in order to simulate orchard con-

The effect of the ditions. anions and kations of nutrient salts was determined upon the basis of dry weight increase. At present the experimenters are attempting to determine the effect upon the plants of traces of various rare elements when they are added to the standard culture solution.

J, M, F.

### The Tide in the Hole

At the following hours the current in the Hole turns to run from Buzzards Bay to Vinevard Sound:

0, 0, 0				
Aug.	20	2:08	P. M.	
Aug.	21	2:53	P. M.	
Aug.	22	3:59	P. M.	
Aug.	23	4:51	P. M.	
Aug.	24	5:46	P. M.	
Aug.	25	6:31	P. M.	
Aug.	26	7:36	P. M.	
Aug.	27	8:21	P. M.	
_				

In each case the current changes six hours later and cuns from the Sound to the Bay.

### Deposition by Marine Algae

"Reef Building and Land Howe, of the New York Botan-

different organisms which play a part in the formation of land and pointed out that, contrary to common belief, the corals are "coral reef" resulted in the placorder of their effectiveness as agents in building up land, first and second rank being held by marine algae.

Of the minute algal organisms which aid in deposition the Diatoms are by far the most significant. These forms, which are possessed of a siliceous skeleton, exist in the plankton in countless numbers and diatomaceous earth, often many feet deep, occurs at several well known localities. Many of these deposits are found in the temperate regions and on land areas which have undergone considerable uplift in past geologic time.

The larger marine algae which are important as land formers, belong chiefly to the great groups Chlorophyceae and Rhodophyceae. The former contains, in the order Siphonales, such genera as Halimeda, Udotea, and Penicillus, all of which are lime-encrusting forms and o c c u r conspicuously in the warmer waters of the tropics. The presence of these plants on the beaches of southern Florida and Jamaica, for example, where their limy skeletons contribute to the gradual upbuilding of the positive land element, must be regarded as of prime importance.

(Continued on Page 2)

### **BOTANISTS LECTURE**

### (Continued from page 1)

Among the Rhodophyceae, also, are to be found a great number of lime-encrustnig genera, such as Lithothamnion, Lithophyllum and Goniolithon, which form flat, calcareous encrustations, and Galaxaura and Corallina, which are branched types. Earlier, when little was known about the life histories of these organisms, many of them were as corals and were regarded called Nullipores. It is known now that these lime-secreting red algae, which exist chiefly in the warmer tropic and subtropic waters are important agents in the extension of the land areas. Many of them are exceedingly beautiful in habit and bear a superficial resemblance to the true corals.

In addition to the marine forms there are certain microscopic algae belonging to the Myxophyceae which occur in hot springs, such as those in portions of the western United States, and may be materially concerned in altering land surfaces.

In concluding the lecturer dwelt upon the importance of algae as fossil deposits. Many fossils, formerly supposed to be of animal origin, have since been shown to possess a microscopic structure identical with that of some of the modern Others, in cross corallines. section, show the vegetative and reproductive features of a type like Lithothamnion.

It is altogether possible that some of the most puzzling pre-Cambrian deposits may be di-rectly attributed to the products of plant metabolism. J. M. F.

#### Dr. Fish Lectures

"Biology Students in British Guiana' interesting illustrated talk given of scientific papers dealing with by Dr. H. D. Fish, professor of by Dr. H. D. Fish, professor of the Woods Hole area. For the zoology at the University of most part they concern marine Pittsburgh last Friday. The next issue of the Collecting Net will contain an account of his lecture.

### QUADRANT ELECTRO-METER MISSING

A quadrant electrometer has disappeared from the confines of the Laboratory and an exhaustive search this summer has failed to reveal any traces as to its whereabouts. It was prob-ably lost in 1924 when the Rockefeller Building was moved from the edge of the Eel Pondto its present site.

The instrument is worth well over two hundred dollars and Dr. Hitchcock, its owner, will be grateful for any information concerning this valuable piece of apparatus.

## The Woods Hole Index

first.

The leading article is by Dr. V. Cowdry, of the Rocke- erudition of our community. feller Institute and the Marine Biological Laboratory, strongly advocating the increased use of canoes in this vicinity by those physically and mentally compe- acquisition of knowledge of nattent. The article is obviously based on extensive experience, and is replete with excellent advice and sagacious warnings, even against those snares of canoeing into which the author himself is reputed to have fallen! Trips are outlined, types of canoes considered, and even the most advantageous position for the paddler (while paddling!) is described. It is quite refreshing and even mildly amazing that one who professionally considers sagaciously the innermost structure of cells should commit himself so irrevocably to articles showing that the opportunity for work has been only one of the attractions of Woods Hole!

Charles J. Fish has written, from a somewhat economic viewpoint, concerning the investigations of the New England Fisheries. Infant mortality among baby cod, reaching the astounding height of 5,999,998 deaths from every six million eggs; the reason for the high concentration of cod in Massachusetts Bay, and the possibilities of such institutions as the Mess completely exterminating the food fish of these regions are all considered.

A feature of interest to the was the subject of an more serious is a bibliography fauna, but some are botanical. For the more cultured there is a poem by Eleanor Addison entitled "Falmouth to Woods Hole." One might suspect the conditions epitomized existed only before the days of Mr. Nickerson's busses, and the schools of flivvers presumably spawning on the banks of the Eel Pond. Marie Poland Fish has described the habits of several types of tropical fish occasionally seen in these waters. The sail boat enthusiast receives anonymous approbation from F. E. K." in an article which, "F. E. K." in an article which, reprints, which are becoming while interesting, rather fails to constantly more useful to intell us anything not of general vestigators. Twenty five thousknowledge.

### **Book Shop to Close**

The second number of the Woods Hole is to be closed after Woods Hole Index, published by this season. It has been a the Dolphin Press of Woods unique landmark, and its loss Hole, under the editorship of will be felt not only by those Dr. Elizabeth Dunn, has been who have purchased an occareleased under date of August sional volume or sailing chart, but also by those of us who have considered it as typifying the

> The Index we believe to have a most interesting and useful field in acquainting us with the possibilities of enjoyment and ural history, and eagerly hope that the vast fund of accumulated experiences of the older habitues of the Hole will become available to us through its pages. T. P. H.

### LIBRARY NOTES

The Library Report presented oy the Librarian, Mrs. Priscilla B. Montgomery, to the Trustees their Annual Meeting conat tained items of interest and importance to the laboratory, particularly those in investigative work.

Since last summer seventy five periodicals have been added to our subscription list, raising the number of those currently received to over five hundred. In addition to these there are about three hundred sets of journals which have suspended publication, more or less com-The number of bound plete. journals exceeds twelve thousand.

The librarian is eager to know of new journals appearing and to receive suggestions as to the purchase of sets of periodicals not at present in our library, and useful in biological research.

Another item of importance concerned the "new book cor-A majority of the books ner'' in this collection are furnished by the publishers to the library without charge as an advertising measure. In order to convince other publishers that this donation is profitable the librarian asks that each person purchasing a book himself, or recommending the purchase of a book after becoming acquainted with it through this means leave a record of the fact on the bulletin board on the stack. Suggestion as to new books desirable to add to this collection will also be welcomed.

There are on file in the library over thirty thousand separate and were received during the past year as a result of an appeal to members of nine Ameri-Of obituary nature, the edi-torial tells us that the Book Physiological Society of Eng-Shop, so long established in land. These are being indexed the Pasteur Institute, Paris.

by author as well as by subject matter. It is particularly desired to obtain a complete set of reprints, in duplicate, of articles by investigators working in the Marine Biological Laboratory, and such contributions will be especially welcome.

The General Education Board has granted the library the sum of ten thousand dollars, payable over a period of five years for the purchase of complete sets of journals. The amount so far available has permitted the purchase of fifty-seven such sets, the most important being Pfluger's Archiv fur gesammte Physiologic, Virchow's Archiv fur Pathologische Anatomie und Physiologie and Comptes Rendus of the Academy of France.

On August twenty-eight there will be held at Woods Hole a meeting of representatives of numerous scientific libraries such as the New York Academy of Medicine, the American Medical Association, the Crerar Library, Biological Abstracts, Rockefeller Institute, Smithsonion Institution, the Library of Congress, the Surgeon General's Library and numerous university libraries to consider special problems in library administration.

Some of the questions to be discussed are the exchanging of duplicates, the establishment of a clearing house to dispose of unwanted sets, the interchange of books between libraries, the selection of special fields of re-sponsibility for a given library and the choosing of journals for subscription.

#### The Biological Bulletin

Since the enlargement of the Biological Bulletin the accumulated manuscripts have all been published or are in press and it is now possible to issue papers with a minimum of delay

The attention of investigators at the laboratory is, therefore, called to this condition. The director will be pleased to receive manuscripts for publication in the October and November numbers.

Dr. Francis G. Benedict, director of the nutrition labor-atory of the Carnegie Institution of Washington, recently left Boston to attend the twelfth International Congress of Physiology to be held at Stockholm in August. He will then make an extended tour of scientific institutions in the different European countries, and will return to Boston about January 1.

The death is announced of M. Albert Frouin, who for twenty-

### WATER SPORTS

### (Continued from Page 1)

Probably no feature of the day was more popular with the crowd than the Tub Race, altho the Canoe Tipping ran it a close second. The winners of the former event were Miss Isabel Morgan for the girls, and George Duggar for the boys.

A complete summary of the contest follows:

Boys' Race: 12 years and under-Distance 50 yds. Winner Flynn; Second: John Faggi. Winner: Lionel

Girls' Racc: 12 years and under Distance 30 yds. Winner: Field; Second: Betty Patten. Winner: Letty

Boys' Dive 12 years. and under. Winner: R. Kaltenborn; Second: John Faggi.

Gin's' Dive: 12 years and under: Winner: Letty Field; Second: Betty Patten.

Boys' Race: 15 and under. Winner: Ben Bacon; Second: A. Madeira. Time: 30 4-5 seconds.

Girls' Race: 15 and under. Win-ner: Isabel Morgan; Second: Vera Warbasse. Time: 39 seconds.

Boys' Dive: 15 and under. Winner: Ben Bacon; Second: Eric Warbasse. Girls' Dive: 15 and under. Winner: Isabel Morgan; Second: Sara Dun-

lap.

lap. Boys' Race: 16 and over. Winner: Eric Warbasse; Second: Pete War-basse. Time: 27 4-5 seconds. Girls' Race: 16 and over. Winner: Priscilla Gurney; Second: Constance Prosser. Time: 32 seconds. Boys' Dive: 16 and over. Winner: Eric Warbasse; Second: Herman Field

Field.

Girls' Dive: 16 and over. Winner: Constance Prosser; Second: Eleanor Sloan.

Boys' Relay Race: Won by Rudel Marvin, Pete Warbasse, Walter Lil-lie and Dana Allen.

Girls' Relay Race: Won by Isabel Morgan, Molly Wilson and Eleanor Sloan.

Boys' Tub Race: Winner: George Duggar. Time 1 min., 20 seconds. Girls' Tub Race: First Heat: Isabel Morgan; Second Heat: Emily Lillie. Final Heat: Isabel Morgan. Lillie. Final Hea Time: 38 seconds.

Boys' Canoe Tilt: First Heat: Eric Warbasse and Bruce Crane. Second Heat: J. Ames and Ben Bacon. Final Heat: Ames and Bacon. Girls' Canoe Tilt: Won by Isabel Morgan and Vera Warbasse in one

heat.

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### CHARMING SUMMER WEDDING HELD

### Popular Bride Honored By Large Group of Friends

Even the sun peeped forth from the clouds of fog and rain behind which it had been hiding the past while, to look upon the pretty wedding of Dorothea Nesbit Chambers, of Constantinople, and Donald Blaisdell of New York, at the church of the Messiah last Saturday afternoon

Decorations of smilax, bayberry, and woodland fern made and appropriate background for the delicate Parisian frocks in ed by the Wedding March from flower colors worn by the bride Lohengrin and the ceremony and her attendants.

The bride, as fair as the delsohn. lillies which graced the altar, wore a white georgette dress of his brother, Mr. William Blaissimple fashion elaborated with dell, and the ushers were: Mr. Her court deep embroidery. train of creamy chiffon satin embroidered with orange blossoms had been worn by Mrs. Robert Chambers at her own wedding and the point lace veil, an heirloom of Mrs. Doughty-Wylie, was sent from England for the occasion.

Miss Dorothy Applegate, maid-of-honor, wore pale green georgette and carried a bouquet in which larkspurs and yellow gladioli mingled their blues and golds. Her frock, of the same design as the sheer pink gowns worn by the matrons-of-honor and the organist, was longwaisted and full skirted and was bordered at the hem with many petaled flowers of the same material. The flowing sleeves were formed from a shoulder scarf of georgette caught at the wrist. Graceful wide brimmed hats of black and fascinating bouquets in pastel pinks, blues, Chambers. and lavenders completed the ensemble.

Dorothea and Mary Averett Seelye, the two small nieces of Seelye, the two small nieces of the bride were charming in dainty flower-girl costumes of Mr. Stanley Knight, of New soft voile printed in sweet-pea Haven, Miss Mabel Nelson, of colors over green crepe de chine slips.

The bride, a Bryn Mawr and Columbia graduate, who has been devoting her time to welfare and educational work in Turkey was given away by her cousin, Dr. Robert Chambers of Woods Hole and New York, and bride on her previous visits was married by her brother-in- here.

law, Mr. Lawrens Seelye of The | COLLLECTING NET American University, Beirut, Syria, who, with his family, is in this country at present.

The matrons-of-honor were Mrs. Laurens Seelye, the bride's sister, and Mrs. D. V. Garsten of New Haven, a cousin.

The bride was fortunate in having her college classmate, Miss Katherine Tyler of Baltimore, the accomplished pianist, to play the wedding music. While the guests were assembling Miss Tyler played Lar- er, violinist, and Mr. Fisher, Symphony, Ave Maria by Bach Gounod, and Handel's Largo. The bride's entrance was heraldclosed with the March of Men-

The groom was attended by D. V. Garsten of New Haven, of batchelor buttons which were Ahmed Hassan Bey, of Constantinople, Mr. C. W. Hinton and Dr. I. H. Page, both of New Their informal white York. flannels and dark coats were in keeping with the summer picture.

Mrs. Chambers gave a reception at Bobtucket Cottage in honor of the bride and groom. The bride received standing on the same oriental rug on which her mother at the British Embassy in Constantinople, as well as the other brides of the family, had received their wedding guests.

The relatives present were Mrs. T. C. Blaisdell, of Slippery Rock, Pa., mother of bridegroom; Dr. and Mrs. Talcott Williams, of New York City, Miss Sonia W. Williams of Bronxville, N. Y., Rev. and Mrs. W. F. Williams of Stonington, Conn., Professor and Mrs. F. W. Williams of New Haven, Conn., Master Talcott Seelye, Masters Robert, Jr., William Nesbitt, Edward Lucas and Bradford

The out of town guests included Miss Mary Allen, of Worcester, Mass., Mr. and Mrs. Archie A. Coates, of New York New York City, Mr. and Mrs. C. F. A. Pantin, of Plymouth, England, Dr. E. Grace White, of Chambersburg, Pa., Mrs. J. S. Winslow, of Fort Bragg, N. C. and Miss Helen Gunther, of Englewood, N. J.

There were present also a large number of Woods Hole friends who had known the

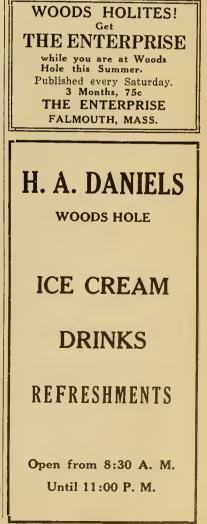
### GIVES DANCE

The staff of The Collecting Net sponsored a dance that was held at the M. B. L. Club Saturday evening, August 14. While not very many couples attended. a congenial time was enjoyed. About twenty couples were present.

An orchestra composed of Jerry Boze, saxophonist, Alice McNaught, violinist, Mrs. Fishghetto from Beethoven's 2nd pianist, made the air lively with appropriate music. Mr. Fisher added variety to the program by rendering vocal choruses to the selections.

> Through the efforts of Miss Pearl Zeek the clubhouse was very prettily decorated. Some of the floral decorations were obtained from the house of Dr. Chambers where they had been used during the marriage ceremony of his niece. Two baskets used to decorate the piano at the club, had been previously used by the bridesmaids at the wedding.

The dance was considered delightful by all who attended, and After the wedding, Dr. and charging the modest sum of \$1 a couple.



The Collecting Net

Issued under the auspices of The M. B. L. Club

Vol. 1. No. 5 Aug. 19, 1926

#### **Club** Officers

C. C. Speidel.....Vice-Pres. M. Sampson ......Scc.-Treas. Florence Tinkham. Chair. House Com. Marion Rea..... Chair. Social Com.

### **Editorial Staff**

H. Cattell, Anna C. Dunlap, Thomas P. Hughes, A. Ranger Tyler, Associate Editors.

#### Contributing Editors

A. S. Eichorn...Burcau of Fisheries J. M. Fogg ..... Sports

### Gravity

the heading of has been successful in provoking a considerable amount of discussion, and has thus perhaps ing its equipment so that it is served a useful purpose. To easily accessible only to the some it seems that both sides of older and experienced investigathe question were not equally tors. considered, and the purpose of this note is to bring out some apparently does not actually facts which were perhaps not prevent a novice from using the known to their full extent at the scales and he is just about as time the editorial in question likely to carry off weights or was written.

we learn the extent of the mis- hunt up a key or not. An anause of the balances of the lab-oratory. In 1924 and 1925 ig-case of the autoclave that was norance or carelessness resulted rather severely damaged by failin the damaging of balances to the extent of \$150.00; and last summer a set of weights certi-Had the autoclave been locked guard the apparatus from infied and standardized by the in a special room and the key Bureau of Standards was inca-only available after signing for pacitated. The cost of replac- it, the accident would not have ing lost parts and replating the been prevented. (The writer is arate rooms from the more ex-weights with gold would have intimately acquainted with the pensive balances would have the is the meeting of the Interbeen equal to the cost of a new set of weights or \$67.50. Al-ready this year one of the five If these unfortunate condi-ing the operation of weighing kilogram balances has been tions under consideration are seriously injured and the esti- caused by the carelessness of mate given for its repair is those making measurements it necessary use of the high pre-\$100.00. Four sets of ten milli-gram riders have disappeared. gators and their assistants must much toward checking the in-Due to the deleterious effects of realize their responsibility. calcium chloride on the posts and of sulphuric acid on the wood work a \$150.00 balance that they would use when workhas \$10.00.

If the facts were not indisput-able it would be difficult to be-ance the laboratory is in part lieve that such things would oc-cur at the hands of research workers in an institution of this character was imperative and should be clearly written and and the placing of the key in an individual can give satisfac-

todianship of an experienced shown how to operate them. the laboratory is known worker who is ready to assume The system of requiring the throughout the world for its lack the obligations involved in exing the balances in his room.

One wonders, however, if this is the best possible solution. We learn that little or no damage has been done since the adoption fident that hand in hand with this improvement goes greater inconvenience and less usage of the balances. For two reasons one might hesitate to weigh material when under normal conditions he would not think of Ware Cattell, Managing Editor, Helen doing otherwise. They are:

(1) The time taken in locating the key, and the possibility of not being able to obtain it on reaching the designated room.

The reluctance of the (2)younger workers to trouble those investigators in charge of the key who are older and busier than they.

The object of the Laboratory is, of course, to make arrange-The editorial appearing under ments whereby its apparatus e heading of "Restrictions" can best forward scientific recan best forward scientific re-search. This policy is not nec-essarily carried out by guard-

Locking the balance rooms prevent a novice from using the as written. It is with consternation that weigh caustic soda without a container whether he has to

been recently sold for ing with their own microscopes and other delicate equipment.

kind. Protective action of some precautions that must be taken the locking of the balance-rooms prominently displayed. Unless semi-inaccessible quarters was tory indications that he is thor-resorted to. It is interesting to oughly familiar with their use involved; (2) it hurst our sense note however that the balances and care, perhaps permission to of pride and honor to feel that of highest precision are not use the balances might not be we can not be trusted. Nemec, locked, but are under the cus- granted until he was personally Restrictions here are few and Domin.

worker to sign before entering of red tape in its administration. change for the privilege of hav-ing the balances in his room. This fixes the responsi-and the "honor system" incorpbility, and he is likely to leave things in perfect condition. His mendation. Any person con-immediate superior might be nected with the laboratory, (or the next to use the balances!

But is it necessary to lock the balance rooms? If it is, can not the key be placed in their immediate vicinity where any lab-oratory worker can obtain it at any time, and yet without inconveniencing himself or any one else?

The following plan is humbly submitted:

(1) Place one of the Harvard Trip scales (the total value of which falls under \$20.00) in once of the general laboratory rooms on each floor. With these scales it is possible to determine the weight of a ten gram mass to an accuracy of at least one per cent. In probably 95 per cent of the cases where the weight of a material must be determined, the nature of the experiment does not warrant more precise measurements.

(2) Supervise in the most effective manner the use of the more expensive balances. Two plans are possible.

(a) To retain the present plan, preferably modifying it in some way to make it somewhat less drastic.

(b) To place the better balances in the rooms of the older investigators. Here a responsi-ble person will be in the immediate vicinity for a greater part of the time.

injury due to ignorance or carelessness.

Placing the Trip scales in separate rooms from the more exmaterial as simple as possible; (2) of reducing greatly the unherent tendency to weigh material on precision balances when biological factors and physical conditions introduce errors far greater than those involved in weighing on the Harvard Trip balances. On authority we learn that the atmospheric conditions of Woods Hole cause (unless professional technique is used) a three per cent error in the weighing of half gram samples. The present system is object-

ed to on two grounds: (1) Investigation is actually

orated therein is worthy of comthose who are not for that matter) may enter the stacks at any time unquestioned; books may be taken out at will. They are treated with respect; these priv-ileges are not abused. Why? Because we have been placed upon our honor and realize our responsibilities; and because we understand the treatment that should be accorded these tools.

In compiling the list of members of the National Academy of Sciences working in the laboratory this summer the name of Professor Lorando Loss Woodruff was inadvertantly omitted. Dr. Woodruff, who is Professor of Zoology at Yale University, and has been on the Staff of Instruction of the Marine Biological Laboratory since 1905, is asked to accept our apologies

This omission would not have occurred had it been possible to locate a list of the present members of the academy at the time the note was written. We are glad to learn that the year book of the association is about to be placed in our library.

In this column last week it was stated that the laboratory discontinued publishing the evening lectures in book form in 1921. The date instead should have been 1899.

### **CONGRESS OF**

### PLANT SCIENCES

An event of interest to laboratory workers in botany national Congress of Plant Sciences at present in session at Cornell University. No gathering of like scope has been held since the session of the Third International Botanical Con-gress at Brussels in 1910. This Congress has never before convened in this country. Dr. B. M. Duggar is general secretary for the congress. The Congress is intended to bring together leaders in all fields of botanical science, including plant chemistry, phytopathology, bacterio-logy, pharmacognosy and pharmaceutical botany, agronomy, horticulture and forestry. The meetings will last from August 16 to August 23.

Among those attending from the Marine Biological Laboratory are Ethel Stippler, W. R. Taylor, S. B. Brooks, F. Hol-lander, J. B. Scott, J. R. Schramm, B. M. Duggar, B. Nemec, Professor and Madame

### THE SEA URCHIN

### **IT PRICKS WITHOUT** DISCRIMINATION

certain individual will

the train leaving on the ap-proaching Saturday for Reno, Neb.

## **COAST GUARD PICKS**

ing the outward appearance of its original state it has been fit-ted out with modern plumbing and other conveniences. The craft, though sixty-eight feet long, draws only four feet of water. Alfred Nilson, an au-thor, is its captain. gested in the project. The Division of Educational Rela-tions considered the request at its meetings in 1925 and 1926 and voted that the chairman be asked to secure some representative of the division who could represent its interest; and aid in promoting research by means of a series of conferences with the colleges concerned.

# A WOODS HOLE CONFERENCE ON

### Twenty Four Colleges Send Representatives to Conference Here

<text><text><text><text><text><text><text>

sentatives. A project was submitted and discussed. Methods already in operation in different colleges for the encouragement of research were ont-lined, and suggestions offered for in-creasing the opportunities and the stimulus for research in American colleges.

It was agreed that a research com-UP CHINESE JUNK Many people in Woods Hole watched with interest the dra-gon colored Chinese junk that the latter part of July. The the latter part of July. The passed through the fole during the latter part of July. The "Amoy", which sailed across the Pacific in 87 days three years ago, was taken in by the Coast Guard boat in Long Island Sound last week for carrying Chinese men who could not pro-duce passports. On finding that the two men in question were students, one at Harvard and the other at the Massachusetts Institute of Technology, the "Amoy" was released. The junk, sails and all, is painted in brilliant primary colors, and is decorated with dragon's eyes. Although retain-ing the outward appearance of the weigned ketait has been fit.

thor, is its captain. Mr. D. M. DeForest, of Union College, broke one of the bones in his hight arm in July while cranking the Ford of Professor H. K. Svenson. descent for the bones in his hight arm in July while cranking the Ford of Professor H. K. Svenson. descent for the bones in his hight arm in July while cranking the Ford of Professor H. K. Svenson. descent for the bones in his hight arm in July while cranking the Ford of Professor Colleges concerned. At the conference held at the M. B. L. twenty-one institutions were represented List of representatives may be included; see page 5. Dr. Goodrich of Wesleyan acted as chair-man and Dr. Sampson of Smith Col-lege as secretary. At the request of the chairman, Dr. McClung stated

HOLE CONFERENCE ON RESEARCH IN AMERICAN COLLEGES Colleges Send Representatives to Conference Here at a conference of college and university representatives the at a conference of college and university representatives to the chairman of the division of Educational Relations of

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### THE COLLECTING NET

### CZECHO-SLOVAKIAN MINISTER HERE

The Czecho-Slovakian Minister to the Court of St. James, clearly demonstrated on Sunday M. Jan. Masaryk, with Mme. Masaryk (nee Frances Crane) recently arrived at Woods Hole from Prague, where they had been visiting the Minister's ideal for his picnic as the one father, President T. G. Masaryk originally decided upon of Czecho-Slovakia, and will spend the month of August vacationing and seeing old Among those bathing on friends in Woods Hole, after Sunday were Phil Wheeler and which they will spend some time in Canada on official business before returning to London.

Mr. Daniel C. Healy, a member of the collecting crew, suf- a hundred yards was in order, fered a broken radius bone in and successfully made. his forearm and several torn ligaments in his wrist, when the engine of the motor dory, Marjorie, kicked while he was trying to start it, on the after-noon of July 28. He was rushed to the hospital in Boston, where the proper treatment was given the broken member. Mr. Healy is now recuperating in Woods Hole and is expected to have the full use of his arm in about five weeks.

Woods Hole, although a mere speck on the map, is a busy little place just the same. Not only does it allure people to come, and charm them to stay for the summer months, but our little town also is a witness to much travel. Last week a number of people were unable to board one of the boats for the Island as it was filled to capacity.

### SUNDAY ON THE WATER

The difficulty of rowing the whale boat through the Hole under adverse conditions was afternoon. It is believed that the constant negative acceleration of the craft was responsible for the decision of Capt. S. that there were other spots just as

two friends who arrived off Juniper Point before the canoe turned over in which they had been paddling. Due to the current and wind a swim of about

Skipper C. made a brave attempt to convey a group of his friends to the East Gutter on Sunday morning in his trusty sail boat. Adverse circumstances of varied nature prevented the completion of his trip. It is thought that one of the contributing factors was the peculiar psychological reactions produced upon all who board this famous vessel.

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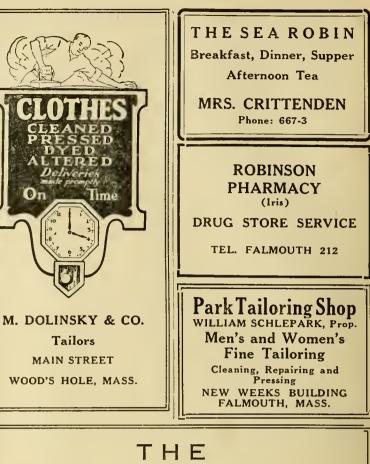
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In the Evening

### Trv

Our Small Steak, French Fried Potatoes, with a Beverage and a Desert.



# SCIENTIFIC MONTHL FOR AUGUST

The Boyce Thompson Institute for Plant Research. Professor John M. Coulter.

Parrots At Home. Dr. Alexander Wetmore.

Hunting Bighorn With a Camera. Dr. Vernon Kellogg.

The Progress of Public Health In China. Dr. Reginald M. Atwater. Politics and the Public Health. James A. Tobey.

Excursions In Experimental Psychology. Professor Raymond Dodge. The Birth of Modern Science. John K. Robertson.

The Friendship of Two Old-Time Naturalists. J. S. Wade.

- Geologic Romance of the Finger Lakes. Professor Herman L. Fairchild.
- Radio Talks On Science: The Planet Mars, James Stokley; How Plants Behave When Diseased, Professor B. M. Duggar.
- The Peculiarities of the Sensation of Cold. Professor D. Fraser Harris.
- The Progress of Science: Electric Farming; A Queer Kettle; Pro-fessor Lucien Gallois; Variation of the Sun's Heat.

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#### PROTECTIVE ASSOCIATION

(Continued from Page 1)

joined. By far the larger proportion of the members are what are known as contributing The rest, all-yearmembers. round residents of Woods Hole, are known as non-contributing members and do not share the responsibilities that are common to the other members.

pays five dollars into the treasury. This money goes toward the salary of an inspector whose duty it is to make weekly rounds to the homes of all the members and note whether everything is ship-shape or not. If any irregularities are observed by the inspector he at once nesday evenings at the Elizabeth notifies the secretary who noti-fies the owner. In this way many heavy losses have been averted. The inspector has frequently things found dwellings improperly about. locked immediately after the departure of the residents. Then during the winter the storms are wont to cause minor injuries to the buildings which, if they are not fixed, might result in a loss of a more serious nature. There is also the fac-tor of the inspector's discovering evidences of unlawful entrance. It is interesting that in the year before the founding of the association, sixteen cases of unlawful entrance were reported, whereas since that time there have been but two or three a vear.

There is an additional fee of one dollar to those members who may have cause to have workmen enter the place during the winter who will find it necessary to procure the use of the key.

It had been customary in past years to employ the inspector between October first and June first. At the meeting held this July, the time was increased to include June fifteenth.

Succeeding Dr. R. P. Bigelow, as Chairman of the association, is Dr. H. H. Plough. E. M. Ellis, chief engineer of the Cayadetta, was elected to the position of vice-chairman. Miss Florence Tinkham succeeded the Rev. J. Bancroft as secretary-treasurer. The two other members were elected to the executive committee.

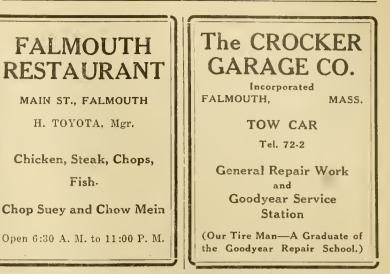
The business meeting consisted of the reports of the secretary and treasurer on the events transpiring in the past year. The Rev. Bancroft, in his double capacity rendered these reports which were favorably accepted by the members of the association.

About thirty members attended the meeting.

The Coleman and Bell Company announce to the workers of the M. B. L. that their official news organ, The Reagent News, dealing with methods of tech-nique, etc., will be glad to receive and publish short contri-butions of interest to the pro-fession under the name of the contributer. The Reagent News though a small paper reaches 7500 scientists throughout the world. All articles should be addressed to the editor of *The Reagent News*, The Coleman & Each contributing member Bell Co., Norwood, Ohio. Anyone wishing to obtain the publication regularly may do so free of charge by simply requesting to be placed on the mailing list.

> The series of moving pictures taken by the Beebe Expedition on the last voyage of the Arcturus are being shown on Wed-Theatre. Laboratory workers thus have the opportunity of viewing directly many of the things that Dr. Fish has told us







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PAGE SEVEN

#### LABORATORY Woods Hole Conference

### MEMBERS DEPART

(Continued from Page 5)

come from the colleges. He further suggested that as a first step an attempt be made to establish research committees in colleges which should below: work to secure cooperation of faculty and administration, and support for research within the college. The sucresearch within the college. The suc-cessful operation of such committees in universities was described by Pro-fessor McClung and Dr. Chidester. Dr. Rogers gave an account of the organization of such a committee at Oberlin and the advantages already obtained through it. Dr. Howland gave an interesting account of the successful drive for a research fund second the conducted at the Washington successful drive for a research fund recently conducted at the Washington Square College of the City of New York by a member of the English department, thus indicating what can be done by an individual in a college toward promoting research. Dr. Hogue and Dr. Collett spoke in favor of obtaining a representative from the National Research Council to stimulate college faculties to enfrom the National Research Council to stimulate college faculties to en-gage in research; of the policy of consultation trips from colleges to universities; of exchange of instruc-tors between colleges and between colleges and universities. The following resolutions were

drawn up:

1. That the conference approves the suggestion that research commit-tees be established in American colleges for the encouragement of research.

2. That it favors the blan of the Division of Educational Relations of the National Research Council to ap-point a representative to visit col-leges to discuss the promotion of research.

search. It was voted to request the National Research Council to finance the send-ing of reports on the project to the colleges known to be interested, with the proposal that those interested in the creation of research committees or otherwise furthering research in their institutions send written state-ments to this effect to the National Research Council.

Research Council. It was generally agreed that the following procedure might best be followed: the creation of research committees in colleges to promote re-search within the institution by every possible method; the election of a liaison member for consultation with similar members of committees in other colleges; a small executive com-mittee, elected by liaison members to act for them in aiding research.

It was voted that the chairman of the Woods Hole Conference call an-other meeting at his discretion, with the expectation that research committees may be established in some colwithin the coming year which send liaison members to such could a meeting.

**Patronize** Our

**Advertisers** 

Eat at the

Paul Beaver, P. W. Bowman, S. C. Brooks, Helen J. Brown, Sidney Britten, C. J. Connolly, Oliver Mc-Coy, George Daniels, J. E. Drayton, Helen Dyer, Mrs. J. E. Dyer, J. M. Fogg, Gladys Gordon, Ira Hansen, Dr. and Mrs. F. Hollander, G. H. Humphreys, W. Jackman, Elizabeth Kinney, Dr. and Mrs. M. M. Loucks, Al Lucas, Helen Miller, Donald B. McMullen, Mrs. J. Musgrave, Olive C. Nelson, Robin Riche, A. C. Severing-haus, Jack Shultzz, Joseph Taussig, W. R. Taylor, Miss Willard, Ferris Woods, Chao-Fa Wu, Pearl Zeek. The International Congress o Physiology opened a five-da session at Stockholm on Augus 1 under the presidency of Pro fessor J. E. Johansson. Ther were 567 delegates in attend

ance, the United States and Ger many sending 100 each, an France and England 40 each. The heading "Gravity" of the

first editorial has a double significance which perhaps may not be immediately obvious to all.

On August 13th at 3 P. M. the annual exhibition of the work done by pupils of the School of Science was held in the Woods Hole Schoolhouse. A large and interested group of parents and friends attended.

Among the famous gigglers of the world will go down the names of Miss L. T. and Miss H. J. It has been suggested that a contest be staged between them to determine th champion.

### POST OFFICE HOURS

The usual hours during which the window is open for delivery of mail, sale of stamps and other business, are given below, but may be slightly changed, deepndent on the arrival of trains and the size of the mail.

Daylight Saving Time 

	MEMBERS DEPART	The Elizabe	eth I heatre		
•	A list of people who have been	FALMOUTH, MASS.			
	eating at the Mess and have left				
1	town since last Friday is given	HIGH CLASS	HIGH CLASS PHOTOPLAYS		
l	below:	Show Starts at 7.45 — Feature Picture at 8.30			
	Paul Beaver, P. W. Bowman, S. C. Brooks, Helen J. Brown, Sidney	Short Reels Repeated Af	ter the Feature Picture.		
_	Britten, C. J. Connolly, Oliver Mc-	A COMPLETE SHOW AFTER 8.30			
5	Coy, George Daniels, J. E. Drayton, Helen Dyer, Mrs. J. E. Dyer, J. M.	Saturday Two Shows at 7.00 and 9.00 O'clock			
-	Fogg. Gladys Gordon, Ira Hansen,	Matinees Monday, Wednesday and Saturday at 2.30			
e	Dr. and Mrs. F. Hollander, G. H. Humphreys, W. Jackman, Elizabeth				
t	Kinney, Dr. and Mrs. M. M. Loucks,	Thursday, August 19	Monday, August 23		
1	Al Lucas, Helen Miller, Donald B. McMullen, Mrs. J. Musgrave, Olive C.	"SPARROWS"	"INTO HER KINGDOM"		
9	Nelson, Robin Riche, A. C. Severing-	SFARROWS	INTO HER KINGDOM		
ì	haus Jack Shultzz, Joseph Taussig,	With Mary Pickford	With Corinne Griffiths		
7	W. R. Taylor, Miss Willard, Ferris Woods, Chao-Fa Wu, Pearl Zeek.	Friday, August 20	Tuesday August 24		
ì			Tuesday, August 24		
e	The International Congress of	"MY OLD DUTCH"	"MAN TRAPPED"		
ì	Physiology opened a five-day	With Mary McAvoy	With Clara Bow		
e 1	session at Stockholm on August				
-	1 under the presidency of Pro-	Saturday, August 21	Wednesday, August 25		
f n	fessor J. E. Johansson. There	"ROLLING HOME"	"The BLACK PIRATE"		
-	were 567 delegates in attend-				
n	ance, the United States and Ger-	With Reginald Denny	With Douglas Fairbanks		
e	many sending 100 each, and		· .		
	France and England 40 each.				

1



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VOL. 1. NO. 6

### WOODS HOLE, MASS., THURSDAY, AUGUST 26

### TOWN TOPICS

### Marjorie Veeder 1905-1926

Miss Marjorie Veeder's sud-den death on Tuesday is a great shock to everyone, and to those who knew her in her work in the library is especially

We are very sorry to hear of the unfortunate accident that to provide opportunity and in-happened August 20th to Gil- spiration for students of tropihappened August 20th to Gil-bert Denham of Falmouth, when a delivery truck driver by him it is upper all of the purpose a delivery truck driver by him it is upper all of the purpose of the spirit of Plymouth town, and it seemed to King Charles a delivery truck driven by him it is unusually well situated, be-collided with the morning train ing located at the junction of from Woods Hole. The train the hit the vehicle broadside, knocking the car some distance and tropical rain forest which seriously injuring its driver. stretches some 2000 miles to the Denham was leaving the freight office and his car stalled on the most extensive and little known tracks. Although the train was jungle area in the world. slowing down to make a stop the collision was unavoidable. Denham was treated by Dr. T. A. Wiswall, and rushed to the Cape Cod hospital at Hyannis. Using the area in the world. Very interesting colored lan-tern slides were shown of Georgetown, the capital of Brit-ish Guiana, including the beau-tiful and diverse botanical garrecovery.

gratulations to Mr. W. O. Lus-combe, who celebrated his 75th gratulations to Mr. W. O. Lus-combe, who celebrated his 75th birthday at his home on Nobska some 60 miles up the Essequibo large, lighted birthday cake was ceremoniously brought in by his Views were the two small grandchildren, Anita and Betsy Luscombe. A recep-tion was given him later in the tion was given him later in the afternoon by h is numerous friends. The house was prettily decorated for the occasion, and filled with bouquets of flowers. He received many gifts, among which was a beautiful young He received many gifts, among which was a beautiful young

(Continued on Page 6)

### JUNGLE LABORATORY DESCRIBED BY DR. FISH

In spite of all superstitions to the contrary the evening of Friday, August the 13th, was a fortunate one for the laboratory workers and others who were privileged to hear a most inter-esting lecture given by Dr. H. D. members of the staff.

The idea at Kartabo has been the mignty Mazaruni and Cayuni rivers, in the heart of a

He is reported in a serious con- deas and the polyglot population dition, having a fracture of the made up principally of negroes spine. We wish him a speedy and East Indians with a fair we extend our heartiest con-We attend our heartiest con-

Road, Thursday, August 19th. A dinner party was given him by his immediate family, and a colony from where a launch was

> Views were then shown of the jungle trails, the tangle and mystery of the "great bush"

mals were shown including those mare, given by his wife and his son. of the only photographs ever taken of the fresh water Esse-

( Continued on Page 7)

## **Plymouth Laboratory Biological Center in England**

### **Our Sister Institution Has Resident Staff** Throughout The Year

### DR. C. F. A. PANTIN

The land of the Pilgrim Fathers sees today the greatest development of marine biology in America; the M. B. L. of Woods Hole. By an odd coincidence their old home at Plymouth in England now leads marine biology in the

The desire for intellectual freedom which made the Pil-sheet of water about two miles grims leave Devon was part of square surrounded on three the spirit of Plymouth town sides by land, and to the south spirit than was consistent with royal dignity. So to make sure that no unfortunate incidents should occur, the King, in 1666, built a citadel; a fine citadel on Plymouth Hoe, where Drake had played bowls. It commands a splendid view of the sound, a

### The Tide in the Hole

At the following hours the current in the Hole turns to run from Buzzards Bay to Vineyard Sound:

Aug.	28 9:26 P.M.
Aug.	2910:25 P.M.
Aug.	3011:25 P.M.
Aug.	31
Sept.	112:29 A.M.
Sept.	2 1:29 A.M.
Sept.	3 2:25 A.M.
Sept.	4 3:15 A.M.
Sept.	5 3:57 A.M.
Sept.	6 4:39 A.M.
Sept.	75:12 A.M.
Sept.	8 6:00 A.M.
Sept.	9 6:28 A.M.
Sept.	11 7:14 A.M.
	11
Sept.	
Sept.	12 8:26 A.M. 13 9:14 A.M.
Sept.	
Sept.	
Sept.	1510:41 A.M.

In each case the current changes six hours later and cuns from the Sound to the Bay.

partly closed from the open sea by a large breakwater. And the old builders had so arranged matters that two great ramparts on the seaward side enclosed an ideal site for a marine laboratory. This was the site selected two hundred and twenty-two years later by the Marine Biological Association of the United Kingdom for the building of their laboratory.

The association draws its members mainly from the universities of Great Britain and from among those people who are interested on the applica-tions of marine biology, particularly to fishery problems. The M. B. A. laboratory is supported partly by private benefactions, partly by subscriptions from members and partly by a government grant. Although it was founded at about the same time as the M. B. L., its growth has not been so rapid. But ad-ditions during the last few years have doubled former laboratory accommodation, which is now about equal to that of the old building of the M. B. L. Under the able direction of Dr. E. J. Allen, F. R. S., who has long been in charge, the laboratory is today a most active contartor of is today a most active center of biological research.

The object of the M. B. /. laboratory is two-fold. On the one hand it provides accomm dation for visiting biologists

(Continued on Page 3)

### **THE BABY REVOLUTION** Overdressed Babies:

(The following skit was written apropos of the recent events on the bathing beach during which it was revealed for the first time to certain members of the laboratory that the exposure of infants to the direct rays of the sun is considered to have a pernicious influence on adult minds. is based on actual occurrences in which laboratory members, the police department, a Catholic priest and natives of Wood's Hole took part.)

Scene: A stretch of sandy beach at Woods Hole, Mass.

Time: July 28, 1926.

Sensible Husbands; Nice on them kids, or Nurses; A Lot of Babies; The for moral turp. Chief of Police; a Quahaug Digger.

As the curtain goes up, con-fusion and lack of order seem to be main motif. The babies in-for your morals. sist on crawling away from their mothers and burrowing in the sand. For this reason a quahaug digger (sometimes called clam-digger) has been selected as stage director. He leisurely (he's a native) digs out the babies and tosses them back to the Wild Wives. Due to his cfforts we can see that there are two groups on the sand, which can be roughly classified as the Overdressed Babies and their keepers and the Underdressed Babies and their mothers. The former seem puny and listless; the latter sturdy, tanned, and extremely active. The Sensible Husbands are at the time working in the Laboratory or golfing. The Chief of Police can be seen now and then peering out from behind a beach-plum tree.

First Wild Wife: My husband is a specialist on the therapeutic value of sun's rays on the glances turn furtive and abashhuman body. He says the rays do more good than all the pink another and without taking the pills Lydia Pinkham ever thought about. My boy Hank has never been sick a day in his life, and he gets a long sun-bath every day.

my little Jack of a bad attack of eczema by sun baths. Let's take their suits off, so they can enjoy the sun and salt water the way Nature intended them to!

Chorus of W. Ws.: Let's.

Process of undressing is rapid, and half a dozen brown bodies sprawl in the white sand or splash gleefully in the waves.

Naked Babies:

A revolt we will stage on the sand,

Our rights to be free we demand.

Like Eden's first pair

No clothes will we wear,

Though we're breaking the Law of the Land.

long day With stiff white suits and hair here. in hows.

We can't have any fun this way O Nurse! Can we take off our clothes?

Nice Nurses: Horace! Percival! Come away! Don't look at those children! Their mothers have no shame for their sex.

Overdressed Babies: What's shame? What's sex? They can play a lot better without any clothes on.

Chief of Police: Come in here, Time: July 28, 1926. Characters: Wild Wives; Earl Carroll? Put some clothes on them kids, or I'll have you up

Wild Wives: What harm does it do? Who's the camplainant?

Chief of Police: Father John, a priest up the line. He's afraid

Wild Wives: More likely for his medicine. Here come our husbands, they'll back us up, and we'll take it to court.

Sensible Husbands: O dears, of course it's much healthier for the kids to be without for clothes; and they like it a lot better; and we haven't any objection ourselves, but-

Naked Babes: Daddy! What's the matter with our bodies? Why can't we go without clothes?

Sensible Husbands: Well, you see, children, some of you are boys, and some of you are girls, and your bodies are different. That is, well-er-boys and girls shouldn't play together naked. The sexes shouldn't see each other naked. Put on your clothes.

Naked Babes: Oh, we know now what sex and shame are.

Their frank and unashamed ed; they turn their backs on one time to put clothes on, burrow rapidly out of sight in the sand. The Wives and Husbands call loudly for the Stage Director to dig them out; but as he belongs to the Quahaug Diggers' Union,

Second Wild Wife: I cured he has guit at five o'clock. Curtain.

John Copeland

#### NOTES

The Honorable William M. Butler, United States Senator from Massachusetts, has made two visits to Woods Hole during the past two weeks. His motor yacht, Akbar, excited no little comment as it lay moored to the Cayadetta dock last Sunday. evening.

Dr. Fred Stewart, Assistant in Bacteriology at the Rockefeller Institute, has been visiting in Woods Hole for the past week.

Mr. Harold L. Weatherford Point in the background.

of the Harvard Medical School THE JUNGLES OF We're all dressed up all the live-long day Department of Anatomy is spending a two-week period

> Dr. C. P. Rhoades and Dr. Percy Davidson, of the Boston City Hospital Laboratory spent the week end here.

> The Palo Company, which has been giving an exhibition of scientific apparatus in the Old Lecture Hall during the past week, has lost a pair of Busch Prism Binoculars (8x Ultralux Model). Mr. Ball who was in charge of the exhibit will be grateful if any information concerning them can be given to Mr. McNaught.

> The Commonwealth, one of the regular steamers of the Fall River Line was towed to Newport on Saturday due to a slight crack which appeared in its crank shaft. It will probably not be back on duty until Labor Dav.

> Dr. and Mrs. R. P. Cowles and their two daughters of Baltimore are spending a few weeks at Woods Hole. Dr. Cowles is associate Professor of Zoology at Johns Hopkins University, and is working at the Laboratory here.

> Dr. L. L. Woodruff, Professor of Protozoology at Yale University will take charge of the Protozoology course at the Marine Biological Laboratory for the season of 1927. He succeeds Dr. Calkins during the absence of the latter in Europe.

> Jack Fogg left Woods Hole on Tuesday to join a Botanical exploring expedition to Newfound-land. Dr. M. L. Fernald, Professor of Botany at Harvard University, heads the expedition. The third member of the party is Bayard Long of the Philadelphia Academy of Sciences.

> Oak Bluffs was the scene of a series of ten raids conducted almost simultaneously by Prohibition Officials, on Saturday evening shortly before seven. Eight persons were taken into custody and fifty thousand dollars of alcoholic fluid was confiscated. Several members of our coast guard station here assisted in the foray on the illict liquor dealers.

The Sunday Standard of Aug. 22 devotes a page and a half to an illustrated account of the work of Dr. and Madam Paul S. Galtsoff, who are studying various phases of the oyster problem: It features photographs of Dr. and Madam Galtsoff, and an attractive picture showing the trip to inspect the research ins-Bureau of Fisheries Wharves titutions of the country, and with Crane's wharf and Juniper plans to remain with us for about

# **BRITISH GUIANA**

V-Wake far trailing, off southward we re sailing Toward the Carribean Sea.

- Skv opal-bright with white tropical
- light. Water rich blue that is deep-dark as night
- Thunder heads stately; great bundles of fleece,
- Tinted with rose-pink and shaded cerise.

Lightning and rain in our lea!

Water-soaked rot-blackened, wabbling stump, Olive-green, storm - scattered

weed. Waves

Waves dimple - checked and with bright silver flecked. "Bone-in-our-teeth" that is rainbow

bedecked. Double arched spectra through gray

shower mist; Reds, yellows, greens, backed by dull

amethyst, Glow, shift and mount, fade, recede.

Gliding o'er, sliding o'er, riding o'er swells.

Gently come, silently gone! Dipping and slipping and gracefully

tipping. Cables slow swinging or tarpaulin whipping!

Washing and swashing waves, never at rest:

Choppy waves, sloppy waves breaking a crest!

Steadily, readily on!

Darkness and cascades of phosphor-

ous light; Life-flares in waters that leap! Yellow-blue fire-balls in gray foam of night!

Bowings and flowings and glowings so bright!

Flurrying, hurrying, scurrying flight, Whirling and swirling and furling from sight! Passions aflame in the deep.

Pelican perched on a slow floating log!

Gulls craning necks o'er our stern. Dolphins, abreast of the bow-wave's

swift crest, Rolling and turning and jumping with zest!

Flying-fish slith'ring up, flittering

tail, Long fins far stretching, skimmering,

sail

Gracefully banking a turn!

West point of Cuba! Pigeons in flocks Fast winging toward Yucatan. Fin of a shark like a scimiter dark! Fin of a shark like a sciniter dark: Small school of whales that are out for a lark! Smoke-trail far South and a slow-moving "tanker," Speedy white "Fruit boat!" A breeze that's a spanker! Tan stinging skin that is wan.

Tan stinging skin that is wan.

H. D. F.

Dr. Milton Fairchild, distinguished educator, arrived in Woods Hole on August 22. Dr. Fairchild is author of many books in the fields of the Character Education and has been chairman of the Character Education Institution of Washington, D. C. since 1911. He is touring, taking an automobile a week.

### The Plymouth Laboratory

(Continued from Page 1)

who wish to do research there. This side of its activities is quite parallel to the M. B. L. On the other hand, the association maintains a staff of about twelve research workers who remain permanently at the laboratory. This enables many marine problems to be attacked which can only be studied effectively if observations are made continually over long stretches of time; such, for example, as the study of sea- fifty per cent of the research course in comparative physi- ities for experimentation is so sonal variations in the plankton.

Problems of strict industrial applications are already investigated at various laboratories of the shore. The seventeen foot the government. The associa- tide gives a fine exposure for tion has therefore taken the this, and during the student wise course of encouraging the courses it gives rise to a series staff to pursue investigations of of highly romantic maroonings. fundamental significance rather The majority of the material is than those of immediate applicability. The field covered by these investigations is very wide and can only be described *Haleyon*, also a large motor boat briefly. They include: factors and a sailing boat for work influencing the growth of dia-toms, Dr. E. J. Allen; bionomics well fitted with the usual gear, American biology, far more so and pathology of the oyster, Dr. including otter trawls, dredges, J. H. Orton; seasonal changes rets, and such strange appar-in phosphates, silicates and ni- atus as is from time to time intrates of seawater which prove vented by the younger members up a similar position with reto be limiting factors for diatom growth and hence control the The faun Whole marine food supply, Dr. richest in England. Apart from W. R. G. Atkins and W. H. the general Atlantic coastal Harvey; quantitative plankton fauna, many Arctic forms reach distribution, F. S. Russell. down to Devonshire by way of Feeding habits of planktonic the Irish and North Seas; and animals—each animal eats an-Plymouth is sufficiently far other animal until finally the south to come within the range last animal eats diatoms, which, of some forms properly belong-being vastly in the majority ing to the Mediterranean region. have as usual to put up with it —Dr. M. V. Lebour. Animal communities on the sea floor, O. ing, for it is in many ways com-D. Hunt. The genetics of Gam-marus—quite a marine Droso-phila—Mrs. E. W. Sexton; herr-ancestor of the true Briton). ing migrations, E. Ford; game-But in place of Limulus there togenesis in mollusca, F. are two very large crabs (cancer Palmer; biochemistry of fish edulis and Maia squinado) livers, H. O. Bull; comparative which grow to nearly a foot physiology of digestion in in- across, and besides the common vertebrates, C. M. Yonge; cell lobster there is the Rock Lobster

made a good library covering may be said that one member of almost every branch of biology the staff has undertaken the and chemistry a vital necessity. It is also important in another way. A visiting investigator "esculentus." So far he is doing can always find someone who is as well as can be expected, able to give him detailed infor- though he fears that the modern mation as to suitable organisms rapid changes in zoological

tory accommodations for visiting investigators. There is selves are very varied. Within available accommodation for a radius of a few miles are sand, some forty workers besides the gravel, mud, and rocky shores permanent staff, rooms or tables of both limestone and igneous being obtained simply by appli- rocks.

cation to the director. This side of the laboratory's activities is assuming an ever increasing importance, for, as with the M. B. L., the number of visiting investigators increases rapidly every The increase is largely year. due to the formation of a department for general physiology and experimental biology with quite adequate means for the purchase and upkeep of all the necessary apparatus which such a department demands. The department was only formed since the war, but it now accounts for undertaken by visitors at the station.

Material is collected partly on of the M. B. L. courses it gives rise to a series collected by boat. The labora-tery owns a trawler, the S. S. "Salpa", about the size of the

The fauna is certainly the physiology, particularly amoe-boid movement, C. F. A. Pantin. The majority of this work is published in the "Journal of the Marine Biological Association." Heart urchins (Echinocordium main biological Association. This big range of work has and Spatangus). In passing it that are available for work in any field. This brings us back to labora-the very act of deglutition.

The collecting grounds them-

The season is different at Ply-| Dr. Cobb Talks On mouth from that at Woods Hole. The resident workers keep the laboratory open the whole year, an arrangement rendered possible by the very mild winters of Devonshire. The fauna is at its best at two distinct periods: (1) March to June and (2) the end of August to the beginning of October. Many visitors come at these times and courses are run for students, one in March in general marine biology, and one in September, an advanced ology.

Although the M. B. A. laboratory has still far to go to reach though little is yet known about the size of the M. B. L., yet both this second evil, are a great infulfill a similar function-they both serve as clearing houses for active biological research, and each one draws investigators not merely from one institution alone but from all over their respective countries. A visit to Woods Hole brings one in con-American biology, far more so than would a visit to any other single institution. Plymouth may now be said to have taken spect to Great Britain.

There could be no better point of contact between American and British biologists than that which might be provided by a free interchange of investigators between the two laboratories. Not only does a visiting investigator find himself stimulated by seeing fresh types and new methods, but he gains by meeting representatives from all over the country an intimacy with his biological cousins that gives him an invaluable key (Amphioxus is the wherever he may choose to go subsequently.

> And it is just as easy to disembark at Plymouth and then go on to London a day, a week, a month, or even a year lateryou can not outstay your welcome.

> > THE

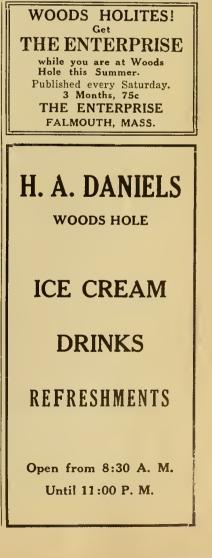
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### Importance of Nema Study

Nematodes and the lack of scientific interest in them was the subject of an informal lecture last Thursday evening in the smoking room of the Fish Commission residence by Dr. N. A. Cobb of the U. S. Department of Agriculture. Dr. Cobb deplored the fact that nematology with its valuable opportunology. The classes are, how-neglected by scientists, declar-ever, much smaller than those ing that the destruction to ing that the destruction to plants and the diseases to humans which nematodes cause alcentive to study.

An interested audience of about twenty-five attended the lecture. lecture. Dr. Cobb illustrated his words with skillfully pre-pared colored slides and blackboard sketches. At the close of the address he invited the comments and questions of zoologists in an open forum, in the course of which it was suggested that the general lack of interest in nematology might be accounted for by the ignorance among students of the proper use of the microscope and of invertebrate zoology in general.



The Collecting Net Issued under the auspices of

The M. B. L. Club

Aug. 26, 1926 Vol. 1. No. 6

#### **Club Officers**

D. J. Edwards ......Pres. C. C. Speidel.....Vice-Pres. M. Sampson ......Sec.-Treas. and the laboratory increases by Florence Tinkham. Chair. House Com. Marion Rea..... Chair. Social Com. limit!

#### **Editorial Staff**

Ware Cattell, Managing Editor, Helen H. Cattell, Anna C. Dunlap, Thomas P. Hughes, A. Ranger Tyler, Associate Editors.

#### Contributing Editors

Helen Jennings ....... Town Topics under consideration; and to this J. M. Fogg ..... Sports

### Research In Biology

in life with a definite purpose. It wants to report facts and news of interest, to forward scientific research, and it wants to foster and encourage that indefinable 'something" which for want of a better name is sometime called the "spirit of the laboratory" The atmosphere of research, informality and goodwill here is unique and precious. It is as much a part of the institution of the laboratory, and if the latter has a soul, this "something" is it! Our little weekly dedicates itself to the forwarding the objects of the Marine Biological Laboratory.

Marine Biological Laboratory is a privilege, an honor and a de-possibilities of making an arfinite responsibility. There is no place on earth where so many be a free interchange of investifine people gather-united by the common purpose of forward- logical Laboratory Association ing research in the biological at Plymouth, England, and our sciences-to understanding the own laboratory. The question Music furnishes common living organism and its behavior of funds may at first seem to ground, where all of this diverse in all its aspects and phases. It present a formidable barrier, community may meet and join is a waythy sim and the joy but probably we can provide in mutual appreciation of asis a worthy aim, and the joy but probably we can provide and intense satisfaction of money to pay the traveling ex-wresting from Nature its carfully guarded secrets can be appreciated only by those who are actually engaged in research. To us it seems that one has not known life to its full extent un-

working here for any length of time fall under its influence and become devoted to the laboratory and its work. Memories of one summer spent within its walls will last a lifetime; and without exception those who have had the privilege wish to return again-not only once but season after season-and each year one's affection for Wood's Hole leaps and bounds. It knows no

The Marine Biological Laboratory is implanted on firm foundations with assets totaling more than two million dollars. It is quite time that the question of awarding research scholarships to promising students and be-A. S. Eichorn...Bureau of Fisheries ginning investigators was taken end The Collecting Net is going to undertake a campaign to raise money for a Research Scholarship Fund which will be initiated at the beginning of the season "The Collecting Net" started in 1927. After a careful study of the financial situation we are convinced that we can meet our owners of large places become convinced that we can meet our publication expenses next summer by charging five cents a copy for our little bulletin. But we shall maintain our present charge of ten cents; and half of the proceeds from the sale of copies will be turned over to the proposed Scholarship Fund.

Even if no external aid was volunteered a sizable sum could as are the buildings and equip-ment on the grounds of the laboratory. It is the essence of the laboratory, and if firmly believe that they would consider it a privilege to forward scientific work in such a striking manner.

On another page Dr. Pantin, who is the resident staff mem-To be associated with the ber in physiology at the Plymouth laboratory, points out the rangement whereby there might gators between the Marine Biopresent a formidable barrier, but probably we can provide money to pay the traveling ex-penses of our investigators who would be selected to go to Ply-mouth. It is hoped that funds can be obtained in England to anable the Plymouth labora-ment in science. to enable the Plymouth laboratory to likewise completely reim-burse its representatives to our forth by Mrs. Murray Crane's

### Science and Music

From the standpoint of one interested in biological Woods Hole any evidence that non-biologists are settling here in increasing numbers is welcome. It will contribute to preserving influences which will help the workers.

By the greatest good fortune the laboratory people seem to have now acquired sufficient land and to have agreed on a simplicity of social attitude which will inhibit undesirable diversions.

A number of cultivated people have been attracted by this, and those are welcomed who desire to contribute to a free enjoyment of the true university atmosphere of the place. Biologists are glad to discover, near by, students of philosophy, engineering, or medical specialties. College presidents, political economists, publishers, journalists, artists, musicians: all seem to belong. Even some interested in the laboratory and actually win a high place in the esteem of the biologists by their sincere efforts to help in some way.

We all recognize the sympathetic understanding of one philanthropist who has become one of us. He expressed it not only by generous benefactions which have induced others to support the work of the laboratory, but by joining in, through personal acts which should maintain the fine old spirit of the place. From time to time, he has shared with us works of But, alas, other, less agreeable re-art and music which he brought flections are aroused. Wonder at the here for our mutual enjoyment and stimulus. It was a wonderful experience to hear the Russian Choir on the lawn, with its True. interpretation of old Russia and the character of a great people. The whole community profited immensely by the way this was done.

ment in science.

til he has struggled for months with an intricate problem of biology, gradually illuminating points that were before in total darkness. Greater is the joy than the successful culmination of business man; greater than that sensed by the architect on see-ing before him his dreams and plans as a permanent monument in brick and mortar. Those of us who have been Those of us who have been

motive and Mrs. Crane's brief and excellent talk, with explanations and discussion, was a very happy idea.

Such groups have gathered before in Woods Hole, though perhaps seldom with such definite purpose to further the study as well as the enjoyment of music. Here were real artists holding up to us intellectual ideals and practical accomplishment in a field fundamentally related to cur own work.

Such examples of constructive imagination help us.

It is certainly to be hoped that these chamber-music as-semblies shall be continued in our free hours. And what a great thing it would be should this lead further to the development of music for the community, in some way similar to the great example set by the Russian Choir.

H. McE. K.

Inadvertently the following name was omitted from the "Directory for 1926":

Corcy. H. Irene, res. asst. to Dr. McClung, Pennsylvania, Br. 219.

To the Editor of the Collecting Net: At the wonderful centre that has At the wonderful centre that has gradually been built up here at Woods Hole, one has the privilege of listening to a large number of the most brilliant lights of the many institutions scattered throughout these United States. One cannot but glory in the fact that our places of locaring process on more work of high learning possess so many men of high scientific attainment, of so high an forder of individual integrity and not least, so noble a capacity for making material sacrifices in the cause of In-tellectual Progress.

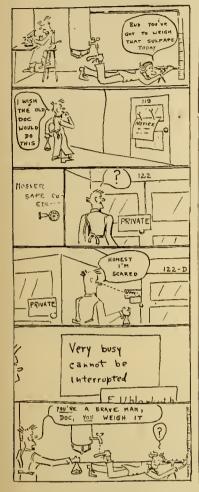
flections are aroused. Wonder at the almost universal ignoring of the first principles of Art to which these men have presumably dedicated their lives. These men are students of science. True. There are, granted, a few who devote their lives to investiga-tion and research. But the great majority surely are drawing their salaries as teachers of Youth; yet they seem to have taken no thought whatever of making themselves audi-ble to their audience. Few of these ble to their audience. Few of these men but would laugh at the most learned scientist who could not pre-sent the results of his labors in clear

There is probably not one of those gentlemen who would be guilty of publishing a text-book printed on

### THE SEA URCHIN

### IT PRICKS WITHOUT DISCRIMINATION

That Weighty Problem



what is supposed to be one of to themselves. the finest libraries of its kind in the world. The situation was untenable. It could not be allowed to stand.

in relieving the situation.

stood successfully all the various and 500 fathoms. The latter collecting trips and course pic-nics of the summer. A sad blow ries the attacking fish out of its

In September the moon is full at 3:19 P. M. on the twenty-first of the month. This piece of information is given for the Ne-reis-collectors and for others who may be concerned.

We have been asked whether "Calvinism" is a conservative doctrine. This question seems to be open to debate? Can our readers help us?

The most important matter that came up for consideration at the meeting of the laboratory Committee on Policy at its evening session was the question of the lettering to be used in in-scribing the words "Thou shalt not weigh" on the walls of the lobby of the new building.

### FISHES OF THE DEEP SEA

It was from specimens of fish taken from the North Atlantic that evidence has been found showing that fishes of the deep sea had anatomical structure and organization specially adapted for these physical con-ditions. The agreement among these fishes was that their connective tissue was so weak that it would yield and break under the slightest pressure, thereby causing great difficulty in pre-serving their bodies. Another characteristic was that some of We were shocked beyond measure last Sunday morning when an exhaustive search fail-ed to reveal that classic book on evolution—the Holy Bible—in whet is supposed to be one of

The first peculiarity was ac-counted for by the fact that if those fishes really inhabited the great depths supposed, their re-Fortunately the Trustees of the laboratory saw fit to severe-would be accompanied by such ly censor the Librarian at a and expansion of the gases special meeting on Tuesday within their tissues as to rup-afternoon called for that pur-pose. The Editorial Staff wish the content of the gases within their tissues as to rup-ture them and to cause a separa-tion of the parts which had been to commend the Trustees for held together by the pressure. their prompt and efficient action The second circumstance is explained by the fact that a fish

The *Cayadetta* is docked at the Fish Commission Wharf for repairs. It seems to have with-habiting a depth of between 300 was dealt, it appears, by the rigors of the Investigators' where the diminished pressure Picnic of last week. A petition signed by the two individuals concerned accounted for the repetition in our last is-sue of a note in this column which had appeared a week pre-viously !! causes such an expansion of gases as to make the destroyer with its victim rise with in-crasing rapidity towards the surface, which they reach in dead or dying condition. Speci-mens in this condition are often

found and therefore occurrences | Lecture Given by Miss Jeffers of the kind must happen very often.

in their, range, consequently, Jeffers, last Thursday evening, physical conditions of the depths was appreciated by a large audi-of the ocean must be the same ence. Miss Jeffers lectures with or nearly the same all over the case and her ready wit enlivens or hearly the same an over the case and her ready wit entivens globe. The deep-sea fishes are a wide experience as a linguist not of a peculiar order, but and archeologist in Europe. chiefly modified forms of sur-face types. Nothing was known taken personally were made into of the exact depths inhabited by lantern slides and colored by Dr. those fishes until observations Peebles, who has been Miss Jefthose fishes until observations were made during the voyage of H. M. S. "Challenger". These results showed that deep - sea fishes inhabited the strata from 200 fathoms, as the Melam-phaes, to 2650 fathoms, as the Coryphaenoides *filicauda*. Peebles, who has been Miss Jei-fer's companion abroad for many trips. Tuesday evening Aug. 24th, at 8 o'clock, in the M. B. L. lecture hall, Miss Jeffers lec-tures on "Romola"—this is fol-lowed on the evening of the 31st

Dr. Charles P. Tibus, who is It is a welcome addition to director of the newly formed the life of Woods Hole to have School of Miscroscopy in New lectures of this unusual type. York, is visiting Woods Hole.

ten. The lecture of "A Mediter-Deep-sea fishes are not limited ranean Cruise" by Miss Mary

by the last lecture on Paris.

L. B. J.

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### TOWN TOPICS

#### (Continued from Page 1)

The recent death of Madison Edwards, chaplain of Seamans Bethel at Vineyard Haven, has caused much grief among those who knew him here. He was born in Woods Hole, and observed his 74th birthday on August 13th. For half a century, wherever New England ships have sailed, he has been well known and greatly loved, and he has spent 33 years of devoted service to sailors.

He was at the Boston Seamans Friend Society for a few years, and then instituted a Seamans Bethel at Tarpaulin Cove, where he remained in charge for five years. He went to Vineyard Haven in 1893, and passed away at his home there on August 15th. He was the son of Capt. Ben and Mary L. Edwards. His father was the first buoy setter on the New England coast. He is survived by his wife, two daughters and a son. His daughter Mrs. Austin Tower is assistant chaplain of the Bethel. His other daughter is Miss Mary Edwards of Boothbay, Me., and his son Howard Edwards of Oak Bluffs.

Dr. and Mrs. P. W. Whiting of Orono. Maine have just returned to Woods Hole. Dr. Whiting, head of the Department of Biology at the University of Maine, and his wife, who also has her Ph. D. are carrying out research in genetics there.

Prof. J. M. Bronsted, from the Polytechnic Institute of Copenhagen, Denmark, has been lecturing on Chemistry at Columbia University during the last week, and has just arrived in Woods Hole for a short vacation.

Mr. George A. Plimpton, the well-known publisher is visiting Woods Hole. He has been connected with Ginn & Co. since 1882, and is at the pesent time trustee of Amherst College. Dr. Plimpton has the largest collection of text books from the earliest date of printing, and medieval manuscripts of an educational character, in the world. Some time ago he donated a library of first editions of nearly every Italian writer along with the original manuscripts to Wellesley College.

Dr. David H. Tennent, formerly on the Embryology Investigation staff of the Laboratory and at present professor of Biology at Bryn Mawr College, has recently returned to Woods Hole. Douglass M. Whitaker a graduate student at Stanford University is working with Dr. Tennent. Both have just returned

from The Tortugas where they have spent the summer working.

Dr. Halsey, professor of Bacteriology at Tulane Medical School, is spending the summer with his family in the Warren cottage. Ethel, his oldest daughter, is a reporter for the Associated Press and left last Sunday evening for New York. Miss Noel Halsey, his other daughter, has been selling Chrysler cars this summer at Woods Hole.

The Juniper Point Players will present an entertaining program on Tuesday evening, consisting of three short plays, at the Laboratory Auditorium on Monday, August 30, at 8:30 P. M.

A Woods Hole choral society is being organized under the direction of Mr. Gorokhoff, professor of music at Smith College. The first meeting was held at the M. B. L. Club on August 24, at which Dr. Edwin Linton was elected president.

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Juniper Point Players present Eugene O'Neil's "Bound East for Cardiff"; Collin Clements' "Pierrot in Paris"; Stark Ycung's "The Twilight Saint." M. B. L. Auditorium, Woods Hole, Monday, August 30, 1926, 8.30 P. M. Tickets from Miss Spalding and Dr. Ellsworth. Park Tailoring Shop M. DOLINSKY & CO. WILLIAM SCHLEPARK, Prop. Men's and Women's Tailors **Fine Tailoring** MAIN STREET Cleaning, Repairing and Pressing NEW WEEKS BUILDING FALMOUTH, MASS. WOOD'S HOLE, MASS. THE SCIENTIFIC MONTHL FOR AUGUST The Boyce Thompson Institute for Plant Research. Professor John M. Coulter. Parrots At Home. Dr. Alexander Wetmore. Hunting Bighorn With a Camera. Dr. Vernon Kellogg. The Progress of Public Health In China. Dr. Reginald M. Atwater. Politics and the Public Health. James A. Tobey. Excursions In Experimental Psychology. Professor Raymond Dodge. The Birth of Modern Science. John K. Robertson. The Friendship of Two Old-Time Naturalists. J. S. Wade. Geologic Romance of the Finger Lakes. Professor Herman L. Fairchild. Radio Talks On Science: The Planet Mars, James Stokley; How Plants Behave When Diseased, Professor B. M. Duggar. The Peculiarities of the Sensation of Cold. Professor D. Fraser Harris. The Progress of Science: Electric Farming; A Queer Kettle; Pro-fessor Lucien Gallois; Variation of the Sun's Heat. THE SCIENCE PRESS LANCASTER, PA. GARRISON, N. Y. GRAND CENTRAL TERMINAL, N. Y. CITY Yearly Subscription \$5 Three Months \$1 Single Copies 50c

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### JUNGLE LABORATORY

(Continued from Page 1)

quibo dolphin and a line giant or 15 banded armadillo. The pictures of peripatus, giant tree snails, fresh water sting rays, tree frogs of startling color and Hoatzins were of special inter-Hoatzins were of special interest.

shudder Α slight went through the audience when Dr. Fish showed slides of the Red Howler monkey and the iguana, relating the while their place on the menu of the laboratory workers. The writer, however, can personally attest their palatability, especially when served a la Kartabo.

Dr. Fish was anxious to compare the biological opportunities elsewhere in British Guiana with those at Kartabo and made use of a canvas covered canoe to go 225 miles into the interior ultimately reaching Kaieteur Falls on the Potaro River. Here a stream some 400 feet wide and 20 feet deep drops perpendicularly 741 feet (five times as high as Niagara) into a gorge which extends down stream some 50 miles between parapets 1200 feet high.

Above these falls there are small savannah-like open spaces in the midst of the rain forest. The smaller trees and shrubs bring the flowers and consequently the insects of the treetops down to the ground where they can be studied in a way which is impossible in the deep jungle for there one sees few flowers on the ground.

Dr. Fish related the excellence cf health conditions in that part cf the colony and one can easily imagine the enthusiasm of any worker when it is possible, as happened in one instance, to collect 100 species of lepidoptera in four hours, many of them undescribed.

M. C. K.

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### MANY WORKERS LEAVE

The following people have been eating at the Mess and have left town since last Saturday: Mary Ballard, W. C. D. Be-wick, Dr. W. C. Bullington, Virginia Burke, Miss E. L. Bur-L. J. Cole, Mrs. N. C. Curtis, W Duryee, Helen Dyer, Mr. and Mrs. H. T. Folger, G. M. Franke, E. Gabritshevsky, M a d e li n e Geanb, Mr. and Mrs. R. P. Hance, Mabel Hedge, Mr. Kline, E. Mentz, Eleanor Mitchell, William H. Mitchell, Mrs. H. William H. Mitchen, Mis. H. Neubauer, N. Norodin, Mark Potter, F. N. Ratcliffe, Dr. Richter, Miss Richter, Bessie G. Roche, C. G. Rogers, Edith Showers, Adair Sohst, Evelyn Sohst, Mrs. and Mr. R. C. Sohst, Curt Stern, F. W. Stewart, Edith Stiffler, N. W. Stiffler, A. H. Sturtevant, Margaret Sumwald, G. W. Thomas, Edna Vreeland, Marion P. Watson, E. W. Grace White.



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### To The Investigators of The Marine Biological Laboratory:

As you no doubt know, we recently exhibited some of our apparatus at Woods Hole. Perhaps you were one of the very busy people who were unable to attend the exhibit, or perhaps you were not able to examine some of our apparatus as carefully as you would have liked.

Would have liked. We announced and exhibited for the first time an entirely new line of apochromatic objectives. We are very proud of these ob-jectives and justly so. Several authorities have pronounced them to be "at least the equal of any objectives I have ever examined". We are offering the following apochromatic objectives:

t. No.	Focus	Num, Aperture	Price	
150	16 mm.	0.30	\$26.00	
152	8 mm.	0.60	39.00	
154	4 mm.	0.95	52.00	
156	3 mm.	0.95	56.00	
158	2 mm.	1.30	69.00	
159	2 mm.	1.40	100.00	
160	1.5 mm.	1.30	90.00	
161	3 mm.	1.30	69.00	
162	3 mm.	$1.40\degree$	100.00	

We also are offering a 3 mm. water immersion achromatic ob-

We also are offering a 3 mm. water immersion achromatic ob-jective with a numerical aperture of 1.10. This is an exceptionally well corrected objective of unusual brilliance. The price is \$30.00. Our new Rotary Microtome No. 815 attracted considerable at-tention. This microtome is patterned after our No. 820 precision rotary microtome, which has been the standard for so many years. This new microtome will **consistently** cut sections from 2 to 40 microns in thickness in multiples of 2 microns. The price, \$175.00. The new combination binocular-monocular body, the universal binocular microscope with its great range of magnification and un-equaled stereoscopic vision, the new fork type substage and many other older standard instruments received their full share of atten-tion.

We will be very pleased to send literature describing any of our various products, or if you desire we will be glad to send our products themselves on approval, in order that you may have an opportunity to thoroly test them. We at all times try to be of service.

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### MOTOR REGULATIONS | BOOKS MISSING FROM LIBRARY

The following information is given for the benefit of workers from other states, planning to bring automobiles to Woods Hole for the next season:

Persons keeping cars in the Commonwealth of Massachusetts for periods of less than thirty days will not require licenses either for the machine or operator, provided that they are registered in a state granting similar privileges to Massachusetts cars. Persons staying over this period must secure both on Great Ledge. The yacht was types of license. the Halcyon II., belonging to types of license.

Beginning January first next no motor vehicle can be regis-tered in Massachusetts without ran into the ledge under full submitting proof of liability se- sail. The Base pulled her off curity with the application. after 20 minutes work and tow-Three types of security are recognized as adequate, (1) the ordinary Liability Insurance Policy with at least ten thousand dollar limit, (2) a surety Bond in the sum of ten thousand dollors or (3) a deposit of five thousand dollars in cash or securities with the Division of Highways. It is specified that the Insurance or Bonding Companies must be authorized to do business in Massachusetts to be acceptable. Under the amended Act judgment may be taken against the owner of a car so registered for all damages incurred by anyone operating the car with his "expressed or im-plied consent", as well as when he himself is operating.



The following books have been lost from the library during the summer. The librarian would be grateful if they could be located.

(1) Michaelis, Leonor: Practical Physical and Colloidal Chemistry. 540 M 58.

McClendon and Medes: Phys-(2)ical Chemistry in Biology and Medi-cine. 540 M C 132.

(3) Carnegie Inst. Public No. 327. Bridges and Morgan. Publication

On August 20th the coast guard Base 291 went to the rescue of a yacht which had run Geo. L. DeBlois of Marblehead. She was headed for Nantucket. ed her into the harbor where she anchored. No damage was done.

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### NOTICE

Copy could not be obtained before going The schedule for which this to press. space was reserved will be found posted at the Mess and at the Main Bulletin Board in the Brick Building.

Monday, August 30th

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