











VOL. 1. NO. 1

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

TEN CENTS

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. 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 Physiology 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 con-ferred on "men of disting-uished imminence in some subject within the scope of biology 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

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. Woolford B. Baker. Every morning, including Saturday, Dr. Calkins o'clock Professor H. S. Jennings, a chance he might be a pleasant a chance he might be a pleasant schedule of this week: on Wednesday, July 21, weather perconstructive picture of the conmicroscopes. Instead of hav- maze. ments seems imminent.

(Continued on Page 7)

LIVING CONDITIONS FOR LABORATORY WORKERS

The completion of the new with similar aims were welcomed. 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 place at M. B. L. is the Proto-the considerable plant which had sacrifice of time and effort in zoology Lab., for the hunt is on. already been built up, has finally those days of meager income. On June 29th, the class of '19 brought about a state of basic was introduced to what Prof. stability which assures the fu-

the course seems to consist of a ed group which has grown larger a room in her home. It was al-

BIOLOGY AND

lectures for one hour, and then Director of the Biological La-the fun of chasing begins. But boratory at Johns Hopkins hunter". Sometimes a prized

mitting, the class sets out on the good ship 'Cayadetta' at biological investigator, with the good ship 'Cayadetta' at biological investigator, with the good ship 'Harbor, on a their historical origins. The lies were made by the residents picnic. On Friday afternoon, history of recent years of pre-the 23rd, tea will be served at liminary recognaisance with acthe M. B. L. Club by the Proto-zoology class. Come and join the fun. The reason for dispute which have led to the much good understanding now the M. B. L. Club by the Proto-counts of the currents and join the fun. The reason for dispute which have led to the the Saturday lectures is that modern outlook and opportuni-Dr. Calkins expects to sail for Europe about August 1st, a week before the formal closing of the course; and in order to make his lectures complete in one-hour doses, there must be make his lectures complete in threads of influence and effort sive activities of laboratory work one-hour doses, there must be into a significant pattern that that quantity rather than refinesix each week. Perhaps this even the mere tyre of an inves-extra lecture has been the tigator might realize the comcause of the unusual impetus of plexities of the background in was hardly criticized; restaurthe attack on the Protozoa in which the problems of today are ants attracted few; and a meal 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 hard to get the class out of the laboratory and away from their from what might seem a tangled state was

the laboratory sometimes leads to dagger-looks for some individuals from others who have the usual desire to swim and play tennis and so forth, as a excess of adjectives, but a readraise in the course require- ing of the forthcoming published for a while by inducing them to lecture will satisfy the exacting give up their houses for the sum-Perhaps this speed is some-critic that this appreciation is mer. not extreme.

brick laboratory, with adequate whatever seemed necessary to library, and splendid facilities further the development of bet-Gary N. Calkins, the Director, ture efficiency of the laboratory. of the cities were lacking. It termed as the "Beginning of six weeks of fun". In the main termined upbuilding by a devotcontinuous, relentless chase of year after year, as newcomers ways the lady of the house who had to be persuaded, the landlord keeping out of the deal if he were spared responsibility of en-EXPERIMENTATION tertaining or being bored by the intruder.

They were often very kind and 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
It was a superb analysis and hunter". Sometimes a prized suite was given up to a favorite lodger, and even a bath was permitted, if there was a bathroom, when a naturalist became very when a naturalist became very and by the students of rare or unexpected human qualities and mand at the mess. So the mess

But this simple irresponsible state was gradually affected by 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 pathways and warnings of false resulting from so much time in prehensive scope, penetrating the inevitable biological results of growth and multiplication. Need of organization and segregation to minimize interference from new domestic duties of the student, now become professor with a family, forced such to prehensive scope, penetrating the inevitable biological results

H. McE. K. (Continued in Next Issue)

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

Club Officers

D. J. Edwards	
C. C. SpeidelVice-P	res.
- SampsonSecTr	eas.
Florence Tinkham. Chair. House C	
Marion Rea Chair. Social C	lom.

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Helen I. Morris
C. H. Willey Aozotorp
X. Y. Hollander Anions and Snoitac
Cecile ConklinEmbroyos
Eleanor SloaneJelly Fish
W. V. Craghton
Helen Jennings Town Topics

I was officially born on Mon-day July 12, when the Executive would have been consumed had Committee of the Marine Bio- we spent the evening at one of logical Laboratory sanctioned the places on the Cape will rethe proposal for my birth. It main untouched. The orchestra, was not a case of artificial activ- refreshments and the opportuniation for perfectly natural condi- ty of dancing with so many 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

certain qualities. Unity, organi- working in research, or those zation and differentiation were students planning to take up this incorporated into my amor-same or in widely different fields pherous and plastic body. Hav-work should seize every opporing had a natural origin I may tunity of becoming acquainted look forward to normal growth with their fellow workers. The creasing usefulness.

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. External agents are inhibiting certain natural tendencies, but and useful

These introductory para-graphs were respectfully submitted to a representative 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 puzzled about the best way to obtain a couple of hours of recreation at this time.

It would be difficult to estimate the number of couples that each week seek amusement outside of 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 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 plans for the inauguration of the Saturday night dances are received enthusiastically. We can join the party at the time that fits in with our schedule of work and leave at the time that suits us best. They will be a medium through which we can meet workers outside our own group, and greatly extend our circle of acquaintances. And last but not

workers and to co-ordinate the benefit from the point of view varied activities of the labora- of our work, for talking to people whose problems are in the At this very early stage in my same or widely in different elds life I am naturally lacking in is helpful and inspiring. Those and development, and ever in-most useful thing that our Club can do is to use its ingenuity in But I am only an infant and bringing about conditions that it must be carefully nurtured and at least make it possible for encouraged. My diet must be every member of the Club to

TO LECTURE

Niles Svedelius, Professor of it is essential for continued existence that I adapt myself to my environment. It is to be hoped that in the course of evolution my environment will undergo the processory medications. The students of marine algae intends to visit America to attend the International Bottonical Congress to be held at Ithaca. He will arrive in this country on August 6, and between that time and the students of marine algae intends to visit America to attend the International Bottonical Congress to be held at Ithaca. He will arrive in this country on August 6, and between that time and the students of marine algae intends to visit America to attend the International Bottonical Congress to be held at Ithaca. the necessary modifications to tween that time and the opening make my life a little more simple of the Congress on Aug. 23 he will visit Woods Hole and deliver a lecture. Anyone interested is cordially invited to attend Pro-

Dr. B. M. Duggar, professor "external factors" but we were of plant physiology at the Unigood-naturedly told that it was versity of Missouri and physioup 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 Bermuda Biologcal Station.

JELLY FISH

Sure, and we are the "bud-ng" invertebrates! When Give Actual Screen Demonstrading" invertebrates! our source of preliminary information, the catalogue, says, "The course is designed for those who have had previous subject. It will consist of labwith the habits and general ecological relations of the animals studied"-well, they simply haven't told the half of it, parture in emphasis on demonmust needs approach the sup-organisms. ply desk with the humiliating smashed 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 invertebrate lab. We blush to admit it, but it actually took some of most graceful locomotion possi-

(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 tion.'

Tuesday, July 27. Hunt Morgan, Columbia University. "Genetics and the Physiology of Development." Friday, July 30 Prof. L. Michaels, Johns Hopkins University. "The Properties of as a Model for Cell Membranes."

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 Reaction of Protoplasm to Salts" oratory and field work with and an exhibit by projection on 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 denot 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 that we have representatives certain marine ova to the action from all the rungs of the intel- of the four salts commonly found 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 admission, "I'm so sorry but I effects were shown for chormesomes and Cytoplasm. points were brought out chiefly

Following this, the lecturer gave a very exceptionally successful demonstration in projections through the new Leitz us two whole days to convince combined macro and micro-proourselves that diatoms, even jection apparatus of actual exthough they did exhibit the periments made by Dr. Reznikoff on living amoeba with the new type Chambers-Leitz Micros manipulater. These demonstrations 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-William Thompson Memorial lty of the Yale Graduate School. Lecture, delivered by Thomas These include five research fellows of the International Education Board, Dr. Pasquale Pasquini, of the University of Rome, Italy; Dr. Stanislaw Hiller, of Cracow, Poland; Dr. Ernest 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 Dr. Ross G. Harrison, of the despitzberger." Illustrated.

DIRECTORY FOR 1926

Botany Building Bot. Brick Building Br. Fenn, W. O., prof. phys., Rochester. Lecture Hall. Rockefeller Building Rock.

The abbreviations used for the positions and institutions are the same as those incorporated in "American Men of Science." Thus, taking Dr. Amberson as an example, his position during the regular colyear is assistant professor 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., Pennssylvania.

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

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

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

II. Instruction

Dawson, J. A., instr. zool., Harvard. 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.,

Trinity. Grant, Madeleine P., asst. prof. zool.,

Mount Holyoke. Willier, B. H., asst. prof. zool.,

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

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

PROTOZOOLOGY

I. Investigation

See Zoology

II. Instruction

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

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

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

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). Lillie, R. S., prof. gen. phys., Chicago

Mathews, A. P., prof. biochem., Cincinnati.

II. Instruction

Amberson, W. R., asst. prof. phys., Pennsylvania.

Fenn, W. O., prof. phys., Rochester.
Knowlton, F. P., prof. phys., Syra
Chen, T. Y., grad. stud, protozool., Columbia.
Br. 314.

Chidester, F. E., prof. zool., West
Virginia.
Br. 344.

Virginia.
Br. 344.

Chidester, F. E., prof. zool., West
Virginia.
Chidester, F. E., prof. zool., West
Chidester, F. E., prof. zool., West
Chidester, F. E., prof. zool., West
Virginia.
Chidester, F. E., prof. zool., West
Chidester, F. E., prof. zo cuse.

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

BOTANY

I. 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-Uniei, Biological Abstracts, Pennsylvania. (absent)

II. Instruction

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

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.

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. 242

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., Michigan. Br. 217.

Baskerville, Margaret, asst. prof.

phys., geo. med. Bennitt, R., instr. biol., Tufts. O.

M. 25.

Benson, Gertrude C., grad. stud. zool., Michigan. Br. 217.

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. Columbia. Br. 122C.

bia. 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., Carnegie Inst. Br. 332.
Brieger, F. G., Rockfeller. res. fel-

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.

Brown, D. E. S., instr. phys., N. Y. Univ. Br. 342.

Byerly, T. C., prof. zool., Iowa State

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. Instruction

Br. 214.

Chambers, R., prof. anat., Cornell Med. Br. 328.

(N. C.). Bot. 3.

Grant, Madeleine P., asst. prof. zool., Mt. Holyoke. O. M. 32.

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. O. M. 24. Cole, L. J., prof. genetics, Wisconsin. 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.

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.

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. Br. 343.

DeGraff, A. C., instr. phys., N. Y. Univ. Med. Br. 110. Univ. Med. Br. 110. Donaldson, H. H., prof. neur. Wistar, Br. 117.

Inst., Br. 117.

Dolley, W. L., Jr., prof. biol., Buffalo.
Br. 339.

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

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. Hopkins Hosp. Br. 302. physician,

Fales, Doris E., grad. asst. zool., Western Reserve. Rock. North. Farr, C. W., assoc. prof. phys., Washington (St. Louis). O. M.

Base. Fenn, W. O., prof. phys., Rochester

Med. Br. 313. Fogg, J. M., Jr., inst. bot., Pennsylvania. Bot. 22.

vania. 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.

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. Pennsylvania Med. Br. 309.
Goldfarb, A. J., prof. biol., Col. City
N. Y. L. 34.

N. Y. L. 34.

Goodrich, H. B., prof. biol., Wesleyan. 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.

Guthrie, Mary J., asst. prof. zool., Missouri. Br. 336. 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.

asst. prof.

Hayden, Margaret A., asst. zool., Wellesley. O. M. 5.

Haynes, Rachel, histologist, mission Stand. Biol. Stains. Com-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.
Hickman, Jane F., grad. stud. zool.,
Missouri. Br. 217. Hinricks, Marie A., Nat. Res. fellow,

Chicago. Br. 335.

Hisaw, F. L., asst. prof. zool., Wisconsin. 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.

Howlands, 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., Rockefeller Institute. Br. 207.

Jacobs, M. H., prof. zool., Pennsyl-

vania. Br. 102.

Jennings, H. S., prof. zool., Hopkins.

Br. 304. 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. Br. 228.

Kahn, M. C., instr. hygiene, Cornell 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. Norbeck's (Wis.). Bot. 5.

Knower, H. M., prof. anat., Alabama.

Br. 115.
Knowlton, F. P., prof. phys., Syracuse Med. Br. 106.
Koehring, Vera, instr. zool., Smith. Br. 217.

Lancefield, D. E., asst. prof. zool., Columbia. Br. 1. Lancefield, Rebecca C., asst., Hosp.

Rockefeller Institute. Br. 206. andis, E. M., grad. stud. phys.,

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, R. S., prof. phys., Chicago.

Br. 326.

INVESTIGATORS—Cont.

Loeb, L., prof. path., Wash. Univ. Med. Br. 122C.

Long, Margaret E., grad. stud. zool., Pennsylvania. Br. 217. Pennsylvania. Br. 217. Loucks M. M., fellow phys., Minneso-

ta. Br. 110. Lucas, A. M., instr. zool., Washington (St. Louis). Br. 111.

Lucke, B., asst. prof. path., Pennsylvania. Br. 310. Lynch, Ruth S., instr. zool., Hopkins.

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

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.

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

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Boston to Falmouth-Week Days.

A.M.s	A.M.	A.M.	P.M.s	P.M.	P.M.†	P.M.	P.M.	P.M.s				
	7.05	8.30	1.03	1.06	3.03	4.03						
	7.45	9.06		1.42		4.38	5.06	9.12				
	8.10	9.29		2.08	3.55		5.29	9.42				
	8.32	9.53		2.29		5.19	5.50	10.04				
7.00	8.45	10.10	2.30	2.44	4.25	5.30	6.05	10.22				
7.05	8.50	10.15	2.35	2.51	4.29	5.34	6.10	10.27				
7.10	8.55	10.20	2.39	2.56	4.32	5.37	6.15	10.32				
7.15	9.00	10.26	2.44	3.01	4.37	5.42	6.20	10.37				
7.19	9.03	10.31	2.47	3.05	4.40	5.45	6.24	10.41				
7,29	9.10	10.40	2.55	3.13	4.48	5.53	6.32	10.48				
7.37	9.18	10.53	3.03	3.22	4.56	6.01	6.41	10.57				
7.45	9.25	11.00	3.10	3.30	5.03	6.08	6.50	11.05				
	7.00 7.05 7.10 7.15 7.19 7.29 7.37	$\begin{array}{cccc} \dots & 7.05 \\ \dots & 7.45 \\ \dots & 8.10 \\ \dots & 8.32 \\ 7.00 & 8.45 \\ 7.05 & 8.50 \\ 7.10 & 8.55 \\ 7.15 & 9.00 \\ 7.19 & 9.03 \\ 7.29 & 9.10 \\ 7.37 & 9.18 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				

Falmouth to Boston-Week Days.

	A.M.	A.M.	A.M. 7	A.M.	P.M.	P.M.	
Woods Hole,	6.30	7.15	8.15	10.25	2.00	5.05	
Falmouth,	6.37	7.22	8.22	10.33	2.08	5.13	
West Falmouth.	6.44	7.29	8.29	10.40	2.15	5.40	
North Falmouth,	6.51	7.36	8.36	10.47	2.22	5.27	
Cataumet,	6.54	7.39	8.39	10.51	2.26	5.31	
Pocasset,	6.58	7.43	8.43	10.55	2.30	5.37	
Monument Beach,	7.02	7.47	8.47	11.00	2.33	5.40	
Buzzards Bay,	7.08	7.52	8.52	11.05	2.40	5.45	
Wareham,	7.22	8.04	9.04	11.18	3.04	5.57	
Middleboro,	7.54			11.41	3.30	6.15	
Brockton,	8.22			12.05	4.00	6.43	
Boston.	9.00	9.20	10.18	12.40	4.35	7.17	

SUNDAY TRAINS

		T	o Bosto		From Boston				
·		Re	ead Dov	wn		Read Up			
	A.M.	P.M.	P.M.	P.M.	P.M.*				
Woods Hole,	9.10	4.35	5.05	6.00	9.00	9.25	11.00		
Falmouth.	9.18	4.42	5.13	6.07	9.08	9.18	10.53		
West Falmouth.	9.25		5.20	6.14	9.15	9.10	10.40		
North Falmouth,	9.32		5.27	6.14	9.22	9.03	10.31		
Cataumet,	9.36		5.31	6.24	9.26	9.00	10.26		
Pocasset,	9.40		5.37	6.28	9.30	8.55	10.20		
Monument Beach.	9.45		5.40	6.32	9.34	8.50	10.15		
Buzzards Bay.	9.50		5.45	6.37	9.40	8.45	10.10		
Wareham,			5.57	6.51	9.55	8.32	9.53		
Middleboro,			6.15	7.18	10.15	8.10	9.29		
Brockton,			6.43	7.43	10.45	7.45	9.06		
Boston,		6.37	7.17	8.17	11.19	7.05	8.30		
•	*					A.M.	A.M.		

Cape Codder-June 27 to Sept. 12 inclusive.

Will not run July 5 or September 6.

s Saturdays only.

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, larelse imaginable, have been drawn and called various forms of Protozoa. Many new Protazoa, of this type, have undoubtedly been located if the drawings are to be considered Dr. MacDougall and 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, tory studies on frog muscle and prominent author, and writer marine eggs, etc.; the energy for the New York Times. (Continued on Page 8)

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. Wallace O. Fenn. This first 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 is a rare occurrence in so scienonly the various relations envolving H-ion, but also the ef- ity, but we still have hopes. fects 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 vae of metazoa and everything 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 Relations of Living Material."

Wednesday, July 21 — "The Mechanism of Oxidation in Living Tissues."

Thursday, July 22 — "Respiratory 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-"Oxida-

tion" 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 properties of frog muscle, respira-

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 porters, the staff shakes a solemn head,—and that is that. Perhaps there is a possibility that a "human interest" story tific and serious (?) a commun-

If we do lack news, however, we abound in local color. for the life of a botanist is a rare one. We have been working. (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 "Physiology of Root Hairs." Dr. Farr initiated us into the staff of instructors. 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 internationinterviewed by questioning re- al program of fishery investigations 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 concerned. 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 biological interest of these occasions.

No account of the life of a season was addressed by Dr. botany student, however, is C. H. Farr, who lectured on the complete without a word or two about our "quizzical" activities of root hairs when no day is complete without "a subjected to various mechan-little review-not a test, in any ical and chemical stimuli, and sense of the word, you underafter showing us a very lengthy stand,—just a diagnosis!" Are and voluminous record, famili- we not unique? We certainly

EMBRYOS

The work in the course up to ment of the Teleosts, Coelenterates, squid and Crustacea. Dr. Goodrich gave the lectures problems which are worthy of on the Teleost Embryology, Dr.

Two special lectures have been given thus far by inves-

ical 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 Hadley Harbour. The plank- Bedford. ton collected proved to be very rich in Crustacean larvae.

very big one for birthdays in Sunday at Provincetown.

PISCES

(Continued from Page 7)

biologists some of the many immediate attention, ways of Plough the Embryology of the gammas Coelenterates, Dr. Grave the tablished institutions, and other Embryology of the squid and things of mutual interest. As Embryology of the Embryology of an immediate result of the appointed to carefully consider the situation and report at a tigators concerning the work in later date. Visiting delegates their special fields of research, participated in a collecting trip Dr. Stockard of Cornell Med- on the steamer Phalarope.

Deputy Commissioner Lewis esting lecture on the effect of Radcliffe and Elmer E. Higgins, Chief of the Division of Scieninstitution on a tour of inspection - Investigations now in contemplated for the near

> The gauarium is being conarrivals. ropean extraction. the winter in the New York summer. Some seahorses are ing to dislodge some expected soon.

21st birthday on Monday.

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

Monday evening a beach honor of Sidney Britten's birth-

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 done through the Hole and in Getchell spent Tuesday in New

JELLY FISH

(Continued from Page 2)

zoa. But we certainly had our ignorant creatures!

tific Inquiry, have visited the like a miniature garden of La you will co-operate with us. France roses? But Dr. Young informed us of the fact that progress at the station, others they were "perfectly good" Church will hold their annual members of the zoological famfuture, and matters of general ily carrying the preponderous policy as well, received atten-tion.

The qauarium is being con-lake egret of feathery whitestantly visited by numbers of ness was gravely introduced as people interested in the many Schizotricha. How do they peculiar fishes and other anistand up under the weight of mals to be seen there. An unit all? But that wasn't a cirusually large lobster and a cumstance to the thrill we got wreckfish are among the late when Dr. Young found the The wreckfish, the free-swimming medusa form second individual to be caught of Clytia and announced that encounter formidable opponin American waters, is of Eu-this was its first entrance into ents, at the various golf courses He spent the scientific world.

But we didn't even wait for aquarium and now like some of a Woods Hole fog to disappear ments with considerable interthe rest of us is here for the before we were frantically try-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 party was held at Quisset in know of tracing a black thread from a recent trip abroad. 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 ti 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 Professor A. Magnin, formerly Mrs. Holcomb has been away professor of botany and director for the week end, spending of the Botanic Garden, Univer-The past week has been a Saturday at New Bedford and sity 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

TOWN TOPICS

Woods Hole, with its little date has covered the develop- the possibility of bringing to ble, just couldn't be placed un- harbors filled with fluttering 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 biological profession when cheery spirit, is a true beauty tourists passing Penzance ponds in which the "inverte-brates" were gleefully dishappiness and wide awake porting themselves, exclaimed, people. Wide awake people "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 surthat we were laughing just as rounding them. So this, dear uproariously at them. Poor reader, will be our aim in the future, to keep the dwellers of Did you ever see the "rose-petaled blossoms" of the Tu-other and with the current bellaria lifting in the water events of the day. We hope

> The ladies of the M. E. 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. on the Cape and golf enthusiasts are awaiting the tourna-

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 Eay has returned

Ho-all ye 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 A good time

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 probpart of the day Tuesday and Saturday morning to have her lecturer in physiology in the matured sufficiently to be cal-

THE COLLECTING NET

VOL. 1. NO. 2

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

TEN CENTS

TOWN TOPICS

Lifeless Body Found

Put! Put! Put! Sounded the steady beat of the engine of 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 object was hoisted aboard, and the crew drew back in surprise. Before them lay the limp body of a man long since dead.

"It was awful!" said the quartermaster. "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 unidentified."

Judge Walsh from New Bedford 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 Buzzards Bay to Vineyard Sound according to the following schedule:

July 28.....7:59 P.M. 29....8:56 " 30....9:52 " 31....10:56 66 66 Aug. 1....11:50 2....12:09 A.M. 3....1:06 4...:1:59

5....2:48In 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

Ody Found
Off Hedge Fence

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 Artificial Membranes" by Prof. L.
Michaelis, John Hopkins University

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

Leaf Variegations, by Family 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. California.

Friday, Aug. 2, 8:00 P. M.

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 wards, Fry, Harvey, Knower, Lancefield, Lewis, Packard, Mayor, Pantin and Speidel.

printed in the forthcoming is the stacatto beat of the drum, sue of "The Collecting Net" to and the sustaining rumble of the readers and to indicate the difcommittee.

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 sublecting Net, Biolog, Bio-Hopper, 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. Witschi and Patten. Abstracts of these lectures, with the exception of the last two are given below.

NEW ARRIVAL IN STURTEVANT FAMILY

fine baby boy on Monday.

CLUB DANCE

There was a sound of revelry chivalry of forty-two states and three foreign countries. From The committee, after due the confines of the sedate old M. consideration, decided upon B. L. Club issued forth the allur-"The Collecting Net" for the ing strains of music; the mournyou: why speak of Paul Whiteof native talent in our very ance.

> We doubt if there is anyone in Woods Hole who does not know what we are trying in our who was out of town that night,

Alcohol and Longevity

The regular series of the evening lectures at the Marine Biological Laboratory was opened Dr. and Mrs. A. H. Sturte- on Tuesday, June 29 by Dr. vant announce the arrival of a Raymond Pearl who is professor of biometry and vital statistics in the School of Hygiene and Public Health. The title of Dr.
Pearl's lecture was: "Alcohol and Longevity".

A restudy was made of the effects of extreme alcoholism or by night. Beneath the mystic moderate drinking as compared light of Japanese lanterns were with total abstinance in man. gathered the beauty and the To eliminate usual probability of errors in conclusions on this subject which are too generally largely assumption on inadequately tested data; the cases permanent 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. were selected with special care that the entire list of names be brinted in the forthcoming isthe stacatto beat of the drum, shown illustrating the various afford entertainment to its piano. In all fairness we ask the author's conclusion that moproblems involved, proving as ficulties which confronted the man or Vincent Lopez when we nearly normal curve than either derate indulgence gives a more have this excellent aggregation heavy drinking or total abstin-

Growth of Nerve Cells

Professor G. E. Coghill of the Wistar Institute of Anatomy and feeble way to describe. But, lest Biology, on Friday evening, there should be some poor soul July 2, delivered a lecture on "The Early Development of Bemitted follows: M. B. L. Enlightener, Heterozoids, Trial and Error, Missing Links, Amphioxious, M. B. L. Catalayst, Puffers Digest, M. B. L. Catalayst, Puffers Digest, M. B. L. Collow house on Saturday yet, Puffers Digest, M. B. L. Collow house on Saturday to evening, July 24th.

Promptly at nine o'clock, the least twelve years, published in the Journal of Computation of the saturday of the last twelve years, published in the Journal of Computation of the saturday of the last twelve years, published in the Journal of Computation of the saturday of the last twelve years, published in the Journal of Computation of the saturday of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twelve years, published in the Journal of Computation of the last twell and the l parative Neurology and other papers. His clear diagrams and demonstrations of relationships

(Continued on/Page 8)

(Continued on Page 7)

The Collecting Net

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

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F. I. Hollander.....Our Bacia respective laboratory. Helen Jennings......... Town Topics

Cooperation in Research

existence. Likewise cooperation their utmost to promote scienti-dormitories some time ago from their utmost to promote scientide dormitories some time ago from their utmost to promote scientide dormitories some time ago from the support of their utmost to promote scientide dormitories some time ago from the support of their utmost to promote scientide dormitories some time ago from the support of their utmost to promote scientide dormitories some time ago from the support of their utmost to promote scientide dormitories some time ago from the support of t of science has been split up into components so diversified and specialized that one person alone

The cost for the printing and of effectually meeting this need the paper alone in our last issue until the last minute. These low anything now asked.

The cost for the printing and of effectually meeting this need the paper alone in our last issue until the last minute. These low anything now asked.

ate his activities with those of reciprocate. the others for the good of the

its contributions. People | dividuals may be glorified at the expense of others and to the detriment of scientific progress.

another.

The proposal to initiate at the further building.

visiting other laboratories.

advancement—nay, even to his realizing that they are doing

specialized that one person alone amounted to \$83.75. We sold dormitories have grown to surabout letting others know just ed. We cannot hope to increase established who would be greatly streets. what they are doing or how they our income greatly by an in-benefitted here and who could

Those who helped in preparing of which will still be used.

WORKERS

(Continued from last week)

quainted with the problems and mer laboratory workers and hall, will now be taken down. Who said Woods Hole wasn't methods of their co-workers for friends who came along soon The Whitman House nearby, a popular place? In the past the greatest productiveness in created a new situation in the now the Women's dormitory, on week there have been more their research. It turns out that little town. Rooms were scarce, the next lot, will be moved. So yachts in the harbor of Woods in countless cases the knowledge available houses fewer, and rates there will be ample room for the Hole than there have been since

tive in the formation of new the Gansett property, and finally east end of the angle. the new undeveloped tract for

These who do not yet wish to take on On the first floor there is a the responsibilities of regular large living room for common A. S. Eichorn...Bureau of Fisheries [1] By the privilege of residents. Since many of us use by those not provided with Eleanor Sloane .Proifoelhelmathcoida learning about other work and residents must have bathrooms, a private one. The basement 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

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 ing those stores which insert antony, that the newly announced To each side of this central arin the war who leads his men to nouncements in our columns. brick dormitories and apartangement are six or seven bed battle for his own glory is not a They are contributing to our ments are to be built. These rooms, each with two beds, and good soldier. He must coordinately should have been the appropriate the laboratory should have been the description of the laboratory should have been the laboratory and into a patrio with garden to be built. These rooms, each with two beds, and good soldier. He must coordin- support, and it is our duty to buildings will provide quarters running water, while nearby is at low rates for many not placed a large wash room with toilets,

suites always in demand, on the girls. Investigators at our own lab-oratory are not sufficiently acof what one investigator was do-went up until the sky was the new brick apartment house.

ing would have materially helped limit, since there was no more | This will be set back on the land to be had for either town grass and will have three stories An hour spent in the labora- resident or laboratory worker, and a good basement. At first tory of another scientific worker could probably be spent in no better way. Mutual discussions "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 attracbeginning of the next season a This seemed to provide amply tive family suites, each with livsystem whereby this can be ac- for the future growth of the ing room, kitchen, and bath; 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 Ware Cattell......Managing Editor in the progress of scientific retory as their summer home. But there are two suites with two Helen H. Cattell, L. B. Clark, Anna search. The general plan will be Woods Hole residents had connecting bedrooms and private to have the different investiga- reached the limit of their powers bath between on each floor: Contributing Editors

tors 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

Our civilization has progressed rapidly since man first learned that cooperation and organization were essential to his advancement—nay even to his receipting that they are doing advancement—nay even to his receipting that they are doing and a season of standing can be leated to the local to the standing to stay in cold weather; so, have found rates and open—wishing to stay in cold weather; lings prohibitive. The situation a very important provision.

(3) By the satisfaction of iteration to the line as season of standing can be leated to the local to the local to the stay in cold weather; lings prohibitive. The situation a very important provision.

(3) By the satisfaction of iteration to the local to the building of dorm—there is a full equipment of elections. The laboratory developed screens, and necessary furniture.

no longer can comprehend one of its major divisions. Yet fundamentally they are inter-related, hence for intelligent research close cooperation is essential.

amounted to \$83.75. We sold dormitories have grown to surince for both new dormitory, will likewise be single men and women and for three stories and a basement and families; but still there is a will stand on the Drew House. It close cooperation is essential. Some workers are reticent financially than we had predict- of young investigators not yet corner of East and North

It is planned for 100 students, are doing it. This attitude is to creased number of readers for help so materially in developing one wing to hold 50 women, the be condemned, except perhaps they are limited; but we can look the laboratory's work.

One wing to hold 50 women, the basement on rare occasions in the field of forward to devoting a little more It is for this still unsatisfied holds storeroom, 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 s work. in the present dormitories, some showers, etc. Each of the other two floors are similarly arranged A research worker is support- the directory and whose names | Eight houses, including the men, the other for women. Cerdirectly or indirectly by charity. S. Wright Walburger A. Peter-Ibuilding now serve as downitor tainly there is nothing left to be directly or indirectly by charity, S. Wright, Walburger A. Peter-building, now serve as dormitoral though in the end the communison, and Margaret Sumwalt. We lies and belong to the laboratory.

The Destruction are not on the editorial stall are building, now serve as dormitoral desired here. The bathrooms although in the end the communison, and Margaret Sumwalt. We The Dexter House has been a heated. In addition to all this, should not be taxed, and benevolent persons should not donate LIVING ACCOMMODATIONS 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 favorite dormitory for families it is planned to put several beds where some of us boarded. Its younger men; and similarly to use will now be discontinued. The Ritter House, with family Whitman House for 35 or 40

the war.

DIRECTORY FOR 1926

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

The abbreviations used for the positions and institutions are 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 Pennsylvania. 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. gen. 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., Pennssylvania.

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

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

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

II. Instruction

Dawson, J. A., instr. zool., Harvard. Martin, E. A., asst. prof. zool., Col. City, N. Y.

Ccle, E. C., asst. prof. zool., Williams Bennitt, R. instr. biol., Tufts. Bissonnette, T. H., prof. biol.,

Trinity.

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

Mount Holyoke.

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

D. B., assoc. prof. biol., Arizona.

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

PROTOZOOLOGY

I. Investigation See Zoology

II. Instruction

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

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

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

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. C. G., prof. comp. phys. Öberlin.

PHYSIOLOGY

I. 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.

Fenn, W. O., prof. phys., Rochester. Knowlton, F. P., prof. phys., Syra-

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

BOTANY

I. 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)

J. R., Editor-in-Chief, 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-land. O. M. Base. 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

Br. 343.

Arzberger, E. G., plant path. Dept. of Agric. Washington, D. C.

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-

Br. 217. Baskerville, Margaret, asst. prof.

phys., geo. med. 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.

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. stud. phys., Pennsylvania. Br. 217. Bodansky, O., res. 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., Colum bia. Br. 331.

Bowman, P. W., instr. bot., George Washington. Bot. 22.

Breifenbacher, lect. zool. McGill. Br. 306.

Bridges, C. B., res. asst., Carnegie 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.

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

Lillie, R. S., prof. gen. phys., Chicago
Mathews, A. P., prof. biochem., Cincinnati.

II. Instruction
Jacobs, M. H., prof. gen. phys., Pennsylvania.

Dr. 042.
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.

N. Y. L. 34.
Goodrich, H. B., prof. biol., Wesleyan. Br. 210.
Gordon, Isabella, Res. Worker, Imperial College, London.
Grand, C., asst. anat., Cornell Med.
Br. 328.

Med. Br. 328.
Chen, T. Y., grad. stud, protozool.,
Columbia. Br. 314.

Columbia. Br. 314.
Chidester, F. E., prof. zool., West
Virginia. Br. 344.

Choate, Dorothy, stud. 2001., 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. 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.
Ccwdry, E. V., assoc. memb., Rockefeller Institute. Br. 209B.
Craighill, Caroline. Br. 223.

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

Darby, H. H., instr. biol., N. Y.

Univ. Br. 342. Dawson, J. A., instr. zool., Harvard

DeForest, D. M., instr. biol., Union. Br. 343.

DeGraff, A. C., instr. phys., N. Y. Univ. Med. Br. 110. 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.

Br. 234.

Duggar, 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. zool., Western Reserve. Rock. North.

Farr, C. H., assoc. prof. Bot. Washington (St. Louis). O. M. Base.

Washington (St. Louis). C. M. Base.
Fenn, W. O., prof. phys., Rochester Med. Br. 313.
Fogg, J. M., Jr., inst. bot., Pennsylvania. Bot. 22.
Fogg, L. C., grad. stud. zool, Columbia. Br. 314.
Folger H. T., instr. zool., Michigan.

Folger, H. T., instr. zool., Michigan. L. 32. Fry, H. J., asst. prof. emb., N.Y. Univ. O. M. Base.

Gabritschevsky, E., asst. geneti Univ. Moscow, Russia. Br. 332. genetics.

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. Pennsylvania Med. Br. 309.
Goldfarb, A. J., prof. biol., Col. City N. Y. L. 34.

Amberson, W. R., asst. prof. phys., Cattell, M., instr. phys., Cornell Med. Br. 214.

Fenn, W. O., prof. phys., Rochester.

Chambers, R., prof. anat., Cornell Grant, Jean F., instr. St. Mary's Sch.

Bot. 3. (N. C.).

(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. K., grad. stud. phys., Hopkins Med. Br. 229.

Harnly, Marie L., lab. assist. to Dr.

Harnly, Marie 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.

Hayden, Margaret A., asst. prof. zool., Wellesley. O. M. 5.

Haynes, Rachel, histologist, 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.

Maryland. L. 33.

Hess, Olga T., grad, stud., Brown.
O. M. Base.

Hess, Walter N., prof. zool., De

Pauw. Br.

Hickman, Jane F., grad. stud. 2001.,

Missouri. Br. 217.

Maria A. Nat. Res. fellow,

Missouri. Br. 217.

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

Hisaw, F. L., asst. prof. zool., Wisconsin. L. 26.

Hogben, L., assoc. prof. zool., McGill. Br. 213.

Holt, L. E., assoc. in pedratrics, Hopkins Hosp. L. 20

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., Rockefeller Institute. Br. 207.

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

Br. 304. 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.

Br. 228.
Kahn, M. C., instr. hygiene, Cornell
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., Syracuse Med. Br. 106. Koehring, Vera, instr. zool., Smith. Br. 217.

Kuhn, Lieut. Harry A., chief Dept. Toxicology, Chem. Warfare Service, Edgewood Arsenal. Br. 217.

Columbia. Br. 1.

Lancefield, Rebecca C., asst., Hosp.
Rockefeller Institute. Br. 206.

INVESTIGATORS—Cont.

Landis, E. M., grad. stud. phys., Pennsylvania. Br. 309. ewis, I. F., prof. biol., Virginia. Bot. 26.

Lillie, F. R., prof. zool., Chicago.

Br. 101. Lillie, R. S., prof. phys., Chicago.

Br. 326. Loeb, L., prof. par Med. Br. 122C. path., Wash. Univ.

Long, Margaret E., grad. stud. zool., Br. 217. Pennsylvania.

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

ta. Br. 110.
Lucas, A. M., instr. zool., Washington (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. Manwell, Reginald D., senior grad.

asst., Amherst. 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.

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.

S. O., prof. zool., Hepkins. Mast, S. Br. 312.

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

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

Mavor, 3.

Br. 343.

Means, J. H., prof. clin. med., Harvard Med. Br. 110.

Metz, C. W., staff memb. Carnegie
Inst. Cold Spring Harbor. Br. 222.

Michaelis, L., resident lect. med., Hopkins. Br. 319. Miller, H. M. asst. to C. Grave. Br.

226

226.
Mitchell, W. H. Jr., grad. stud. protozool., 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.
Morrison Mark E., grad. stud. phys.,

Morrison, Mary E., grad. stud. phys.,

Pennsylvania. Rock. North.

Morse, S., assoc. biophysics, Cleveland Clinic. Br. 341.

Moses, Mildred, res. ass't. Carnegie Inst. Br. 223.

fellow Int. Ed. Nachtsheim, H., Board. Br. 333.
Nadler, J. E., instr. phys., Georgia
Med. Br. 110.

Nassonov, D., asst. zool., Leningrad (Russia). O. M. 3.
Nomura, S., asst. prof. phys., Im-

perial Univ. Japan.
Nonidez, J. F., assoc. anat. Cornell Med.

Oliphant, Dolores, stud. zool., Mt. Holyoke. Bot. 1.

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

Packard, C., assoc., Inst. Cancer Research, Columbia. O. M. 26.

Page, I. H., chemist, Eli Lilly.

Palmer, G. D., asst. prof. chem., Kansas State. O. M. Base. . Pantin, C. F. A., physiologist, Marine Biol. Assoc., Plymouth, Eng. Br.

324.

Parmenter, C. L., asst. prof. zool., Pennslyvania. Br. 221. Pasquini, P., Int. Ed. Board Fellow, zool. Br. 315.

Peebles, Florence, phys. L. 21,

Perkins. E. B., grad. stud. zool., Harvard Med. W. A., assoc. med., Hop-Perlzweig,

Br. 319. kins Hosp. Peterson, Walburga A., fellow zool.,

Chicago. O. M. Base.

Plough, H. H., prof. biol., Amherst. Br. 126.

Univ. Br. 1. Pollack, H. med. stud., Cornell Med.

Br. 328. Pollister, A. W., asst. biol., Colum-

bia. Br. 314. Pond, S. E., asst. prof. phys., Pennsylvania Med. Br. 216.

Popa, G. T., chief asst. emb., Bukarest (Roumania). Br. 225. Potter, G. E., instr. zool., Iowa State.

L. 23 Rand, H. W., assoc. prof. zool., Har-

Rand, H. W., assoc. prof. 2001., Harvard. L. 30.
Ratcliffe, F. N., grad. stud. biol., Princeton. Br. 110.
Redfield, A. C., asst. prof. phys.,

Harvard Med. Br. 107.

Redfield, Helen., Nat. Res. fellow, Columbia. Br. 314. Reznikoff, P., assoc. anat. instr. med.,

Cornell Med. Br. 328. Rogers, C. G., prof. phys., Oberlin.

Br. 218. Rowlee, Silence, instr. bot., Welles-ley. Bot. 1. Salant, W., prof. phys., pharm., Georgia Med.

Schevring, Ludwig, Int. Ed. Board Fellow (Munich, Germany) (arriving the first week of Aug.)

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

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

Schwartzbach, S., med. stud. Maryland. Br. 122B.
Scott, J. P., photographer, Science Service. O. M. 6.

Scott, J. P., photographics Service. O. M. 6. Scott, W. J., grad. stud. phys. Pennsylvania. O. M. 7. Shearer, E. M., grad. stud. emb., Princeton. Br. 110. Smith, D. C., res. worker, Harvard Med. Br. 217. Smith, Fanny F., res. asst. plant phys., Washington (St. Louis)

Smith, W. A., res. asst. phys., Pennsylvania. Br. 205.

Sonneborn, M. .T, grad. stud. zool., Hopkins. Br. 303. Hopkins. Br. 303. Spaulding, Janet, res. a Cornell Med. Br. 317. asst. anat.,

Speidel, C. C., assoc. prof. anat., Virginia. O. M. 28.

Wilhelm Inst. Br. 333.
Stockard, C. R., prof. anat., Cornell
Med. Br. 317.

Med. Br. 317.
Strong, O. S., assoc. prof. neur.,
Columbia. Br. 8. mad. stud. phys.,

Sumwalt, Margaret, grad. stud. phys., Pennsylvania. Rock. West.

Tennsylvania. Rock. West.

Svenson, H. K., asst. prof. biol.,
Union. Bot. 2.
Taylor, I. R., instr. phys., Pennsylvania. Br. 217.

Taylor, W. R., asst. prof. bot., Pennsylvania. Bot. 25.

Thomas, Francisca K., Secretary to

Thomas, G. W. med. stud. Harvard Med. Br. 108.

Titlebaum, A. stud. emb. Columbia. Br. 314.

Uhlenhuth, Mrs. E., res. asst. to Dr.
Uhlenhuth. Br. 122D.
Uhlenhuth, E., assoc. prof. anat.,
Maryland Med. Br. 122D.

Uhlemeyer, Bertha, asst. prof. proto, zooi. Washington (St. Louis). Br. med. stud., Cor-Vicari, Emilia M.,

nell Med. Br. 317. Wallace, Edith M. artist to Dr. Mor-

gan, Columbia. Br. 321. Walters, Mary J., med. stud., Pennsylvania. Br. 205.

Weese, A. O., prof. zool., Oklahoma.

Wheeler, P. H., med. stud., Harvard med. Br. 210.

Wieman, H. S., prof. zool., Cincinnati. Br. 334.

Wilnelm, J. F., Jr., asst. zool., Wabash (Ind). Br. 234.
Williams, R. G., Nat. Res. fellow neur Pennsylvania. Br. 311.

Willier, B. H., asst. prof. zool., Chicago. O. M. 27. Wilson, E. B., prof. zool., Columbia.

Wilson, J. W. asst. prof. biol., Brown. Br. 329.

Witschi, Mrs. E., asst. to Dr. Witschi,

Univ. Basel, Switzerland. Br. 127.

Witschi, E., lect. zool., Univ. Basel, (Switzerland). Br. 127.

Wolff, W. A., grad. stud. chem. Pennsylvania. Br. 8. Woodruff, L. L., prof. protozool Yale. Br. 323.

Woodward, Alvalyn E., assoc. prof. phys., Maine. L. 24. Young, D. B., prof. biol., Arizona.

O. M. 33. Zimmerman, Averill A., asst. biophysics, West. Reserve. Br. 314.

STUDENTS

The abbreviations used are the same as in the list of Investigators. In the case of Miss Arnold the information given is that she is an un-Wellesley dergraduate student at 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 undergraduate student it is so indicated.

Arnold, Dorothy E., Wellesley, Bot. Avery, B. F., prof. anat., Am. Univ. Beirut, Syria, Zool.

Beale, Alice, Radcliffe, Zool. Bean, R. C., teach. biol., Girls' H. S., Boston, Zool. Beaver, P. C., Wabash, Zool.

Bonner, Miriam C., Mt. Holyoke, Emb.

Bing, F. C., Pennsylvania, Phys. Borden, Mabel A., Dalhousie, (Can.) Bot.

Marjorie, instr. phys., Mt.

Holyoke, Phys.

Brannon, Lida C., instr. biol., Dana
Hall, (Mass.) Emb.

Britten, S. A., Hamilton, Emb.

Brown, Helen J., instr, St. Mary of
Springs (Ohio) Bot.

Brokles Kethering, teach, biol

Buehler, Katherine, teach. biol.,

Albany H. S., Bot.
Campos, F. A. deM., asst. phys., S.
Paulo Medical Sch. (Brazil) Emb. Canavan, W. P., instr. zool., Pennsylvania, Protozool.

Carpenter, Esther, asst. zool., Wis

consin, Emb.
Chase, A. M., Amherst, Zool.
Chen, H. K., grad. stud., Illinois,

Emb.
Chen, T. Y., grad. stud., Columbia,
Protozool.

Clark, Elizabeth B., Radcliffe, Bot. Clarke, G. L., Harvard, Zool. Cline, Elsie, Hopkins, Bot.

Dr. Means, Mass. General Hosp.,
Boston.
homas, G. W. med. stud. Harvard

Conklin, Cecile L., instr., Goucher, Emb

Craighill, Caroline B., lab. asst., Carnegie Inst. (Washington). Copeland, J. J., Earlham (Ind.),

Crawford, W. W., grad. asst. zool., Missouri, Zool. Crosman, A. M., grad. stud., Columbia, Protozool.

Cuaiunco. F.. ins Philippines, Emb. instr. anat., Univ.

Daniel, G. E., Arkansas, zool.

Dowling, A. S., grad. stud., Harvard, phys.

Drayer, C. S., Ohio Wesleyan, zool.

Plunkett, C. R., instr. phys., N. Y. Wilbur, Lois, instr. phys., Pennsylvania. Br. 217. Else, F. L., instr. zool., Pennsylvania, emb.

Esaki, S., asst. prof. zool., Chicago, emb.

Farr, Marion M., asst. zool., Vassar, zool.

Field, Madeline E., asst. phys., Mt. Holyoke, phys. Gaffney, Catherine A., Hunter, bot

Gardiner, Mary R., asst. prof. biol., Earlham (Ind.), protozool. Gelback, Elizabeth L., asst. biol., Goucher, protozool Getchell, Donnie C., asst. biol., Colby,

emb. Goebul, W. F., asst. chem., Rock.

Inst., phys. Gordan, Isabella, res. worker, Imperial College, London.

Griffin, Grace, Columbia, bot.
Hansen, I. B., Wesleyan, emb.
Hahnert, W. F., De Pauw, zool.
Hardesty, Mary, Newcomb, zool.
Harrington, J. T., Dalhousie, emb.

Herman, Myra, grad. stud., Columbia, emb.

Herskowitz, I. A., Columbia, zool. Hess, W. N., prof. zool., De Pauw, phys. Hewes, Edna M., grad. stud. Roches-

ter, zool. Hewitt, Dorothy C., Mt. Holyoke, zool.

Hinchey, Mary C., instr. zool., Hollins (Virginia), emb. Hitchcook, D. I., assoc., Rock. Inst.,

phys. Holcomb, Mrs. Daisy Y., instr. zool.,

Arkansas, emb. Hollander, F., Nat. Res. fellow, med., Yale, Phys.

Holmes, Gladys E., Brown, emb. Holmes, M. Thelma, instr., biol, Syracuse, phys.

Holton, Ruth G., protozool. Horsley, G. W. Virginia, emb. Hummel, Katharine P., zool. Hunt, T. E., Jr., Chicago, zool.

Hurlbutt, Ellen L., instr. zool., Connecticut, zool.

Irwin, Marion S., instr. zool., Carleton, zool. Jeffers, Katharine R., Missouri, zool.

Kellicott, Janet, Barnard, emb. Kinney, Elizabeth T., grad. asst., Washington (St. Louis), phys. Klinger, Carol, Wabash, bot.

Kuniz, M., assoc., Rockefeller Institute, Rock. North. Lewis, Sara I., instr. bot., Northwest-

ern, bot. Liu, C. L., Cornell, protozool. Lu, H. L., Huping Christian (China),

emb. Maclean, Bernice L., asst. zool., Mt. Holyoke, zool.

McCoy, O. R., grad. asst. zool., Washington (St. Louis), zool. McGaun, R. C., Jr., Amherst, zool.

McGaun, R. C., Jr., Amherst, zool.
MacKay, Mary E., asst. zool., Dalhousie (Can.), phys.
McKinney, Mary A., asst. prof. biol.,
Austin State Teach., protozool.
McMullen, D. B., grad. asst. zool.,
Washington (St. Louis), zool.

Main, R. J., Rutgers, bot. Markle, M. S., prof. biol., Earlham

(Ind.), zool. Marsland, D. A., instr. biol., N. Y. Univ., protozool.
Miller, Helen M., Washington (St.

Louis), phys.

Miller, R. M., Lafayette, zool.

Morris, Helen S., Hunter, proto. Morton, H. S., Dalhousie (Can.),

Nalin, Laura J., asst. zool., Missouri, zool.

Dawley, Charlotte, asst. zool., Wash- Nelsen, O. E., instr. zool., Pittsburgh,

perorest, D. M., instr. biol., Union, phys.

Diller, W. F., instr. biol., Franklin and Marshall, protozool.

Dowling. A S. grad.

herst, protozool. Parpart, Mrs. E. R., grad. stud. Smith, emb.

Parker, R. C., asst. biol., Yale, zool. nati. Br. 334.

Wierda, J. L., inst. anat., Cornell, Br.

312.

Duryee, W. R., Yale, zool.

Duryee, W. R., Yale, zool.

Parsons, Elizabeth, Oberlin, zool.

Payne, Nellie M., Nat. Res. fellow, enic lab., Washington, D. C., phys. Perrine, Ruth R., Oberlin, zool. Peterson, Daggmar H., res. zool., N. Gray, G. M., curator. J. Agri. Exp. Sta., bot. Veeder, J. J., captair

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. Reinhard, 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., Dalhousie, zool.

Rogers, Edith, Goucher, zool. Rossmeisl, Elsie C., Smith, zool. Rowell, L. S., instr. zool., Vermont,

STUDENTS-Cont.

Schwind, J. L., asst. biol., Yale, zool.

Sears, Mary, Radcliffe, zool. Seton, H., Columbia, protozool. Severinghaus, A. E., assist. zool., Columbia, protozool.

Shattuck, G. E., Wesleyan, zool. Shields, M. L., grad. instr. biol., Phillips Academy, zool.

Showers, Edith, Smith, protozool. Sloane, Eleanor, Wilson, zool. Smith, G. H., instr. bot., Univ. Illinois, bot.

St. John, J. H., instr. parasitology, Army Med. Sch., protozool.

Taussig, J., Harvard, bot.

TeWinkel, Lois E., assist. zool., Bar-

nard, protozool.

Thompson, M. Helen, Knox, zool. Turnbull, Virginia E., teacher, Dor-chester H. S., bot. Underwood, Katharine, A. B. Vassar,

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

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

Vordemberge, Anna M., Goucher, hot.

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., Wisconsin, zool.

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

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

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

ADMINISTRATION

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

Chambernin, Thelma I., 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., Columbia, Director.

Wolff, W. A., grad. stud. chem., Pennsylvania, 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).

Heinly, Helen M., (at Fisheries Lab.
with Dr. N. A. Cobb), junior nematologist, U. S. Dept. Agric., room 123-1.
Hoffses, G. R., supt. U. S. Fisheries Station, Woods Hole, room 117.
Lepkovsky, S., res. worker, Dept. of Zool., Wisconsin, room 123.

SUPPLY DEPARTMENT

Cray, 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.
Davis, W. A., collector.
Godrich, J., deckhand.

Godrich, J., deckhand. Healy, D. C., collector.

Hilton, A. M., collector. Hobbs, K. L., collector. Jackman, W. L., collector. Lawrence, L. T., collector.

Lewis, E. M., engineer. Lillie, W., deckhand. Lowney, L., substitute engineer.

McInnis, J., collector.
Pearse, R. L., collector.
Robinson, W., ships carpenter.
Tressler, W. L., collector.
Wamsley, F. W., collector.
Whitelaw, R. N. S., collector.

BUILDING AND GROUNDS

Hilton, H. A., supt. buildings and

Larkin, T., 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

Christie, J. R., assoc. nematologist, U. S. Dept. of Agri., room 123. Cobb, N. A., nematologist, Dept. of

Agriculture, room 123. Conger, P. S., diatomist, asst. to Dr.
Albert Mann, Carnegie Institution,
Washington, D. C., room 123.
Connolly, C. J., instr. comp. psy.,
Catholic Univ., Washington, D. C.,

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.

prayton, 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. Fish, C. J., assoc. acquatic biol. U. S. Bur. Fisheries and the state of the state o

Bur. Fisheries, room 115. Fish, Mrs. Marie P., field assist. at large, U. S. Bur. Fisheries, room 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., Tuiane, room 123.

lane, room 123.

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

MacCallum, G. A., parasitologist, Baltimore, Bureau of Fisheries, Woods Hole, room 144.

Perkins, E. B., Harvard, room 123. Schroeder, W. C., field assist. at large, U. S. Bur. Fisheries, room

Linton, E., parasitologist, Dept. of Seiwell, H. R., assist. in zool., asst. Zool., Pennsylvania, room 146. to Dr. P. S. Galtsoff, U.S. B. F., room 123.

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.,

EXHIBIT

Scientific Instruments

July 19th to 30th

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Bausch & Lomb Optical Co.

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Rochester, N. Y.

FIRE ALARM KEY

SPECIAL SIGNALS

Daily Test Signal at 12 o'clock noon and 4:30 P. M.

General Alarm, followed by a box number. Forest Fire. This may be followed by a box number. Chimney or other Small Fire reported over telephone.

No School signal at 7:45 A. M.

Aid requested by "out of town" call.

All persons are warned to comply with the new "right of way" law for fire apparatus and not park within 600 feet of any fire, and also to "pull over" and permit apparatus to pass.

If you do not know how to operate a fire alarm box, ask any fireman and he will be glad to show you. Visitors are welcome at any fire station during the day.

Box	Location	\mathbf{Box}	Location				
14	Phinney's Boat Shop	341	Hilton's, Glendon Rd., W. H.				
15	Tower House	342	Nobska Pt. Section, W. Hole				
16	Terrace Gables Hotel	343	Fenno's Farm House, Quissett				
17	Vineyard Sound Hotel	345	Marshall's House, Quissett				
18	Maravista District	346	Quissett Four Corners				
19	Davisville District	347	School House, W. Hole				
23	Cor. Morse R. & Palmer Av.	343	Carlton Estate, Nobska				
232	Surf Drive	349	Gansett Section				
234	Almshouse	35	West & Millfield Sts., W. H.				
235	Queens' Buyway	36	U. S. Buoy Yard, W. Hole				
236	Railroad Station	37	Steamboat Wharf, W. Hole				
237	Jones Road & Gifford St.	38	Prospect St., & Buz. Bay Ave.				
238	Clinton Ave. & King St.	39	Penzance Point Section				
24	Falmouth National Bank		East Falmouth Post Office				
			Sandwich & Brick Kiln Rds.				
25	Wood Lumber Co.		East Falmouth, Fuller's Cor.				
26	Falmouth Grade Sch. Main St	. 42	Menauhant District				
27	Cor. Main and Walker Sts.		Waquoit District				
28	High School, Main & Srore St		Fresh Pond District				
29	Cor. Clinton & Scranton Aves	. 45	West Falmouth District				
32	Hose No. 5 Station, W. Hole		North Falmouth District				
324	Gunning Point District		Megansett				
325	Sippewisset Hotel District						
326	Quissett Harbor House						
34	Quissett & Buz. Bay Aves.	492	Ashumet District				

NEW BEDFORD, MARTHAS VINE-YARD & NANTUCKET STEAM-BOAT LINE

Steamers Operated on Eastern Standard Time

Summer Schedule

Jui	HHICL	Schean	10	
Correct	ed to	July 4,	1926	
	Week	Days		
Leave	A.M.	A.M.	P.M.	P.M.
N. Bedford	7.10	8.45	1.30	4.30
Woods Hole	8.40	10.15	2.50	6.00
Oak Bluffs	9.40	11.00	3.40	-7.10
Due V.Haver	1	11,50		6.45
Due Ed'town				8.00
Due Nantkt	12.15		6.15	
	Sun	days		
		-	A.M.	P.M.
Leave New I	Bedfor	d.	7.45	-5.30
Leave Wood			9.05	6.45
Leave Oak I			9.55	7.30

ACCUACY CONTRACTOR					
Due Nantuck		12.15	10.00		
Leave	Week A.M	Days A.M.	P.M.		1
Nantucket,		6.00		12.30	
Edgartown	4.00				
Oak Bluffs	4.40	8.15	11.05	3.00	
V. Haven,	5.10		11.55		
Woods Hole	5.50	0 1 4 0	12.40	3.45	
Due N. Bed.	7.35	10.50	2.20	5.25	i
			i		
			P.M.	P.M.	

Leave Nantucket,

Leave Oak Bluffs, Leave Woods Hole,

Due New Bedford,

12.00

2.25

3.25

5.00

W. A. SMITH, General Agent.

WHAT'S WHAT In Wood's Hole

STANDARD TIME Telegraph Office Hours

Week Days ... 6,30 a.m. to 9 p.m. Sundays 8 a.m. to 11 a.m. 3 p.m. to 7 p.m.

STANDARD TIME Post Office Hours 8 25 a m.

Maila Duo

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Office Hours...6 a.m. to 6.50 p.m. No Mails on Sunday

DAYLIGHT SAVING TIME Library Hours

Wednesdays and Saturdays 3 p.m. to 5 p.m. 7 p.m. to 9 p.m.

TRAIN SCHEDULE

 $\frac{1.45}{4.00}$

4.45

61.0

DAYLIGHT SAVING TIME

Boston to Falmouth-Week Days.

	A.M.s	A.M.	A.M.	P.M.s	P.M.	P.M.†	P.M.†	P.M.	
Boston.		7.05	8.30	1.03	1.06	3.03	4.03	4.30	8.30
		7.45	9.06		1.42		4.38	5.06	9.12
Middleboro,		8.10	9.29		2.08	3.55		5.29	9.42
Wareham,		8.32	9.53		2.29		5.19	5.50	10.04
Buzzards Bay		8.45	10.10	2.30	2.44	4.25	5.30		10.22
Mon. Beach.	7.05	8.50	10.15	2.35	2.51	4.29	5.34	6.10	10.27
Pocasset,	7.10	8.55	10.20	2.39	2.56	4.32	5.37	6.15	10.32
Cataumet,	7.15	9.00	10.26	2.44	3.01	4.37	5.42	6.20	10.37
N. Falmouth.		9.03	10.31	2.47	3.05	4.40	5.45		10.41
W. Falmouth	7.29	9.10	10.40	2.55	3.13	4.48	5.53	6.32	10.48
Falmouth.		9.18	10.53	3.03	3.22	4.56	6.01	6.41	10.57
Woods Hole.		9.25	11.00	3.10	3.30	5.03	6.08	6.50	11.05

Falmouth to Boston-Week Days.

A.M.	A.M.†	$A.M.\dagger$	A.M.	P.M.	P.M.
6.30	7.15	8.15	10.25	2.00	5.05
6.37	7.22	8.22	10.33	2.08	5.13
6.44	7.29	8.29	10.40	2.15	5.40
6.51	7.36	8.36	10.47	2.22	5.27
6.54	7.39	8.39 -	10.51	2.26	5.31
6.58	7.43	8.43	10.55	2.30	5.37
7.02	7.47	8.47	11.00	2.33	5.40
7.08	7.52	8.52	11.05	2.40	5.45
7.22	8.04	9.04	11.18	3.04	5.57
7.54			11.41	3.30	6.15
8.22			12.05	4.00	6.43
9.00	9.20	10.18	12.40	4.35	7.17
	6.30 6.37 6.44 6.51 6.54 6.58 7.02 7.08 7.22 7.54 8.22	6.30 7.15 6.37 7.22 6.44 7.29 6.51 7.36 6.54 7.39 6.58 7.43 7.02 7.47 7.08 7.52 7.22 8.04 7.54	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

SUNDAY TRAINS

		JUNDA	1 11/1	1140			
		To Boston Read Down				From B Read	
	A.M.	P.M.	P.M.	P.M.	P.M.*		
Woods Hole,	9.10	4.35	5.05	6.00	9.00	9.25	11.00
Falmouth,	9.18	4.42	5.13	6.07	9.08	9.18	10.53
West Falmouth,	9.25		5.20	6.14	9.15	9.10	10.40
North Falmouth,	9.32		5.27	6.14	9.22	9.03	10.31
Cataumet,	9.36		5.31	6.24	9.26	9.00	10.26
Pocasset,	9.40		5.37	6.28	9.30	8.55	10.20
Monument Beach,	9.45		5.40	6.32	9.34	8.50	10.15
Buzzards Bay,	9.50		5.45	6.37	9.40	8.45	10.10
Wareham,			5.57	6.51	9.55	8.32	9.53
Middleboro,			6.15	7.18	10.15	8.10	9.29
Brockton,			6.743	7.43	10.45	7.45	9.06
Boston,		6.37	7.17	8.17	11.19	7.05	8.30
						A.M.	A.M.

Cape Codder-June 27 to Sept. 12 inclusive.

Will not run July 5 or September 6.

s Saturdays only.

BUSS SCHEDULE

WOODS HOLE & FALMOUTH HEIGHTS-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 under 12 years, half fare. Children, Woods Hole and Falmouth, Round Trip, 25c. 10 Trip Tickets between Woods Hole and Falmouth \$2.00 (Adults only).

Daylight Saving Time

		Α.	M.				F	. M.		
Leave Woods Hole,										10.15
Falmouth, Due	8.30 10	0.20	11.45	2.05	3.30	5.20	*7.00	*8.00	*9.45	*10.30
Fal. Heights, Leave	8.40	0.30	11.55	2.15	3.40	5.30				
Fal. Heights,	8.50 1									
Falmouth, Due	9.15 1	0.45	12.15	2.40	4.15	5.40	7.15	9.00	9.45	†11.00
Woods Hole,	9.30 1	1.05	12.35	3.00	4.35	6.00	7.35	9.25	10.10	11.30

* Due † About two minutes after show.

Sundays Only-Daylight Saving Time

		A. M.			P. M.	
Leave Woods Hole,	8.40	10.10	11.30	3.00	6.00	7.50
Arrive Fal. Heights,	9.05	10.35	12.15	3.30	6.30	8.40
Leave Fal. Heights,	9.15	10.40	12.20	3.35	6.35	8.45
Falmouth,	9.25	10.55	12.30	3.45	6.45	8.55
Due Woods Hole,	9.45	11.15	12.50	4.05	7.05	9.10

Bus makes connections for church service morning and evening. 10 Trip tickets between W. Hole and Fal. \$2.00 (Adults only). NOTICE-Service between Falmouth Heights and Falmouth, evenings, is as follows: 10 passenger Bus connecting with 7.00 and

9.00 p.m. moving pictures.

Leave Falmouth Heights, Arrive Falmouth, Leave Falmouth, Arrive Falmouth Heights.	,	6.45 7.00 7.05 7.25	7.30 7.45 8.00 8.15	8.30 8.45 9.00 9.15	9.30 9.45 11.00 11.15
		1.20	0.10	0.10	11.10

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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 be-.low:

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 mana-

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 after- gave a paper on "The Respiranoon. A bottle of Canada Dry tory Proteins of the Blood" will be broken across the bow. It has not yet been decided July 6. The varied behavior whether it shall bear the name and capacities of hemoglobia in "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 match.

of the International Horseshoe- Chromosome manager of the Amoeba Distrib- the Problems They Present.' uting Corporation of America, vertebrates, commuting week printed below. ends and pitching horseshoes, he has been appointed official novel relationship between the chaperon of the Dalhousie contingent.

sine" has been accepted by the occurrence at one spermatocyte community. Any one wishing division of a monocentric mitoto 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 fiffies the male possesses turn the key. Dr. Ellsworth is two more chromosomes than the buying his gasoline in single 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 to illustrate this interesting rethose 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 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, theauditorium, Tuesday evening, vertebrate blood and of hemocvanin 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 only man to play a 7-0 tennis for Experimental Evolution at Cold Spring Harbor, on Tuesday evening, July 13, delivered a lec-Dr. J. A. Dawson, president ture on "Aberrant Features of Behavior and pitching Association and general Genetic Behavior in Sciara and Two abstracts of this page have has been having the "goll darn- been received by The Biolog and dest" time this summer. Be-since, to a certain extent, they sides taking charge of the in-supplement each other, both are

(1) The lecturer described a the fungus-gnat Sciara, and several peculiarities in chromosome Dr. Read Ellsworth's "limou-behavior, including the regular female, which are confined to the

> Both microscopic study and breeding experiments indicate

that in the males an unusual re-|ceives it only from the mother. lation exists between the mater-nal and paternal chromosomes. While the cytological study of the female has not been comto compare with the condition in tion are expected to be encountferences with other forms, male. Many lantern slides were shown

(2) The cytological phenomena of three species of the rather primitive fly Sciara were inveslimited." togonial division the ten chromgroups with a monopolar spindle. in four plus both of the sex-limited chromosomes, there undergoes an equatorial division and a second bud with five chromosomes is given off (two sex-limited 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 speras to suggest that a male re-traction and relaxation.

This opens up new lines of work pleted, peculiarities of distributhe females and to explain dif-ered that supplement those of

C, B, B,

Muscular Activity

On July 21, in the fifth of the series of evening lectures, Dr. Wallace O. Fenn, professor of tigated. The chromosome groups physiology at the University of and the characteristics of the re- Rochester, treated the members cells continue their growth and duction process were found to of the laboratory to an interestestablish new relations during be essentially the same in all ing discussion of certain phases life. We should not then think three species and to differ very of the energetics of muscular of the nervous system even in 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 was devoted to an account of the therefore referred to as "sex- work carried out by him in this After the last sperma- laboratory. Using the delicate methods for the measurement of osomes apparently do not con- heat devised by Hill, Dr. Fenn jugate, but segregate into two was able to show that the muscle, following stimulation, One group of four is cast off in 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 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 inmatozoon, one coming from each genious "tricks," as Dr. Fenn final spermatogonium, all sperms aptly called them, by means of bein galike with seven chromo- which the load on a muscle somes. The mode of inheritance could be changed at any time of a mutant character was such during the actual process of con-

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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 Bob Climenko held last Tuesday. lecture hall. The Rev. A. M. Keefe who spoke on "Sargassum, with Notes on the Sargassum Sea," and completely destroyed any lurking romantic notions THE TENNIS TOURNAMENT and completely destroyed 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, This feast was prepared in lab, but by a unanimous vote, it was 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. three. After the edibles had disappeared, we sang all the songs we DANCE AT THE knew in all the keys available and in as mnay parts as could be wished until someone suggested getting back in time for the morning lecture, and the army demobilized.

This week's seminar is addressed 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 hear nothing but the most lavish 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 Ebb Tide, Woods Hole Ph, on fertilization and cell lineage. Protoplasm, King Crab, Puffer, Dr. E. E. Just gave a special lecture Friday on fertilization.

week in the lab. Dr. Rogers in the interests of science and nobody really cares.

of Seymour, Ct., visited Cecile Woods Hole Mixer.

Conklin during the week end. Lida Brannon entertained a boy friend.

One thing that must not be forgotten is the peach treat that 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 finals, 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

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 praise for the untiring efforts of mittee of which Mrs. McCutcheon was chairman.

"THE COLLECTING NET"

(Continued from page 1)

Woods Howler, Woods Holler, Embee-yeller, Amylopsin (A This has been a very busy Digest of Laboratory News), week in the lab. Dr. Rogers W. Hole News, Embielle, Obdidn't seem to mind the heat and thought we ought to work even Group, Time Killer, Demonif we did have headaches. if we did have headaches. Most stration, Lab Lines, Cattellog, of the students are repeating ex- Confucian, Aristotle's Lantern, periments that were failures Squirt (Issued Weekly), Town during his reign, but that is all Pump, Sea Horse, Amebocyte (It Circulates), Fog Horn, MarBioLab News, Limulus, Catherine Hinchey entertained Volvox, Agassiz News, M. B. L. during the week Miss Lydia News, Bug Hunters Snews, M. Fletcher of Providence, R. I. B. Lism, Lobster Claw, Aquari-Dr. Lindsey and Mr. Matteson um, Larboard Log, Biologue,

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THE COLLECTING NET

VOL. 1. NO. 3

WOODS HOLE, MASS., THURSDAY, AUGUST 5

TEN CENTS

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 tellrine ing, 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 PROFESSOR CALKINS 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 situation in the Orient at the present moment. He asserted that much of the "yellow peril" propaganda that is being disseminated 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 Vincyard Sound:

> Aug. 6....3:38 A.M. 7....4:278....5:10 9.....5:5866 10....6:38 11....7:18 12....7:59 66 " 13.....8:46

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. Evening 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 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: Instruction ends.

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. is necessary to know ahead of on the Cedric. For the next time the number to go on the year, he will hold the office of Cayadetta. Director of the American Unimany 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.

Dr. Mary S. MacDougall and Tuesday, August 10th, at 12 Dr. Woolford B. Baker.

BUREAU OF FISHERIES

An Aquarium Curiosity

The usual work on fishes contains very little about the interesting fish, called the sea-

Typical sea-horses (Hippocampus) bear a very close re- zoan attacked by a sponge, which semblance to the knight of the was throttled by a sertularia, chessboard rather than to the this poor creature being abpopular idea of its likeness to a sorbed by a tapeworm, which horse's head. In fact by attaching a coiled worm to the base of a chessboard knight there is hungry clutches of a starfish—

Telation between the two fields. Genetics and the Physiology of Development.

Genetics has made clear the of a chessboard knight there is hungry clutches of a starfish—Genetics has made clear the obtained an inanimate imitation and that starfish inhabits the necessity of using homogeneous, of a sea-horse. The name Hip-confines of an aquarium in the and even homozygous material, pocampus 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.

is scheduled an M. B. L. investigators' 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

Hot coffee will be served at versity at Paris. At the same the picnic, but all investigators time he intends to do some re- will be asked to bring their own search abroad and to visit as 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 Bio-During Dr. Calkins' absence logical Laboratory will be held this summer the protozoology in the auditorium of the laboracourse will be in the hands of tory at Woods Hole, Mass., on tory at Woods Hole, Mass., on o'clock noon for the election of officers and trustees and the transaction of such business as may come before the meeting.

PROIFOELHELMATHCOIDA

How does this tongue twisting scientific terminology suit our biological intuitions? Confidentially it's nothing but a proto-Greek hippos, horse, and kampe, there you have it, the story of worm or caterpillar. However the life history of the inverte-

(Continued on Page 6)

The Uncatena was well-filled M. B. L. INVESTIGATORS with passengers and the forward deck held its capacity of automobiles when it started out On Monday, August 16, there scheduled an M. B. L. investiseries 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 captain of th boat ordered the anchor to be lowered.

Coast Guard To Rescue

About this time the Coast Guard boat, 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 arrived in Woods Hole Harbor with its charge well in tow, another Coast Guard boat came up and between the two of them, they eased it into dock, accompanied by stern commands of the captain of the Uncatena and the tinkling of bells on the rescue boats.

Two women were the first to descend the gangplank, the

(Continued on Page 8)

Sedgwick Memorial Lecture Delivered by Dr. Morgan

In delivering the fifth lecture of the series founded in honor of Professor Sedgewick, Professor T. H. Morgan, of Columbia University, dealt with the relation between the two fields.

in physiological work and has developed methods for securing such materials. Often genetic

(Continued on Page 5)

Bureau of Fisheries

(Continued from Page 1)

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

ing from its power to curl 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

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 seathe 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

was approximately one-half its have already been drawn.

The protozoa are just as nerveal about from fifty to sixty pounds.

It was ogists who frequented the old truly the end of a perfect day.

Hole when the Cayadetta appeared on the horizon. It was ogists who frequented the old truly the end of a perfect day.

Hole when the Cayadetta appeared on the horizon. It was ogists who frequented the old truly the end of a perfect day.

Harpwell Laboratory of bygone Friday, July 23, the protozo-idays. was approximately one-half its have already been drawn.

the middle.

Recent Arrivals

AOZOTORP

Gary N. Calkins, the discussion layer surrounding the of the derived organization of vacuoles."

abdomen, the fish having no true attracted by the darker blue of the protozoologist in question noon that comes along. Let this neck.

There is a curious modification transparent and opaque At any rate, the beasts are occature teas. tion of the finless tail, which de- red orange and green, it moves sionally given rather severe cen- Last week Dr. C. L. Liu of the prives the fish of locomotion, toward transparent or opaque sure at such times. The study protozoology class spent several however it gives the tail a new blue. The young under restrict- of living forms "cute forms" has days with friends in Maine. He function— prehension —result- ed 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.

ures of sticking, stopping, stain- On Saturday, Ju ing and studying.

plant in a double coil. One eye lyn Museum, N. Y. Bureau of been rather sparse, due to activit before the formal closing of the 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 | The identification of species fish can move its eyes independently of each other, and in different directions. Its actions ferent directions of a near-sighted person.

Woods Hole Reminiscences a merry crowd of about 40 peofin and most of the class is now occurrently of a near-sighted person.

When it releases itself from the laboratory is completed and most of the class is now occurrently of the class is now 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 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 en-Fisheries, and about the lives of joyable part of the program. cea, such as copepods, sand fleas. men connected with it, as Spen- Dinner was in order immediately shrimps and the young of higher forms. In aquaria a substitute bas here deviated as substitute. fact that he became affiliated or mosquito. The fish will with the Bureau of Fisheries class marvelled at the enormous SOUTH HARPWELL slowly approach its food, peer-four years earlier than the capacity of some of the ciliates. ing at it and suddenly the animal disappears as though sucked in The feed were served in the things were served and demonstrate were served in the children were served and demonstrate were served in the children were served and demonstrate were served in the children were served and demonstrate were served as the server were served and demonstrate were served as the server were ser in. The food must be at rest for everyone spent an enjoyable demonstrate a quite similar capacity, 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 In the lectures by Professor duced to the thinnest possible visible 20 miles at sea, "gastric Also, the fact was protožoa has given place to the pointed out in the morning, in been burning on a nearby hill 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, Che! living things, as exemplified by the slightest irritation will bring hostelry's kitchen started the oniidae, 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. flames, firemen were undecided. pool. This is the fourth year different from those already These on the picnic know exactly that it has been on exhibition, found and drawn still continues, how Didinium feels at such a practically lost all their possess-It was captured in a fishermen
It is both a disappointment and time, for they felt just that way. lons. net in Buzzards Bay directly a source of some satisfaction to At least, they sat around very
The same of the same beyond Penzance Point. Each go over a drop of pond-water, quietly for a considerable time, eminence, overlooking Casco winter it is displayed in the City and when the various forms no one venturing to exercise, bay, formerly was the Lawson Aquarium of Boston and in the come into the field of the micro-certainly not in the water, house and for 50 years was one summer 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 Woods Hole to be placed in the large number of them, even of swimming and boating and was owned by Eli Perry, Portthough they are not available as games, all scrambled to get land. When first caught this turtle additional species, because they ready for the trip back to Woods Hole when the Cayadetta ap- well known to some of our biol-

bony plates, the highest portion neutral red and iodine solution, ology 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, At the present seem 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 relies three feet and the width at beasts, for they claim that every testify who were there. It was semblance of parts, the only its widest portion is two feet, time a horse-shoe lands at the noted that several of the male. homology that exists is between while the weight is over one peg outside the building, the pro-members of the class were abtozoa 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 stricted portion of the sea-horse been done on this turtle but it ing things, namely, irritibility, talk of penalizing these by havdees not correspond with the is known that after entering and demonstrates it by "jump-ing them stand treat for the neck of the horse but with the water it will swim out to sea ing" at least "ten feet." Maybe whole class the first warm after-

On Saturday, July 31st, Dr. G. N. Calkins gave the last of a But on the whole, the labora-series of thirty lectures. The Borodin, N. Collector, Brook- tory work for the past week has lecture work is over one week

> The identification of species ing, 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 cake 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 shortly before the fire in the hotel was discovered but whether sparks from that or from the

The hotel which stood on an

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 by most of the readers of the pathy of the general public is paper. However, their better solicited. judgment prevailed, and hence its present name.

and determined entrance of bayoneting a living soul. Hartline, Some Photo-biologic through the doors of the club. Court action will be taken.

He turned out to be more up. popular than one would suppose. 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 first, last, and only issue of the Picnic. spare on his last trip to North Question Mark, it was rumored Truro. Last year's shows that in one case he had thirty seconds less to spare.

ture because, as her friend put it, she was afflicted with ostra- has been the case. But the matcodermitus.

The third floor "banana group" is performing "Morganatic" 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.

and Bailey have engaged for the liar effect on the physiology

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

A sad accident occurred in column be christened "The Botany Lab the other day. Jo-Meigs, Some Aspects of the Re-Drosophila." The editorial scaff seph Copeland severely sprained lation between Nutrition and carefully considered this pre- 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-little self, just as many algae as preciated better by them than had one of the teams. The sym-

It appears that a representative of the Society for the Pre-A certain prominent botanist ventino of Cruelty to Animals Nerve. demonstrated his enthusiasm attended Dr. Chambers' lecture for dancing at the Club House and demonstration. He was Lillie, Protoplasmic Conduction.

Although he almost went down the Sedgwick Memorial Lecture on his knees and presented a on the evening of July 27 appropathetic picture of pensiveness priately celebrated the event tures in physiology follows: and persuasiveness, two charm- with his family by dispensing Monday, Aug. 2, Dr. F. ing young ladies absolutely re- with bicycles and using in their place his four-chromosome car as a means of conveyance to the Analysis of the Various Phases.

OUR BACIA

Extra! Fenn Says "No Fair"

It will be recalled that in the record that, in order to come to a de- Mitchell. cision in the weighty problem-Oxidation Potentials on July 24 the Nervous System. Dr. Patten's lecture has born Drs. Fenn and Amberson would Monday, Aug. 9, Dr. Knowlimmediate fruit. One of our probably find it necessary to tno, Conclusion of the Above have recourse to the flippant and the Course. process of coin-tossing. Such ter has been decided, not by the hand of Fate alone, according "banana to your correspondent's interview 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-Ringling Bros. and Barnum est, this episode has had a pecuwinter at outlandish salaries the class. Several of its members

formation on copper-penny embryos. The lecture-program for last week was as follows:

Monday, July 26. Dr. B. Health.

Tuesday, July 27, Dr. E. M. Landis, Physiology of Capil-

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

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

Friday, July 30, Dr. Frank

The biologist who delivered Knowlton took over the laboratory work from Dr. Amberson.

The list of the remaining lec-

Monday, Aug. 2, Dr. F. P. Knowlton, The Mechanism of Nervous Conduction, with an Tuesday, Aug. 3, Dr. Knowlton, Conclusion of the Above.

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

Thursday, Aug. 5, Physiology

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

Saturday, Aug. 7, Dr. Knowl-Who Should Give the Lecture on ton, Comparative Physiology of

Monday, Aug. 9, Dr. Knowl-

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SCIENTIFIC WORKERS AND THE MESS

All members of the M. B. L. mess, and yet one of the elements which makes this possible seems open to criticism. We refer to the practice of charging laboratory for assigning "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 who with his family visited the room. laboratory last week as a guest 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 as such have for years contributed to our welfare. should be welcomed to the lab-emb., Br. 121. oratory as one of our group, and the present discrimination

The mess is taxed to capacity oratory.

and with its present facilities ! 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 ciate that this necessity for the evening lecture of July On Friday evening, July 30, limitation presents a very difficult problem, but is there not room for improvement. If the question could be presented before the members of the corpor- of biology at Dartmouth college, Membranes as a Model for Cell ation at their next meeting we and well known through his Membranes." Dr. Michaelis debelieve that they would approve numerous publications which scribed the properties of a series of some modification of the present arrangement.

Many of us do not realize that elen H. Cattell, L. B. Clark, Anna Dr. Merkel Jacobs, professor of car excellence. A large and ap- or pores through the membrane, C. Dunlap, A. Ranger Tyler, Assa- physiology at the University of preciative audience heard Prof. permeability decreasing as the Helen H. Cattell, L. B. Clark, Anna Dr. Merkel Jacobs, professor of Pennsylvania, has been conducting a course in calculus for the F. I. Hollander......Our Bacia His lectures, whose contents are fessil animals, called Ostraco- dion membranes usually used. A. S. Eichorn... Bureau of Fisheries problems of biology, and a mas- of preservation. These fossils, ions can readily be studied by Eleanor Sloane . Proifoelhelmathcoida terpiece in clearness and sim- in Professor Patten's words, observations upon electrical po-Helen Jennings....... Town Topics plicity, are given on Tuesday hold the key to his scientific tential differences arising across land Friday afternoons at quar-problem, the origin of the verte-the membrane when it separates Hall. Those of us attending, Spitzbergen. greatly appreciate the time and The first us how to wield a tool which is Ostracoderms "on the great instance theory demands that, if rejoice at the very moderate becoming increasingly more esharge made for food at the sential in all fields of biological ed as the connecting link be-pletely suppressed, an E. M. F. investigation.

> us Room 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 case of a Harvard physiologist work is to be carried on in this New copy, advertisements, etc., however, may be left of certain members. The op- 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 intert and appreciated by all.

(2) Making a special point of purchasing supplies from or in other ways doing business with, the

They Chicago (Keio Univ., Tokyo),

against them, which in a num-mouth, England, who were in priceless specimens led Prober of cases has been a source Woods Hole in June, have made fessor Pattern to conclude that of ill feeling, should be abol- a flying visit to California and the "missing link" in animal tropositive. On the acid side of are now back with us at the lab- evolution has at last been found.

are based on embryological and grees of permeability. These anatomical studies of rare differences arise from varia-"hunt." The hunt was inspired thoroughly dried collodion ter of five in the Old Lecture brates; hence the expedition to solutions of the same electrolyte

trouble that he is taking to teach dealt with the position of the ferent electrolytes. In the first We are duly grateful to the boratory for assigning us 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 jaws with lateral movement tation of anions and cations rather than the forward-back- across the membrane producing ages, the eyes and the minute collodion membranes closely ap-

> Spitzbergen. Numerous beautiful photographs and the lecturer's descriptions made this the large part of the lecture.
> Despite handicaps on one sort or another, the "hunt" was a success.

Returning from Spitzbergen, Dr. Patten visited the State Museum at Stockholm where many Spitzbergen Ostracoderms are Esaki, Shiro, asst. prof. zool., nerve, and other delicate strucfures show up with such clearness that they seem more like models than fossils millions of Dr. and Mrs. Pantin of Ply- years old. The study of these E. E. J.

Dr. Michaelis Talks on His Spitzbergen Trip Semi-Permeable Membrane

beauty and marvellous technitions in the size of the channels

in different concentration, or The first part of the lecture equal concentrations of two diftween the Giant Sea Scorpions of 51 millivolts will be observed structure of the head, the paired produced by the definite orienward movement of all true ver- an electrical double layer. The tebrates, the oar-like append- E. M. F.'s measured across dried structure 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 membranes the movement of There now followed an ac- anions appears to be almost count of the Hunter's experi- completely suppressed; cations ences during his trip from New are able to move through the York to Oslo and thence to pores. Across such membranes

This differential effect upon the movement of anions and cations is correlated with the electrical charge upon the membrane. In most membranes, as firms that take advertising space in our paper. And when this is done, inform them that "I saw your advertisement in "The Collecting Net."

Spitzbergen Ostracoderms are in dried collodion, this charge is almost always negative. Through yertisement in "The Collecting Net."

Spitzbergen Ostracoderms are in dried collodion, this charge is almost always negative. Through yertisement in "The Collecting Net."

Spitzbergen Ostracoderms are in dried collodion, this charge is almost always negative. Through yertisement in "The Collecting Net." generosity, Professor Patten charged cations can move, negathese investigators come from We regret that the following had the opportunity to study charged cations can move, negacontributing laboratories, are name was accidentally omitted what are prehaps the most performer laboratory members or from the investigators' list in memers of the corporation; and the "Director for 1926."

feetly preserved fossils known to science: blood vessels, cranial charge is determined by the pH. charge is determined by the pH. On the alkaline side of the isoelectric point the charge is negative, and cations can penetrate; anions are retarded or stopped, and the E. M. F. observed in the "concentration effect" shows the more dilute solution to be clec-

(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 performances which had been gotten up 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.

For the next three years the plays 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 finished 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", designed by Mr. Vignoles was most artistic.

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 arranged by the Glasers to the tune of "Mr. Gallagher", in which Mr. Gray, Capt. Veeder, and Alfred Hilton appeared on the stage for the 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 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 plays has surpassed "The Medicine Show". It would be difficult to decide which of the three—Dr. McClung, Dr. Lyon, or Dr. Simpson, portraving Mississippi River characters traying Mississippi River characters, looked the most disreputable. Perhaps 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 behind the Lyon's Den.

The success of the plays has de-

pended as much upon the workers bepended as much upon the workers behind the scenes as upon the actors. A small army is required for directing, making scenery, costumes and curtains, arranging lights, handling advertising, ticket sale, programs, posters, and ushering. It is doubtful whether there is to be found anywhere a more willing or efficient group for such community enterprises than in Wood's Hole. Need we add that the third essential, an intelligent and appreciative audience intelligent and appreciative audience, can always be counted on in Wood's

THE TENNIS CLUB

The M. B. L. Tennis Club had its simple beginnings more than a quarter of a century ago when Oliver strong initiated play on 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 constructed with the liberal aid of Benjuries Chapter 1988.

jamin Strong.

As Oliver Strong gradually withdrew from active play it became evident that a more formal organization

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 Edie UptonBobbie 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 sentry.....Jack Fogg Captain McGregor P. H. Mitchell Sargeant MacDougal..... W. W. Cranford Lieutenant Hartley W. F. Hahnert Mrs. Clayton Lida Brannon Hindustan Servants P. W. Bowman, A. S. Eichorn

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

Scene: 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,

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.

Gravel period culminated in 1913, when the present Mess court was constructed with the liberal aid of Benjamin Strong.

As Oliver Strong gradually withdrew from active play it became evident that a more formal organization was needed. In 1917 a committee, composed of D. J. Edwards, E. R. Carried through by the exertions of composed of D. J. Edwards, E. R. Carried through by the exertions of cilitie ers at given by summer residents on Penjamin Strong.

The players and the cordial backing given by summer residents on Penjamin Ones and elsewhere in the neighbor hood. Three courts were built on land near the Breakwater Hotel purchased from the Fay Estate in 1922.

There Beach courts lie too low for good natural drainage, so that the strong in the players and the cordial backing given by summer residents on Penjamin Ones and elsewhere in the neighbor hood. Three courts were built on land near the Breakwater Hotel purchased from the Fay Estate in 1922.

There Beach courts lie too low for good natural drainage, so that the

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. The general expenses are met by club dues. In 1920, to meet the demand 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 dewise a plan for "getting rich quick". Rapid action followed and within a month the first M. B. L. production, modestly called "An Entertainment," was presented to a highly appreciative audience, and \$227 was received by the club. The necessity of raising more money and the enthusiastic demand for another play resulted in a second production in 1921 even more

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 built and used in 1922, but only half paid for. Fortunately an annual play had then become an annual play had then become a tradition and in 1923 over \$650 was realized. This was shared with the Tennis Club which proceeded to build the present tennis courts near the pathing beach. In subsequent years the club received part of the proceeds, and up to 1925, the sum of \$1,874.50 had been turned over for club uses. The porch was completely paid for and the remainder transferred 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 repairing and transporting the bathing 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 in sudgest of the collecting Net. be built, and the need is evident after the last two evening dances. nelp make this and later necessary improvements the Club will need additional financial support. This can best be given through patronage of the play to be presented this year, water promises to be a greater sucwnich promises to be a greater success than those of all preceding years.

excellent surface is usually too moist for fast play. The balls soon become discovered and heavy, so that the greatest problem at present before the Club is the improvement of these courts. Experiments are now planned to determine whether tile drainage will suffice to keep them dry, or wnether 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 competition in all events. Cups are presented to the winners in the singles matches, and in the mixed doubles the names of the winners are inscribed on the Strong Cup, a permanent 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

Tickets for the 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 ing of the executive committee sessions of that produces two sexes under ing of the executive committee groups having charge of certain penetrate, cations are retarded, and the more dilute solution is give quite a different result under the national Representation of the National Representation of the division's projects will also occur around this date. negatively charged.

consideration of the mechanisms of light-hours to which dioecious involved in the production of hemp was exposed, the development of pollen on normally pisteral factors may be involved. The hydration of the ions may be involved. erai factors may be involved. It till at plants and of ovules on account for the differences observed between a series of ions showed that the chromosome of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the same size, and may constitution had not altered but in the difference of the di of the same size, and may con-constitution had not altered but tritute to the retardation of the that the "sex" had been reversed movement of ions of one sign. by environmental agency. Sim-A more important factor is the ilar cases with frogs and toads membrane charge itself. Nega- have been found and tested with tively charged membranes be-like results. Especially interestcome 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 delayed at the larvel stage. 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 ble that some enzymes are dithe study of the size that Princess beans attain by growth, the genetic variations are reduce practically to zero by self-fertilization which is the normal method of propagation of this bean. Johannsen was thus able the roughly sigmoid curves that so show precisely what was the seem to hold for the data of 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 demonstration that three distinct but allelomorphic types of plant existed. The failure to self-fertilize could then be shown to be due to the slower rate of growth pler, more purely chemical, naof the pollen tubes where certain genetic constitutions were pres-

The complex data known for the increase of vigor upon crossing and the decline of that vigor rupon inbreeding have been reduced to relatively simple Mendelian terms, and the problem put in shape for more purely biology at Princeton university. physiological investigation, some arrived in New York on Satur-

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

The chromosomal mechanism der other conditions. For ex-Such observations lead to a ample, by regulating the number ing is the case of the fly Miastor, where lines that are genetically male reproduce as parthenogenetic females if development is

> 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 anthocyanin series of colors in stocks and sweet peas and in the melanin pigments of various insects. Such enzymes may play the deciding role at any stage in the development of an organism. But between such enzymes and the primary controllers of development, the genes, there is probably often a very long chain of reactions, though it is possirectly 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 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 individuals, of organs, of cells and probably of most cell-organs are of this highly complex nature. Conceivably, however, the growth of the gene is of a simture. Certainly the governing agency of the synthesis of the gene lies within the gene, which, in this special limited sense may be said to grow by autocatalsis.

C. B. B.

of which has been carried out. day, July 31, on the Aquitania.

On the other hand, the factors He will come down to Woods with which the physiologist Hole to attend the meeting of 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 illustrated in the study of such char-COUNCIL MEETING

The customary summer meetsearch Council, will be held in Woods Hole this year on August Biology and Agriculture and the

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(Continued from Page 1)

terrific expression.

last week that there are for the first foot underground. members of the class that they to evaporate our dampness and actually stayed away from mess in the Hallelujah chorus. and hash for fifteen minutes to After four days delving into stead of a dorsal incision.

the nereis pelagica and arenicola tell. to go to Kettle Cove. That is Anyone who finds his laborathe discomfiture of the inverte- cola. brates" (for reference see R. C. three solid up and down hill eral cover-glasses. miles; but it was not biologically never can be goats.

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 mouth. our tongues to catch the precious | Flow to draw salt water in the rain drops, only our object this lab:

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 remarkably successful; so that we were just about as damp as our were just about as damp as our brate course subjected to this were just about as damp as our own great-grandfather Limulus The invertebrates found out when we arrived. But the North Falmouth flats proved to be the "worms and worms, yea, and yet most thickly populated fields yet more worms" to cover the world visited; perfect hordes of scallops, fiddler crabs, clams, ma-The second fact that has been lampas, nassa obseleta, and bitstartling us is the discomfort- tium were encountered; and this 6.—When neighboring drawings and ing knowledge that Annelid time it wasn't a case of "If I anatomy may be just as complicated only find something" but cated to handle as a one man "If I could only identify all the row-boat out in the Hole. But things I've found." Coming the circulatory system of areni- back we were so proud of ourcola proved so interesting to two selves that the sun burst forth

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 member of the class almost died spirals of Busycon. Simple? of shock when she discovered Just wait until we have waded that she had made a ventral in-through his nervous system on Monday and then we may have But we did take time off from an entirely different story to

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 areni-

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 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 caused by these individuals of a at Dr. Cole, "Only a mile or so." weighty reputation that they Then, that "so" turned out to be have stampeded and broken sev-

Perhaps you have heard a unfruitful, because we succeeded donkey bray? No doubt you in convincing one biologist that know the sound of a fog horn? Shropshire sheep could not and Surely you are familiar with the Woods Hole fire signal. But

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

were setting out in a cool, clam- Guy Horseley took Lida Branmy, 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.

time was to be as microscopic as 1.—Choose as flat a dish as possible.

possible and stop as few of the 2.—Use the tap with the finest nozzle.

5.—Attempt to catch the falling dish Chicago. with the right hand and show some effort to arrest streaming nozzle with left hand. (A to master this change of hands.)

dresses have been sufficiently spotted with salt water, retire quickly and quietly to your place.

Dr. and Mrs. Julius Bronfonto give the cock a vigorous course work in bacteriology this and complete half turn.) summer at the University of

The house of Dr. and Mrs. little practice will be required 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 Coming 7.—Repeat exercise twice each day, been heard from in China.

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THE SCIENTIFIC MONTHLY 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.

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; Professor Lucien Gallois; Variation of the Sun's Heat.

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CHILDREN'S SCHOOL OF SCIENCE

Ding! Dong! Came the famil-iar sound from the little old Woods Hole, general science, out.

It was the summer of 1912 ment. 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 with work in an educational way. The school started with . 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 been teaching at Sweetbriar College, and for the last several nell Medical part year. years it has been approximately The character of the school has changed too, and is now called "The Children's School of Science," a school for many years in Turkey as presithe study of natural history un-Hole Summer School Associa- the Greek Stoics. An executive committee with chairmens of the commitassociation. Parents are re- week. quested to join the association and membership is also open to guarantee fund. All children of his success is due to the fact, ible. At the end of the term to do. there is always a "Parents' Day" when the work of each class will be explained by the complete schedule extends over 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 University School, New York City. The courses taught are nature study, plant life of Woods Hole, birds and their nests, animals of

schoolhouse. The children of Woods Hole blinked. What could it mean? School in the summer? They hastened to find the children may see and study that the children may see and study that the children may see and study that the children may see and study the 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 bells will peal forth for Dr. Charles Parmenter. All we can fairly large enrollment. say is, we wonder how he es-

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 spending the summer in Woods many years in Turkey as president of Constantinople College is der the direction of the Woods engaged in preparing a book on

Dr. Hallowell Davis, instructtees 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 fuesday to Friday of last

Professor Michaelis was asked anyone interested in the school. by one of our Woods Hole ladies The latter is supported by voluntary subscriptions and by a liant experiments. The secret over seven years of age are elig- he said, that he had nothing else

Dr. B. M. Duggar left last week for Ithaca, where he will pupils and illustrated by the col- remain until after the Internalections, apparatus, selected tional Congress of Plant Sciences leaves from note books, etc. A which is being held at Cornell University between August 16 twelve weeks. The teaching and 23. Dr. Duggar is general

WOODS HOLITES! Get THE ENTERPRISE

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ALGAE

prepared for their weekly cruise osity shown in these parts, was but their hopes were dashed to given all the scientific apparatus on the Annelids, Mollusca, and an untimely death when the galant skipper reported a northeaster blowing, a sinking barometer, squalls in the offing, a typohoon just behind Pine Island pennies have been found gradular on the restriction of the America, Monusca, and We did have a good story on Bob Climenko but as he refused to have his name in the article in any connection other than the lecture on the Tunicates on Friphon just behind Pine Island pennies have been found gradular on the Tunicates on Friphon just behind Pine Island pennies have been found gradular on the Tunicates on Friphon just behind Pine Island pennies have been found gradular on the Tunicates on Friphon just behind Pine Island pennies have been found gradular on the Tunicates on Friphon just behind Pine Island pennies have been found gradular on the America, Monusca, and We did have a good story on Bob Climenko but as he refused to have his name in the article in any connection other than the lecture on the Tunicates on Friphon just behind Pine Island pennies have been found gradular on the America, Monusca, and We did have a good story on Bob Climenko but as he refused to have his name in the article. and a waterspout in the Eel ally increasing in number until day and Saturday mornings. Pond. The trip was called off at the last counting there were On Friday, July 30, Dr. E. E. and the lunch bequeathed to the 385 of them. zoologists, but Dr. Hazen, fear- Mr. Fogg as yet has arrived of fertilization. ing the effect of so great a dis- at no definite conclusion as to A great part appointment, gave us a little quize the exact cause of this placeholds. Was spent in articipation of the to 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 Prepared" in his personal opin-may represent that in the life weather was a bit discouraging finals. Monday, Aug. 2, the list of leaves one cause the single cell may give rise to a viseable to held the picnic at Laurie Miss Jerbeart and the leave for the men's doubles—all the tournaments are up to the later than the life was a bit discouraging finals. Monday, Aug. 2, the later than the life was a bit discouraging finals. Monday and the heavy fog made it ad-

trip was a great success with the buckets and bottles filled. Helen Brown's knee sprained, and several bad cases of sunburn, the botany department of these "end to end" statistics.

The turn to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the buckets and bottles filled, and several bad cases of sunburn, the botany department of these "end to end" statistics.

The party, wishing to mitigate the effects of the hearty meal, walked back to Hadley Harbor the two were picked up by the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the Cayadetta on the return the suggestions for its disposal. Journey.

Mrs. Climenko is visiting her the cayadetta on the return the suggestions of the effects of the hearty meal, walked back to Hadley Harbor the cayadetta on the return the suggestions of the cayadetta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the cayadeta on the return to a consideration of the effects of the hearty meal, walked back to Hadley Harbor the cayadeta on the cayadeta on the cayadeta on the cayadeta of the cayadeta on the cayadeta on the cayadeta of the cayadeta on the cayadeta of the cayadeta of the c sunburn, the botany department of these "end to end" statistics. son, Robert. the affected parts.

Dr. Fish of the fish commission, who spoke on "Life in the Open Ocean as Seen from the Arctur-"

Ocean as Seen from the Arctur-"

Tom of the thing, but to let it go on until we can build a botany lab nearer the beach and have lab nearer the beach lab nearer the beach and have lab nearer the beach lab near us." 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.

he immediately undertook the practical solution of his prob-The botanists last week were lem and with the usual gener-

appointment, gave us a little quiz the exact cause of this phenome- was spent in anticipation of the

recommends picric Dr. Lewis suggests buying lob-Monday evening, what was goose or the quadriciliate zooleft of the gallant boataneers attended the seminar addressed by tom of the thing, but to let it go Information constitution of the first seminar addressed by the first seminar addressed

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.

Dr. Morton McCutcheon has that money attracts money beer appointed assistant pro-

EMBRYOS

The lectures for the week are rewarded. Just lectured on the phenomena

A great part of the last week

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

We did have a good story on.

Mary Catherine has a new room and a new roommate.

TENNIS

says that his classes are accus a single cell may give rise to a viseable to held the picnic at Lewis. Miss Iglehart, as soon says that his classes are accus- a single cell may give rise to a viscatile to held the pichic at Lewis. Miss Iglehart, as soon tomed to being questioned at any filament and later an expanded time, and he feels that they colonial form. Mr. Fogg stated should be prepared to go collection that the second theory was persuccessful one. Thanks are due ing at any time. If you should feetly possible although no see our budding algologists next quadriciliate zoospores of the aration of a bounteous feed. Space will not allow the full account of the menu but there ladies singles but the rain presented to being questioned at any filament and later an expanded Kettle Cove rather than at Tarias this match is played off, will paulin Cove, the day was a most leave for Southampton where friends are anxiously awaiting. He delayed arrival. Field and Space will not allow the full account of the menu but there ladies singles but the rain presented to being questioned at any filament and later an expanded Kettle Cove rather than at Tarias this match is played off, will paulin Cove, the day was a most leave for Southampton where friends are anxiously awaiting. He delayed arrival. Field and souther than at Tarias this match is played off, will paulin Cove, the day was a most leave for Southampton where friends are anxiously awaiting. He delayed arrival was presented to capture the provided from the pich cover the paulin Cove, the day was a most leave for Southampton where friends are anxiously awaiting. He delayed arrival was presented from the pich cover the paulin Cove, the day was a most leave for Southampton where friends are anxiously awaiting. He delayed arrival was presented from the pich cover the paulin Cove, the day was a most leave for Southampton where friends are anxiously awaiting. He delayed arrival was presented from the pich cover the pich cover the or wearing bathing suits to lec-swarming around the pile. Our count of the menu but there ladies' singles, but the rain pre-ture, it doesn't mean that we're own belief is that the old theory really was nothing lacking. A vented the game. Lancefield and out "on location" but that we're prepared for almost anything.

This week started off with a collecting tour de luxe aboard the S. S. Cayadetta to Cutty-luxe to a consideration of the lefters of the heavy wishing to a consideration of the lefters of the heavy mean tasking. A vented the game. Lancefield and group around the fire eagerly Lewis again come together for presuded Dr. Packard to tell the men's single as they have the famous story of "Hubert and done so often before. Because the Frog." A number of the departure of Mr. and Mrs.

Sidney Britten went to Mar- Professor Leon A. Hausman; strongly recommends picric by Standard Professor Leon A. Hausman, acid. It soothes, heals, and imparts a pleasing canary tint to haps, however, the best idea mother who returned with him. cently been made the science mother who returned with him. cently been made the science. would be not to kill the golden Mrs. Britten will spend some editor of Compton's Pictured time at Woods Hole with Dr. Newspaper of Chicago. He has also been invited to contribute

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> FRIDAY, AUGUST 6th, 1926 "SPORTING LOVER" with CONWAY TEARLE

SATURDAY, AUGUST 7th, 1926 "STILL ALARM" SPEEDING FIRE HORSES THRILLING RESCUES 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

TEN CENTS

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 excellent 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 information, and enjoyed telling stories 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.

William Ring was one of the most intresting characters of Woods Hole. Time had apparently not dulled his 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 cheeks; and behind his thick-lensed spectacles his eyes twinkled as he recalled the days when he was a sailor.

Brick Building:

Captain Veeder has offered to help make the picnic a success and will have clams and coffee cooked on board the Cayadetta. The only expense connected with the trip will be for the clams, to cover which expense a collection will be to the cover which expense a collection will be to the cover which expense a collection will be to the cover which expense a collection will be to the cover which expense a collection will be to the cover which expense a collection will be to the cover which expense a collection will be to the picnic as success the picnic as success and will have clams and coffee cooked on board the Cayadetta. 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 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 wears are 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. Interment was in St. Joseph's Cemetery in Falmouth.

Well Known Impersonator to Appear In Woods Hole

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

Elizabeth Gurrell Whiting, impersonator, presenting "The Academy of Sciences.

Man From Home" at the Woods
Hole Community Hall. Admispresent two hundred at sion \$1.00. Proceeds for benefit of M. E. Church.

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. (1 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 He was well known and well liked be made at 3:30 and 4:30. by the people of Woods Hole most of whom had known him since early pionic should size who wish to go on this pionic should size whom had known him since early pionic should size who wish to go on this pionic should size who wish to go on the same should size who wish to go on the same should size who wish to go on the same should size who wish to go on the same should size whom the same should size who wish to go on the same should size who wish to go on the same should size whom the same should size whom the same should size who wish to go on the same should size who wish the same should size whom the same should size whom the same should size who will same should size who will same should size whom the same should size whom the same should size who will same should size who will same should size whom the same should size whom the same should size whom the same should size who will same should size whom the same should size whom the same should size whom the same

help make the picnic a success the physiology course at the and will have clams and coffee laboratory. will be taken up on the boat. All are expected to supply their own sandwiches, watermelon, lobsters or whatever is desired. for a year and on December 19, 1868, Coffee will be furnished by the came to Woods Hole to make his home. For 20 years he was employed 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.

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. Lillie. Dr. Jacobs is professor picnic should sign up on the of general physiology at the form posted on the bulletin University of Pennsylvania and board of the vestibule of the Brick Building. rick Building.

Captain Veeder has offered to 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 Col-

Ross G. Harrison, Yale Uni-

versity. H. S. Jennings, Johns Hopkins University.

The Tide in the Hole

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

r micj ala	Doulla.		
Aug. 12		7:59	A. M.
Aug. 13		8:46	A. M.
Aug. 14		9:31	A. M.
Aug. 15		10:18	
Aug. 16		11:10	A. M.
Aug. 17		11:55	A.M.
Aug. 18		12:18	P. M.
Aug. 19		1:10	P. M.
Statement provider			

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

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 University succeeds Dr. Calkins as Clerk of the Corporation. Woodruff was also elected to the position of Secretary, pro tem, of the Trustees.

Lawrason Riggs, Jr. was reelected 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. The Executive Committee of the laboratory is now composed of the following trustees:

Frank R. Lillie, Ex. off. Chairman.

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 1928.

(Continued on Page 4)

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 finals of the men's singles. playing of the finals in the women's singles on Friday afternoon, August 6, there came to a Mess Court at 4 P. M., Wednesformal close the most interesting and successful tennis season in eager gallery was in attendance. 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 dekept in possession of the Labor-

Pattens in a semi-final match, 8-6, 7-5, after having previously

score of 6-2, 6-3.

Miss Madeline Field emerged victorious from a splendid list of entries in the women's singles to three sets, 6-2, 5-7, 6-2.

Lancefield Loses

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 game, coming to the net to make net. game, and with it the set at 7-5, was their's on Dr. Lewis's serve. Final score: 6-3, 6-2.

The second set produced some of the finest tennis seen during the entire tournament. Both sides made many placement aces, ing the net at every opportunity and angling sharply for points. The issue, as in the first set, seemed at no time certain, but uncanny trimming of the lines the set went to Lewis and Iglehart at 6-4.

and which resides permanently and many of the rallies seemed making many fine returns from 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 Great interest centered in this match, which was played on the day, August 4, and a large and

Lancefield, winning the toss, chose the court, and Dr. Lewis took the first game on his own with marvelous accuracy, ran out the next three games. With the score 5-0 against him Lancelong deuce game, productive of large gallery. Lancefield and Inman won the men's doubles by a circuitous route when they defeated the Total and turned defeat into the corners, and against any score of 6-2.

Miss Field's splendid victory is the more remarkable in that won their finals match with consistency, returning seeming-Speidel and Hitchcock by the ly impossible shots from all corthe ninth game on his own ser- courts in the future. vice for the set at 6-3.

Games went with service in by virtue of a hard-earned win the second set until the fourth over Mrs. Holt, the match going game when Lewis broke thru and led at 3-1. Lancefield brought of this event that it seemed virthe score to 3-2 with a brilliant love game and Lewis retalliated The mixed doubles match, by uncorking the most spectacwhich was played on Monday ular placing of the whole match. afternoon, August 2, drew a He had his opponent constantly 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 both- stand, Lancefield kept his powerered by the damp court which ful serve on Lewis's backhand in slowed down the bounds, but the next game. But to no avail bracket, and on the chance that played a very strong game over- What looked like sure service they might come thru it victorhead. Lewis and Iglehart broke aces were returned from difficult thru Mrs. Lancefield's low-angles for placements and Lancebounding serve in the eleventh field's returns were finding the The seventh and eighth sharp placements; the next games went to Lewis and with them the set and the match. William and Bradley Patten in

Miss Field Wins

singles followed immediately which was played at the Strong Miss Iglehart in particular tak- after the conclusion of the doubles on Friday afternoon. productive of fast and brilliant Miss Madeline Field, the dark tennis. horse of the tournament, met and defeated Mrs. Holt, the the semi-finals against Lance-Lewis's superior steadiness and brilliant stylist, 6-2, 5-7, 6-2. field and Inman. The meeting Miss Field won her own and between these two teams took proved the deciding factor, and Mrs. Holt's serve and led 2-0. place on the Mess court at 4 Games then went with service o'clock, Friday, August 6, and until 3-1, when Mrs Holt doubled despite the damp condition of The names of the winners will faulted badly and trailed at 1-4. the court produced many thrills. now appear on the cup for the The sixth, a long deuce game, The Pattens directed their atmixed doubles tournament which went to Miss Field. Both play- tack at Inman, who seemed

interminable. set was Miss Field's at 6-2.

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 serve. Lewis then broke thru as steady as ever while her op-Lancefield's service and, placing ponent, playing with abandon, made frequent errors. Both players, altho adhering mainly to the back court, took the net field steadied and won his own often and their fine placing service. Then there followed a drew repeated applause from the Breaking thru 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 again headed by her adversary, strong Cup, the permanent eighth game was Lancened Son who seemed to tire rapidly, and illustrated lecture on fully at this point, hitting deep altho she dropped another game to the corners, and against any the set was easily hers by the

> victory. Lewis, however, pos- it was gained over the strongest sessed the necessary margin of 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 tually to meet itself coming back. The lower half moved rapidly and Speidel and Hitchback. cock 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 iously they played a premature finals match against Speidel and Hitchcock, beating them 6-2, 6-3.

Strong and Harvey finally met a second round match and lost to them by the score of 6-4, 6-4. These two teams were very The final match in the women's evenly matched and the conflict. court on Penzance Point, was

This brought the Pattens into

was presented by William Strong ers were stroking the ball well more than equal to the occasion, 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 long deuce games. Coming from of the Pattens, enabled them to behind and playing carefully pull out a victory after two Miss Field evened the match at hard-fought sets, 8-6, 7-5. The 5 all. Mrs. Holt's beautiful, results, then, completely vindifree-swinging backhand and cate the early defeat of Speidel and 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 Mediterranean Cruise." 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 summer at their home, The Lantern, 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 Is-"A seven-foot length of solid glass tubing!"

We find odds and ends that not rarely 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,
[ay-lo! and behold! - it's - "An-Nay-

other one please."

nH.

THE MESS AND

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 ent 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:

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; Coombs, Mrs. N. E., Boston,
stewardess; Currie, 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; Pond, Mrs. F.,
Haverhill, chambermaid; Ricketts,
Mrs. F., Boston, mastry cook (asst.): hill, chambermaid; Pond, Mrs. F., Haverhill, chambermaid; Ricketts, Mrs. F., Boston, waitress; Ricketts, F., Boston, pastry cook (asst.); Roche, Elizabeth, Ireland, chambermaid; Roche, Margaret, Boston, 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 Cot-

returned from a visit to Weston, Mass. where she delivered a lecture entitled "Toads in our Gardens" at the Hillcrest Gardens.

has some advantages. The scene scene discrepancy in the gram and apparent discrepancy in type of plays presented.

The last play, "The Same Old Thing", a farce by Roi Cooper with red curtains above, white

ITS ORGANIZATION Saturday Night Club Plays Success uninteresting, and scarcly worthy of the costume of the

Productions Enthusiastically Received by Capacity Audience

A very worth while program picket fences and gay flowers. of one act plays was presented incidentally these two, R. C. Mcto 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 the ground on March 17, 1920 plays has been given by and for would make a delightful evening seated only 250 while the presthe benefit of the M. B. L. and for young and old.

Tennis Clubs. The moving Frère Jacques, a roundel, enspirits behind these plays have been Dr. and Mrs. Clark who have been unsparing in their was spontaneous and delightful time and efforts to provide plays to which the audience responded and casts to satisfy all appetites. in chorus. These song plays When one considers the short were of true artistic merit and period of rehearsal, often but we hope we will hear more of 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, a few days and never more than them. 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 the melodrama Miss Katherine well chosen and the parts were Tyler gave a splendid rendering 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 legitimate 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.

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 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 of a Symphonic Etlude by Schumann. Unfortunately pianos 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 performed, seemed out of place to some. A large part of the audience consisted of students who gave They were like quaint pictures out of a French nursery song book. In "Au Clair de la Lune", "The Same Old Thing" which Peggy Clark as Mon Ami, Pier- were rather of the college type rot, showed her natural histri- of burlesque, a most enthusiastic onic powers to advantage while reception. It was the purpose Vicky Glaser at the window was of the committee to end up the aided by nature in representing program with plays of lighter a toothless, irate Pierre. Shedding one's front teeth at seven while Indian play. This fact Miss Hilda E. Karns has just has some advantages. The scene explained the drop in the pro-

greatest reaction from the audience. There were some, how-ever, to whom the play seemed 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.

H. A. DANIELS

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Vol. I. No. 4.

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Marion Rea Chair. Social Co	m.

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Contributing Editors

A. S. Eichorn... Bureau of Fisheries at the Marine Biological Labora-Eleanor Sloane...... Jelly Fish tory. Helen Jennings......Town Topics

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 un-hampered by restrictions of doubtful wisdom.

We have always taken pride 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 key to the balance rooms, so the notice informs us, may be ob-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 fact that to some it seems necessary to guard the balances Chicago. under lock and key reflects perhaps upon those who have been. using the equipment in question. It is unfortunate that this is the Pennsylvania. case, but it seems scarcely necessary to impose restrictions at the expense of the convenience of the experienced investigator.

the Key?

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

locked day and night even though they contain miscroscopes and other equipment whose value totals perhaps a thousand dollars in some cases. Aug. 12, 1926 It seems strange that the laboratory must so carefully guard equipment costing only fifty or a hundred dollars when individual 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 H. Cattell, Anna C. Dunlap, A. the trustees of the laboratory plan to take under consideration the question of the publication

The laboratory undertook at J. M. Fogg Sports 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 Biological 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., treasurer, 25 Broad street, New York City.

L. L. Woodruff, clerk of the tained in a nearby room. But corporation, and secretary of what if the Custodian of the 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 Virginia.

R. S. Lillie, University of

E. P. Lyon, University of Minnesota.

C. E. McClung, University of

T. H. Morgan, Columbia University.

D. H. Tennent, Bryn Mawr College.

E. B. Wilson, Columbia Uni-

To Serve Until 1928

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

Caswell Grave, Washington

University.

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

R. A. Harper, Columbia Uni-

versity.

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.

Crampton, Barnard H. E. 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

C. Grave A. P. Mathews C. R. Stockard H. C. Bumpus W. C. Curtis

J. R. Schramm

L. L. Woodruff E. G. Conklin

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R. G. Harrison
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W. Patten
W. P. Scott

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.
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 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 attended 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

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. Gardiner
W. E. Garrey
O. C. Glaser
H. B. Goodrich C. Grave

E. N. Harvey Margaret A. Hayden

T. E. Hazen O. L. Inman M. H. Jacobs H. S. Jennings

A. M. Keefe

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 Florence Peebles H. H. Plough

S. E. Pond F. H. Pratt A. C. Redfield C. G. Rogers

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., arrived 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.

Dr. Livingston Farrand, president of Cornell University, is Amy Folsom and Miss Eugenia visiting Woods Hole with his

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 are nearenable (or good a) into weigh a chrystal that be deligated as the custodian of this work. 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 conditions 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 removing the key, to plug the key hole with cotton to prevent the entrance of bacteria, dust, or moisture. The following oath is then administered to the licensee

The Oath of Pondocrates

I swear by Ga'lileo, 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 weighto reckon him who taught me weighing 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 instruction, I will impart a knowledge of the art to my sons, and to those of my teachers and to disciples

fit of my balances, and abstain from whatever is deleterious and mischievous. I will weigh no deadly poison for anyone if asked, nor suggest any such counsel, furthermore, I will not give to a novice an instrument to as-

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 destruction, and further from the production of blemishes or knocks, large

Whatever, in connection with my professional practice or not in connection with it, I may see or hear in the realm of science which ought not to be spoken abroad, I will not divulge, 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 respired med. 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)

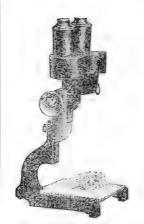
nine members, selected as the foremost American men of cience chosen from all fields. It is of interest to note that one of the founders of the Academy was Louis Agassiz, who was the founder of the Anderson School of Natural History on Penikese Island, and thus the foerunner of the Woods Hole Laboratory. The Academy was organized during the Civil War, with two

bound by a stipulation and oath, according to the law of the Custodian, but to none others.

I will follow that method of treatment which according to my ability and judgment I consider for the benefit of the law of the benefit of the law of governmental recognition it still holds. A recent development is the awarding and administration of fellowships supported by the Rockefeller Foundation and other grants, through its subsidiary, the National Research Council.

The members of the Academy Medical College, Gary N. Calworking in the laboratory are kins Professor of Zoology Coworking in the laboratory are kins, Professor of Zoology Co-H. H. Donaldson, Professor of lumbia University. Of the eight Anatomy in the Wistar Institute, academy members, seven are H. H. Jennings, Professor of Trustees of the Marine Biolog-Zoology Johns Hopkins, Frank ical Laboratory.

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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 Trustees, 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, 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 expect to visit the West Indies this Fall to continue their investigations on ecological problems.

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. Bumpus, W. C. Curtis, J. R. Schramm,
M. M. Metcalf, B. Nemec, Professor
and Madam Domin, J. M. Cattell, M. M. Metcall, B. Nemec, Professor and Madam Domin, J. M. Cattell, R. E. Coker, J. A. Detlefsen, H. H. Donaldson, B. M. Duggar, R. G. Harrison, J. E. Kindred, F. H. Pratt, W. B. Scott.

CORPORATION BY-LAWS | BIOLOGICAL WORK 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 resume their former trend, and Russian, the contents and the there appear many new young 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 counected 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 to intrude into the policy, plans Prague, Czechoslovakia, have of teaching, etc., which cause been visiting our laboratory this great trouble in the normal past week-end on their way to academic life, and very often causes the feelings of the educators to become quite insupportable. Only those who have 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 severe and imbecile censure of all publications not excluding the scientific ones. To illustrate: One farsighted Soviet censor insisted 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

Sebastopal, Crimea. Besides these there are three ichthyo-Besides | 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 Inrevolution. stitute publishes the "Journal of Experimental Biology"; The Peterhof Institute — "Travaux de l' Institut des sciences naturelles de Peterhof". The Wolga Hydrobiological Station lishes "Arbeiten der Biologischen Wolga Station", and "Russian 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 summaries of papers are always 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 accommodations 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 back- can model anything in five minhere. And, honestly, we are afraid that the trail of our progress is indelibly impressed on the track aspirants tried their the M. B. L. and especially upon luck at the charming pastime of a certain long-suffering labora- three-legged races. tory which will be just a little worse and more battered after vertebrates were changed to 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, and women's free for all, mixed 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 repre-

Evolutionary adaptation certainly played havoc with the that day. But just before we termination had reduced our bryo scientists at Woods Hole pie in a pie eating contest?). will gaze at that picture with awe and envy and the present the invertebrates are no more! invertebrates with hoary beards will shake their heads and sigh reprovingly, "This present generation of invertebrates!—now when I took the invertebrate course—". But now the only thing we can think of is, "It's

"darn" or something stronger. So just to have a grand and September 1, or longer. So just to have a grand and glorious good time together before August 9 rolled around the whole invertebrate "gang" went to Tarpaulin Cove for the one and only picnic. We refuse to say we had a "grand and glorious time", that would be putting it mildly and if we raved with the degree of enthusiasm we feel, such charming phrases as "gush", "trash", et cetera would float by night upon the fogos of Woods Hole. Do you want to know what we did?—well, just try and find out what we did not do. Dr. Dawson is getting just a little too versatile, Woods Hole. We are afraid he will have to find larger hunting grounds or enter Major League baseball. Baseball as the invertebrates play it is an experience never to be forgot ten—mixed teams, good players, reverse batting, underhand pitching, and a field that would have made splendid sled riding in January. And with such a weight of hard caps, the swarthy team, headed by Dr. Dawson, walked off the field with one broad grin. And, then we ate, and Napoleon's army had nothing on the invertebrates when it came to "travelling on their stomachs". The sout! Taylor, Ivan, R., Taylor, V. R. Sales. Sales and the extreme. Time out! Taylor, Ivan, R., Taylor, W. R. Schoule, W. R. Sheringer, M. Sheringer, H. S. Sheringer, L. G. Biddle, P. L., Basker it is shock voluntarily, when it is experience or intends out in the shock to the obse thus of the odo so in self-defence or intends to stun or kill its prey. Armstrong. P. Armstrong glorious good time together before August 9 rolled around the

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 minutes from a typewriter to a cirbural that if you chew gum two minutes furiously, out of it you can model anything in five minutes from a typewriter to a cirbural that is a constant. Thorne, Louise, Titlebaum, Albert, Tyler, A. Ranger, Tyler, Katherine, Unhenhuth, Mr. E., Vanbaun, Dr. and Mrs., Vicari, Emilio, Walters, Mary Jane, Wieman, H. S., Mavor, Mrs. J., Witschi, E., Choate, Dr., Grant, Jean, F., Lynch, Ruth, Orbison, Agnes. ward to show that we have been utes from a typewriter to a circumoesophageal ring. But the interest in art soon waned, so

> Then for about an hour the inback stroke race, cake carrying contest, in which the staff was sentatives.

But what we want to know is, tainly played havoc with the why does everything have to end artistic temperament of the class so soon. Captain Veeder and Jack simply insisted that all the finished the dissection, when de-invertebrates get back in time for Mess even though half of us 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

And then it was all over,-

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 all over", plus an explosive have declared their intention of remaining in Woods Hole until to parts, either for sensation or

Those who will remain during September are the following:

D., Grant, Jea 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 below. Each of the prisms is divided into tranverse compartments filled with clear, jellylike fluid and lined by an epithelium 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 action.

The fish gives the electric

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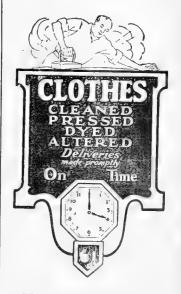
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CORPORATION BY-LAWS

(Continued from Page 6)

called.

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, Secretary shall give notice there- hysterical exhaustion. transaction of business. Board of Trustees shall have power to choose an Executive breakage recorded). 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 there is surf and to have to 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.

Trustees, provided that the no- botanist when he finds himself tice of such meeting shall state sitting down where he never exthat an alteration of the By-laws pected to sit, and his hoard of will 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 night seminar. As the poster Griffin dived off the Cayadetta III. The Clerk shall give in lab predicted, the Botany and found she couldn't get back. Department of Woods Hole bers by publication in some daily by the Some dai newspaper published in Boston at least fifteen days before such meeting, and in case of a special 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 long, because a skiff had to be journed to lab and engaged in long, because a skiff had to be the Annual Indoor Track and launched to pull them both in. IV. Twenty-five members Field Meet. The events were Nevertheless it was an original exciting and hotly contested. touch, and originality is our The first of these was the 30inch 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 marshmallow 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 has taken what was once Vinal third event was a relay in which ary circumstances. The physical was tremendous, and the exertion required in whistling, then eating a gigantic milk cracker, saying "six, thick, thistle sticks", and whistling again, resulted, or by any two Trustees, and the in several cases, in a sort of Dr. Hausman is Associate Proof by written or printed notice fourth event was a boxing match University, and is well known sent to each Trustee by mail, in which the New York pugi- for his research on mammalian postpaid. Seven Trustees shall lists (of the weaker sex) deconstitute a quorum for the transaction of business. The challengers and broke all predictions are listed to the first the challengers and broke all predictions. vious records. (That was all the The last Committee from their own number, and to delegate to such Comwhich Father Keefe triumphed, mittee such of their own powers although the whole crowd gave as they may deem expedient. 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 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 IX. These By-laws may be instrument to record the suraltered at any meeting of the prised expression assumed by a prised expression assumed by a 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.

since no botany trip can be considered complete without some charge of the botany course truly spectacular occurrence, the here, departed suddenly at the climax was afforded when Grace

Professor Gorokhoff and his 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, Edwards' barn for the summer. eligibility was limited to the Dr. Edwards used the top floor ability to whistle under ordinuntil his death three years ago as a museum. The house is loand mental strain in this contest cated on Quissett Avenue, opposite Millfield Street.

> Dr. Leon Augustus Hausman 'land his wife arrived in Woods Hole Sunday for a few days stay. The fessor of Zoology at Rutgers

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

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Monday, August 15 "FOR HEAVEN'S SAKE"

with Harold Lloyd

Tuesday, August 16 "PADLOCKED"

A new Paramount picture

Wednesday, August 17 "SPARROWS"

with Mary Pickford

VOL. 1. NO. 5

WOODS HOLE, MASS., THURSDAY, AUGUST 19

TEN CENTS

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 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 repeated in Falmouth. Come one shore, swimmers, divers and and all. The celebration begins paddlers of both sexes, old and at three o'clock in the afternoon.

Miss Mary E. Wood, librarian of the Boone Library, Cenevents, helping win the Girls' tral China University, Wuchang, Relay, and coming out victorious 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 afternoon, 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 15th. A program of select music was rendered by Miss Ilse Huebner, pianist, and Miss Nancy Wilson, cellist. Those present were much en-thused by the inspiring music and everyone spent an enjoyable afternoon.

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 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 of spectators who lined the young, made merry.

Miss Isabel Morgan was the outstanding star of the occasion. winning first place in three

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)

If there is any inhabitant of 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 inception of the organization about ninety members have

(Continued on Page 7)

Botanists Lecture

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

Absorption of Ions

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 Trop- Howe, of the New York Botanical Agriculture, located at the ical Gardens, in the Auditorium Citrus Experiment Station, on Tuesday evening, August 3.

Riverside California. The ex-Riverside, California. The experiments which have been done under his direction have been and pointed out that, contrary designed to study the absorp- to common belief, the corals are tion 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 standand belenged culture solution.

"coral reef" resulted in the placard 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 marine algae. trees were grown in large metal containers for several years in order to simulate orchard conditions. 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 Vineyard Sound:

> Aug. 20 2:08 P. M. 2:53 P. M. 3:59 P. M. Aug. 21 Aug. 22 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

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

8:21 P. M.

Deposition by Marine Algae

"Reef Building and Land

different organisms which play a part in the formation of land order of their effectiveness as agents in building up land, first

Of the minute algal organisms which aid in deposition the The effect of 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 occur 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 impor-

(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 Coralcalled Nullipores. It is known physically and mentally compe-acquisition of knowledge of natnow that these lime-secreting tent. The article is obviously ural history, and eagerly hope red algae, which exist chiefly in based on extensive experience, that the vast fund of accumuthe warmer tropic and sub- and is replete with excellent ad- lated experiences of the older tropic waters are important vice and sagacious warnings, habitues of the Hole will become agents in the extension of the even against those snares of available to us through its pages. land areas. Many of them are canoeing into which the author blance to the true corals.

forms there are certain microscopic algae belonging to the hot springs, such as those in portions of the western United States, and may be materially concerned in altering land sur-

In concluding the lecturer dwelt upon the importance of algae as fossil deposits. Many Hole! 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 directly attributed to the products of plant metabolism. J. M. F.

Dr. Fish Lectures

"Biology Students in British interesting illustrated talk given by Dr. H. D. Fish, professor of zoology at the University of Bittsburgh last Friday. The next issue of the Collecting Net will contain an account of his lecture.

QUADRANT ELECTRO-METER MISSING

A quadrant electrometer has haustive search this summer has its whereabouts. It was probable The sail boat enthusiast receives ably lost in 1924 when the anonymous approbation from Rockefeller Building was moved "F. E. K." in an article which, reprints, which are becoming from the edge of the Eel Pond while interesting, rather fails to constantly more useful to into its present site.

The instrument is worth well knowledge. over two hundred dollars and Dr. Hitchcock, its owner, will be grateful for any information

The Woods Hole Index

first.

lina, which are branched types. E. V. Cowdry, of the Rocke-Earlier, when little was known feller Institute and the Marine The Index we believe to ha about the life histories of these Biological Laboratory, strongly a most interesting and useful organisms, many of them were advocating the increased use of field in acquainting us with the regarded as corals and were canoes in this vicinity by those possibilities of enjoyment and exceedingly beautiful in habit himself is reputed to have falland bear a superficial resem- en! Trips are outlined, types of canoes considered, and even the In addition to the marine most advantageous position for described. It is quite refresh-Myxophyceae which occur in ing 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

Charles J. Fish has written, from a somewhat economic viewpoint, concerning the investigations of the New England Infant mortality Fisheries. 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 Guiana" was the subject of an more serious is a bibliography the Woods Hole area. For the For the more cultured there is a poem by Eleanor Addison enonly before the days of Mr. Nickerson's busses, and the schools of flivvers presumably spawning on the banks of the disappeared from the confines Eel Pond. Marie Poland Fish of the Laboratory and an ex- has described the habits of several types of tropical fish occafailed to reveal any traces as to sionally seen in these waters. anonymous approbation from over thirty thousand separate tell us anything not of general vestigators. Twenty five thous-

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 The leading article is by Dr. considered it as typifying the

The Index we believe to have

T, P, H

LIBRARY NOTES

The Library Report presented the paddler (while paddling!) is by the Librarian, Mrs. Priscilla of Medicine, the American Med-B. Montgomery, to the Trustees their Annual Meeting contained items of interest and importance to the laboratory, particularly those in investigative work.

> 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 unwanted sets, the interchange publication, more or less com-The number of bound plete. journals exceeds twelve thous-

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 corof scientific papers dealing with ner". A majority of the books in this collection are furnished most part they concern marine by the publishers to the library fauna, but some are botanical, without charge as an advertising measure. In order to convince other publishers that this titled "Falmouth to Woods donation is profitable the libra-Hole." One might suspect the rian asks that each person purconditions epitomized existed chasing 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 and were received during the past year as a result of an appeal to members of nine Ameri-Of obituary nature, the edi- can scientific societies and the six years has been director of concerning this valuable piece of torial tells us that the Book apparatus.

Physiological Society of Eng- the physiological laboratories of 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 Physiologie, 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 ical Association, the Crerar Library, Biològical Abstracts, Rockefeller Institute, Smithsonion Institution, the Library of Congress, the Surgeon General's Library and numerous univer-Since last summer seventy sity libraries to consider special five periodicals have been added 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 of books between libraries, the selection of special fields of responsibility 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. director will be pleased to receive manuscripts for publication in the October and November numbers.

Dr. Francis G. Benedict, director of the nutrition laboratory 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' Race: 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.

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

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

Girls' Race: 15 and under. Winner: 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-

Boys' Race: 16 and over. Winner: Eric Warbasse; Second: Pete Warbasse. 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: Warbasse; Second: Herman 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 Hear 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 Won by Isabel heat.

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CHARMING SUMMER WEDDING HELD

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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 after-

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

The bride, as fair as the lillies which graced the altar, deep embroidery. Her court 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 bouquets in pastel pinks, blues, Chambers. and lavenders completed the ensemble.

Dorothea and Mary Averett 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 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-Symphony, Ave Maria by Bach Gounod, and Handel's Largo. The bride's entrance was heraldflower colors worn by the bride Lohengrin and the ceremony closed with the March of Men-

The groom was attended by wore a white georgette dress of his brother, Mr. William Blaissimple fashion elaborated with dell, and the ushers were: Mr. D. V. Garsten of New Haven, Ahmed Hassan Bey, of Constantinople, Mr. C. W. Hinton and Dr. I. H. Page, both of New York. Their informal white 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 hats of black and fascinating Edward Lucas and Bradford

> The out of town guests included Miss Mary Allen, of Worcester, Mass., Mr. and 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 Woods Hole and New York, and bride on her previous visits

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 pre-

An orchestra composed of Jerry Boze, saxophonist, Alice McNaught, violinist, Mrs. Fisher, violinist, and Mr. Fisher, ghetto 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 of batchelor buttons which were 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 expenses were more than met After the wedding, Dr. and charging the modest sum of \$1 a couple.

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The Collecting Net

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

Vol. 1. No. 5 Aug. 19, 1926

Club Officers

Editorial Staff

Ware Cattell, Managing Editor, Helen doing otherwise. They are: H. Cattell, Anna C. Dunlap, Thomas P. Hughes, A. Ranger Tyler, Associ- ing the key, and the possibility ate Editors.

Contributing Editors

J. M. Fogg Sports

Gravity

The editorial appearing under ments whereby its apparatus the heading of "Restrictions" can best forward scientific rehas been successful in provoking a considerable amount of disease. This policy is not necessarily carried out by guardthe question were not equally tors. considered, and the purpose of Loc was written.

set of weights or \$67.50. Al-of he speaks!)

of highest precision are not use the balances might not be we can not be trusted. locked, but are under the cus- granted until he was personally Restrictions here are

todianship of an experienced shown how to operate them. worker who is ready to assume the obligations involved in exing the balances in his room.

is the best possible solution. We learn that little or no damage has been done since the adoption the next to use the balances! C. C. Speidel..........Vice-Pres. fident that hand in hand with M. SampsonSec.-Treas. this improvement goes greater Florence Tinkham. Chair. House Com. inconvenience and less usage of one might hesitate to weigh material when under normal conditions he would not think of else?

> (1) The time taken in locatof not being able to obtain it on reaching the designated room.

A. S. Eichorn... Bureau of Fisheries (2) The reluctance of the Helen Jennings...... Town Topics 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 arrangecussion, 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 investiga-

Locking the balance rooms 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 ras written. weigh caustic soda without a It is with consternation that container whether he has to we learn the extent of the mis- hunt up a key or not. An anause of the balances of the lab-logous situation might be the 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 ure to remove the flame until the extent of \$150.00; and last after the water had boiled away. 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 injury du Bureau of Standards was inca-only available after signing for lessness. 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 exweights with gold would have intimately acquainted with the pensive balances would have the been equal to the cost of a new investigator, and knows where-

kilogram balances has been tions under consideration are material as simple as possible; seriously injured and the esti-caused by the carelessness of \$100.00. Four sets of ten milli- is a difficult situation. Investi- cision apparatus. It will do gram riders have disappeared. gators and their assistants must much toward checking the in-Due to the deleterious effects of realize their responsibility, herent tendency to weigh matecalcium chloride on the posts They must exercise the care in rial on precision balances when and of sulphuric acid on the the use of precision apparatus biological factors and physical wood work a \$150.00 balance that they would use when work-conditions introduce errors far

If the facts were not indisputable it would be difficult to beauth ance the laboratory is in part lieve that such things would oc-responsible for the treatment of Woods Hole cause (unless cur at the hands of research accorded to their balances. professional technique is used) workers in an institution of this Directions for their use and the a three per cent error in the kind. Protective action of some precautions that must be taken character was imperative and should be clearly written and the locking of the balance-rooms prominently displayed. Unless and the placing of the key in an individual can give satisfac-

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-Marion Rea..... Chair. Social Com. the balances. For two reasons oratory worker can obtain it at any time, and yet without inconveniencing himself or any one

> 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 responsible person will be in the immediate vicinity for a greater part of the time.

Of the latter two possibilities (b) would obviously better safeinjury due to ignorance or care-

Placing the Trip scales in septwo distinct advantages (1) of serving research better by makready this year one of the five If these unfortunate condiling the operation of weighing (2) of reducing greatly the unhas been recently sold for ing with their own microscopes greater than those involved in \$10.00. balances. On authority we learn that the atmospheric conditions weighing of half gram samples.

The present system is objected to on two grounds:

(1) Investigation is actually 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

Restrictions here are few and Domin.

nown how to operate them. the laboratory is known The system of requiring the throughout the world for its lack worker to sign before entering of red tape in its administration. change for the privilege of having the balances in his room. the balance room is an excellent responsibility and the "honor system" incorp-One wonders, however, if this bility, and he is likely to leave orated therein is worthy of comthings in perfect condition. His mendation. Any person con-immediate superior might be nected with the laboratory, (or those 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 privileges 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 is the meeting of the International Congress of Sciences at present in session at Cornell University. No gathering of like scope has been held since the session of the Third seriously injured and the esti-caused by the carelessness of (2) of reducing greatly the unitarian language material given for its repair is those making measurements it necessary use of the high pre-linternational Botanical Concessary of the milliple of difficult situation. Investi-cision apparatus. It will do 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, bacteriology, 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. Hollander, J. B. Scott, J. R. Schramm, B. M. Duggar, B. Nemec, Professor and Madame

THE SEA URCHIN

IT PRICKS WITHOUT DISCRIMINATION

A certain individual will probably be surprised to note the sparsity of references to him in the column this week. It is unfortunate that in the issue of August 5, there accidentally appeared three notes concerning this person. "Hold" was marked on the galley proof because against research and methods of fallow the cilitating research were authored. The same accidentally appeared three notes concerning the first conference, which fourteen representatives of ten institutions of the reasons why he, as a university professor, was interested in this movement to promote research in American colleges. August 5, there accidentally apside a couple of these pricks, but the printer did not take full

other day he discovered a fishhook that he had been missing for the past three weeks.

Miss Impi Arvo and J. J. Murphey announced their engagement in a novel manner to a large group of their friends on August 7 at 10:37 P. M. It has already been rumored that Miss Arvo has made reservations for the train leaving on the approaching Saturday for Reno, Neb.

COAST GUARD PICKS UP CHINESE JUNK

Many people in Woods Hole watched with interest the dragon colored Chinese junk that
passed through the Hole during
the latter part of July. The
Relations of the National Research
Council would facilitate
the work of such committees. After
a day of discussion it was voted to
request the Division of Educational
Relations of the National Research
Council to organize a committee or "Amoy", which sailed across the Pacific in 87 days three years ductive scholarship among teachers in

colors, and is decorated with dragon's eyes. Although retaining the outward appearance of its original state it has been fitted out with modern plumbing and other conveniences. The craft, though sixty-eight feet long, draws only four feet of who could represent its interest; and long, draws only four feet of aid in promoting research by means water. Alfred Nilson, an author, is its captain.

A WOODS HOLE CONFERENCE ON RESEARCH IN AMERICAN COLLEGES of the National Research action on the part of a group within

Twenty Four Colleges Send Representatives to Conference Here

The promotion of productive scholarship in American colleges was the The promotion of productive scholarship in American colleges was the subject discussed at a conference of college and university representatives held at the M. B. L. on Tuesday, August 17th. This and two similar conferences held in Washington in December 1924 and March 1925, owe their origin to the enthusiasm for research and initiative of Dr. Maynard Metcalt; and to the realization by individuals and by institutions of the necessity of encouraging research in American colleges.

but the printer did not take full cognizance of the general physical fact that the reactions evoked by intermittent stimulation are far greater than those resulting from continued cxcitation.

It is rumored that when a prominent member of the collecting crew combed his hair the other day he discovered a fish-that he had been missing. dent, Amherst College; Anne Young, Professor of Astronomy, Mount Holyoke College, arranged for a second conference to be held in Washington on March 20th, 1926. Invitations were sent to colleges throughout the country requesting that the College send the President, the Dean or some member of the faculty interested in the promotion of research as a reprethe promotion of research as a representative to this conference.

Twenty-four colleges sent representatives. A project was submitted and discussed. Methods already in operation in different colleges for the encouragement of research were outlined, and suggestions offered for increasing the opportunities and the stimulus for research in American colleges.

It was agreed that a research committee in each college could do much to foster interest in research on the part of the faculty and the administration; and that recognition by such ago, was taken in by the Coast Guard boat in Long Island Sound last week for carrying Chinese men who could not produce 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 cil; presented this request accompanied by a detailed report of the preliminary conferences, an argument for the project presented, and a plan of organization of such an administrative committee as that suggested in the project gested in the project.

The Division of Educational Relations 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

At the conference held at the M. 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.

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 chairman and Dr. Sampson of Smith College as secretary. At the request of the chairman, Dr. McClung stated

schedules, and to supply them with adequate equipment that they may be encouraged to continue their own research and interest undergraduates now realized by those interested in plan of betterment of the academic life in colleges is one of the order.

action on the part of a group within a college, such as the Research Committee at Oberlin, or on the part of representatives from colleges at the conferences already held will both serve to emphasize the importance of the movement to the chairman of the division of Educational Relations of the National Research Council, and may hasten the appointment of a references held in Washington in December 1924 and March 1925, owe their origin to the enthusiasm for research and initiative of Dr. Maynard Metaloff and to the realization by individuals and by institutions of the necessity of encouraging research in American colleges.

At the first conference, which fourteen representatives of ten institutions attended, factors militating against research and methods of facilitating research were outlined. The possibility of forming a national organization was discussed and a project. This committee, consisting of C. E. McClung, Professor of Zoology of the University of Penn-

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CZECHO-SLOVAKIAN MINISTER HERE

Masaryk (nee Frances Crane) the constant negative accelerarecently arrived at Woods Hole 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 Juniper Point before the canoe before returning to London.

ber of the collecting crew, suf- a hundred yards was in order, Mr. Daniel C. Healy, a memfered 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 afternoon 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 The Czecho-Slovakian Minis- under adverse conditions was ter to the Court of St. James, clearly demonstrated on Sunday M. Jan. Masaryk, with Mme. afternoon. It is believed that tion of the craft was responsible for the decision of Capt. S. that from Prague, where they had there were other spots just as

> two friends who arrived off 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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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

The Progress of Science: Electric Farming; A Queer Kettle; Professor 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 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. on the last voyage of the Arc-If any irregularities are observed by the inspector he at once nesday evenings at the Elizabeth notifies the secretary who noti- Theatre. Laboratory workers fies the owner. In this way many heavy losses have been averted. viewing directly many of the The inspector has frequently things that Dr. Fish has told us 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 factor 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 year.

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 associa-

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 technique, etc., will be glad to receive and publish short contriwhat are known as contributing butions of interest to the promembers. The rest, all-year-fession under the name of the round residents of Woods Hole, contributer. The Reagent News are known as non-contributing though a small paper reaches members and do not share the 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 turus are being shown on Wedthus have the opportunity of

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OUR NEW ROTARY MICROSCOPE NO. 815

SPENCER LENS COMPANY

BUFFALO, N. Y.

Woods Hole Conference

(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 successful operation of such committees in universities was described by Proin universities was described by Professor 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 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 terrory appropriate properties. toward promoting research. Dr. Hogue and Dr. Collett spoke in favor of obtaining a representative from the National Research Council from the National Research Council to stimulate college faculties to engage in research; of the policy of consultation trips from colleges to universities; of exchange of instructors 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

2. That it favors the plan of the Division of Educational Relations of the National Research Council to appoint a representative to visit colleges to discuss the promotion of research.

It was voted to request the National Research Council to finance the sending 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 statements to this effect to the National Research Council.

It was generally agreed that the following procedure might best be followed: the creation of research committees in colleges to promote research 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 committee, elected by liaison members to act for them in aiding research.

It was voted that the chairman of the Woods Hole Conference call another meeting at his discretion, with the expectation that research committees may be established in some colleges within the coming year which could send liaison members to such

Patronize Our Advertisers

LABORATORY MEMBERS DEPART

A list of people who have been eating at the Mess and have left town since last Friday is given

Paul Beaver, P. W. Bowman, S. C. Paul Beaver, P. W. Bowman, S. C. Brooks, Helen J. Brown, Sidney Britten, C. J. Connolly, Oliver McCoy, 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. Severinghaus. Jack Shultzz, Joseph Taussig, haus, Jack Shultzz, Joseph Taussig, W. R. Taylor, Miss Willard, Ferris Woods, Chao-Fa Wu, Pearl Zeek.

The International Congress of Physiology opened a five-day session at Stockholm on August 1 under the presidency of Professor J. E. Johansson. There were 567 delegates in attendance, the United States and Germany sending 100 each, and France and England 40 each.

The heading "Gravity" of the first editorial has a double significance which perhaps may not be immediately obvious to

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

7:00 — 9:30 A. M. 11:00 — 11:30 A. M. 12:00 — 3:30 P. M.

4:30 — 6:50 P. M. 7:30 — 7:50 P. M.

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Thursday, August 19 "SPARROWS"

With Mary Pickford

Friday, August 20 "MY OLD DUTCH"

With Mary McAvoy

Saturday, August 21 "ROLLING HOME"

With Reginald Denny

Monday, August 23

"INTO HER KINGDOM"

With Corinne Griffiths

Tuesday, August 24 "MAN TRAPPED"

With Clara Bow

Wednesday, August 25 "The BLACK PIRATE"

With Douglas Fairbanks

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VOL. 1. NO. 6

WOODS HOLE, MASS., THURSDAY, AUGUST 26

TEN CENTS

TOWN TOPICS

Marjorie Veeder 1905-1926

great shock to everyone, and to those who knew her in her work in the library is especially her enjoyed her brightness and her friendliness, and all feel the deepest sympathy for her parents and her family.

We are very sorry to hear of the unfortunate accident that 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. The control of the collision was unavoidable. The control of the con

gratulations to Mr. W. O. Luscombe, who celebrated his 75th ducted on a trip by steamer birthday at his home on Nobska some 60 miles up the Essequibo Road, Thursday, August 19th. A dinner party was given him by his immediate family, and a taken to the laboratory three large, lighted birthday cake was ceremoniously brought in by his Views were the and Betsy Luscombe. A recepmystery of the "great bush"
tion was given him later in the itself, the streams, the Indians tion was given him later in the itself, the streams, the Indians, afternoon by his numerous their villages, their primitive friends. The house was prettily decorated for the occasion, and which were perfect in detail. decorated for the occasion, and which were perfect in detail, and complete in story. He received many gifts, among which was a beautiful young mare, given by his wife and his

(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 Miss Marjorie Veeder's sud- Friday, August the 13th, was a den death on Tuesday is a fortunate one for the laboratory workers and others who were privileged to hear a most interesting lecture given by Dr. H. D. hard. Miss Veeder had been assisting in the library since University of Pittsburgh, enNovember, 1925. Everyone titled "Biology Students in British Guiana." The Laboratory of Tropical Biology has been operated during the summer of 1924, 1925 and 1926 at Kartabo, British Guiana, under the supervision of Dr. Fish and British Isles. members of the staff.

The idea at Kartabo has been to provide opportunity and ina 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 mignty Mazaruni and 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 south and west, probably the office and his car stalled on the most extensive and little known

He is reported in a serious con-dees 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 sprinkling of English, Portu-We extend our heartiest consional aboriginal red skin.

Views were then shown of the two small grandchildren, Anita jungle trails, the tangle and

More than 100 slides of animals were shown including those 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 sheet of water about two miles happened August 20th to Gil-spiration for students of tropibert Denham of Falmouth, when cal biology, and for this purpose and it seemed to King Charles a delivery truck driven by him it is unusually small that the spirit of Plymouth town, and it seemed to King Charles 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.	
Sept.	7 5:12 A.M.
Sept.	8 6:00 A.M.
Sept.	9 6:28 A.M.
Sept.	11 7:14 A.M.
Sept.	11 7:49 A.M.
	12 8:26 A.M.
Sept.	
Sept.	13 9:14 A.M.
Sept.	14 9:58 A.M.
Sept.	1510:41 A.M.

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

grims leave Devon was part of square surrounded on three sides by land, and to the south 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 applications 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 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 O Nurse! Can we take off our exposure of infants to the direct rays clothes? of the sun is considered to have pernicious influence on adult minds. It 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, conbe 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 efforts we can see that there are objection ourselves, buttwo groups on the sand, which 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. now and then peering out from clothes. behind a beach-plum tree.

First Wild Wife: My husband is a specialist on the therapeutic value of sun's rays on the human body. He says the rays do more good than all the pink pills Lydia Pinkham ever thought about. My boy Hank has never been sick a day in his every day.

my little Jack of a bad attack Curtain. 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 evening. 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.

We're all dressed up all the livelong day

With stiff white suits and hair here. in bows,

We can't have any fun this way 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, you, who do you think you are, 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, fusion and lack of order seem to 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 clothes; and they like it a lot better; and we haven't any

Naked Babes: Daddy! What's can be roughly classified as the 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 The Chief of Police can be seen each other naked. Put on your

> Naked Babes: Oh, we know now what sex and shame are.

Their frank and unashamed glances turn furtive and abashed; they turn their backs on one another and without taking the time to put clothes on, burrow rapidly out of sight in the sand. The Wives and Husbands call loudly for the Stage Director to life, and he gets a long sun-bath dig them out; but as he belongs to the Quahaug Diggers' Union, Second Wild Wife: I cured he has quit at five o'clock.

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.

Dr. Fred Stewart, Assistant in Bacteriology at the Rockefeller Institute, has been visiting Woods Hole for the past in week.

of the Harvard Medical School THE JUNGLES OF 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 Day.

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 Newfoundland. 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 Mr. Harold L. Weatherford Point in the background.

BRITISH GUIANA

V-Wake far trailing, off southward we're sailing
Toward the Carribean Sea.

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 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 phosphorous light;

Life-flares in waters that lean! 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

Gulls craning necks o'er our stern.

Dolphins, abreast of the bow-wave's swift crest, olling and turning and jumping Rolling and

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! 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. 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 of Dr. and Madam Galtsoff, and touring, taking an automobile 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 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 be studied effectively if observations are made continually over long stretches of time; such, for the war, but it now accounts for

Problems of strict industrial station. 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. both serve as clearing houses for fundamental significance rather The majority of the material is active biological research, and about twenty-five attended the than those of immediate applicability. The field covered by these investigations is very wide and can only be described Halcyon, also a large motor boat briefly. They include: factors and a sailing boat for work Woods Hole brings one in coninfluencing the growth of dia-within the sound. The boats are tact with almost every aspect of toms, Dr. E. J. Allen; bionomics well fitted with the usual gear, American biology, far more so toms, Dr. E. J. Allen; bionomics well fitted with the usual gear, American biology, far more so ists in an open forum, in the and pathology of the oyster, Dr. including otter trawls, dredges, than would a visit to any other course of which it was suggest-J. H. Orton; seasonal changes nets, and such strange apparin 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 of the staff. growth and hence control the whole marine food supply, Dr. richest in England. Apart from W. R. G. Atkins and W. H. Harvey; quantitative plankton fauna, many Arctic forms reach distribution, F. S. 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 have as usual to put up with it Compared with Woods Hole the meeting representatives from all —Dr. M. V. Lebour. Animal Plymouth fauna is very interest-communities on the sea floor, O. ing, for it is in many ways com-D. Hunt. The genetics of Gamplementary. Limulus, alas! is marus—quite a marine Drosophila—Mrs. E. W. Sexton; herrancestor of the true Briton).

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 year. The increase is largely partment for general physiology and experimental biology with March to June and (2) the end quite adequate means for the purchase and upkeep of all the to be attacked which can only necessary apparatus which such a department demands. The department was only formed since example, as the study of sea- fifty per cent of the research sonal variations in the plankton. undertaken by visitors at the olegy.

> Material is collected partly on collected by boat. The laboratory owns a trawler, the S. S. "Salpa", about the size of the

The fauna is certainly the Russell. down to Devonshire by way of last animal eats diatoms, which, of some forms properly belongbeing vastly in the majority ing to the Mediterranean region. ing migrations, E. Ford; game-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 physiology, particularly amoe-boid movement, C. F. A. Pantin. Arbacia and the sand dollar are The majority of this work is replaced by Echinus (E. escupublished in the "Journal of the lentus and E. miliaris) and the Marine Biological Association." Heart urchins (Echinocordium This big range of work has and Spatangus). In passing it 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. noble task of eating everything It is also important in another specifically entitled "edulis" and 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 that are available for work in nomenclature may convert an any field.

This brings us back to laborathe 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 due to the formation of a de- Devonshire. The fauna is at its best at two distinct periods: (1) 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 course in comparative physi-lities for experimentation is so of the M. B. L.

> Although the M. B. A. laboratory has still far to go to reach the size of the M. B. L., yet both this second evil, are a great infulfill a similar function—they centive to study. each one draws investigators not merely from one institution his words with skillfully prealone but from all over their respective countries. A visit to single institution. 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 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 wel-

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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 opportunolegy. The classes are, how-neglected by scientists, declar-ever, much smaller than those ing that the destruction to plants and the diseases to humans which nematodes cause although little is yet known about

An interested audience of lecture. Dr. Cobb illustrated pared colored slides and blackboard sketches. At the close of the address he invited the comments and questions of zoolog-Plymouth ed that the general lack of intermay now be said to have taken est in nematology might be accounted for by the ignorance among students of the proper use of the microscope and of invertebrate zoology in general.

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

Aug. 26, 1926 Vol. 1. No. 6

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Research In Biology

in life with a definite purpose. It wants to report facts and news convinced that we can meet our of interest, to forward scientific publication expenses next sum- interested in the laboratory and research, and it wants to foster mer by charging five cents a actually win a high place in the and encourage that indefinable copy for our little bulletin. But "something" which for want of we shall maintain our present a better name is sometime called charge of ten cents; and half of The atmosphere of research, in-copies will be turned over to the formality and goodwill here is proposed Scholarship Fund. unique and precious. It is as much a part of the institution volunteered a sizable sum could as are the buildings and equip- be accumulated before the end as are the buildings and equipment on the grounds of the
laboratory. It is the essence
of the laboratory, and if
the latter has a soul, this "someconsider it a privilege to forthing" is it! Our little weekly ward scientific work in such a dedicates itself to the forwarding the objects of the Marine Biological Laboratory.

To us it seems that one has not known life to its full extent until 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 propositions to a seemed by the architect on seed by the architect of the results of the work of Miss Nancy Wilson and Miss Hubner, who played with such authority and skill of them are and printed in excerable to who would be guilty of forth by Mrs. Murray Crane's musical of last week. Here was a most sincere effort. The audi-forth by Mrs. Murray Crane's musical of last week. Here was a most sincere effort. The audi-forth by Mrs. Murray Crane's architect

Those of us who have been warding biological research.

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 and the laboratory increases by leaps and bounds. It knows no limit!

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 under consideration; and to this to undertake a campaign to raise money for a Research Scholar-"spirit of the laboratory", the proceeds from the sale of

Even if no external aid was

striking manner.

On another page Dr. Pantin, who is the resident staff mem-To be associated with the ber in physiology at the Ply-Marine Biological Laboratory is mouth laboratory, points out the a privilege, an honor and a de-possibilities of making an arfinite responsibility. There is no rangement whereby there might place on earth where so many be a free interchange of investifine people gather—united by gators between the Marine Biothe common purpose of forward-logical Laboratory Association ing research in the biological at Plymouth, England, and our done. sciences—to understanding the own laboratory. The question sciences—to understanding the own laboratory. The question ground, where all of this diverse living organism and its behavior of funds may at first seem to present a formidable barrier, in all its aspects and phases. It present a formidable barrier, in mutual appreciation of asis a worthy aim, and the joy but probably we can provide in mutual appreciation of as-and intense satisfaction of money to pay the traveling expects of the imagination and of wresting from Nature its carpenses of our investigators who thought which in some manner fully guarded secrets can be ap- would be selected to go to Plypreciated only by those who are mouth. It is hoped that funds interest, and may serve as efactually engaged in research, can be obtained in England fective stimuli to higher achieve-

business propositions to at good with, and to both laboratories con-business man; greater than that benefit both laboratories con-sensed by the architect on see- cerned in innumerable ways. Theme and accompaniment sang the lecture room. It is not possible to cast all the blame upon the architect on see- cerned in innumerable ways. ing before him his dreams and The plan is a worthy one and true and beautiful, as is only true and beautiful, as is only plans as a permanent monument it deserves the hearty support possible at the hands of trained teach's shoulders. There are too many possible at the hands of trained po

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, end The Collecting Net is going near by, students of philosophy, engineering, or medical specialties. College presidents, politiship Fund which will be initiated cal economists, publishers, jourat the beginning of the season nalists, artists, musicians: all "The Collecting Net" started in 1927. After a careful study seem to belong. Even some of the financial situation we are convinced that we can meet our owners of large places become esteem of the biologists by their sincere efforts to help in some wav.

> 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 art and music which he brought flections are aroused. Wonder at the and stimulus. It was a wonderful experience to hear the Russian Choir on the lawn, with its True. The whole community profited immensely by the way this was

are sure to touch each special

was grouped with a historical

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 assemblies 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":

Corey, H. Irene, res. asst. to Dr. McClung, Pennsylvania, Br.

To the Editor of the Collecting Net:

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 learning passess so many men of high learning possess so many men of high scientific attainment, of so high an order of individual integrity and not least, so noble a capacity for making material sacrifices in the cause of Intellectual Progress.

here for our mutual enjoyment almost universal ignoring of the first principles of Art to which these men have presumably dedicated their lives. These men are students of science. There are, granted, a few interpretation of old Russia and the character of a great people.

The whole community profited majority surely are drawing their salaries as teachers of Youth; yet they seem to have taken no thought whatever of making themselves audible to their audience. Few of these men but would laugh at the most learned scientist who could not present the results of his labors in clear cogent English (or some other language!) All will be inclined to agree, I fancy, with Harvey Robinson's belief that a lack of clarity in expression is at bottom only a lack of clarity in thought. Yet, frequent-ly, to their students they are worse than obscure. They are unheard.

THE SEA URCHIN

IT PRICKS WITHOUT DISCRIMINATION

That Weighty Problem



We were shocked beyond measure last Sunday morning when an exhaustive search failed to reveal that classic book on evolution—the Holy Bible—in what is supposed to be one of the finest libraries of its kind in the world. The situation was untenable. It could not be allowed to stand.

Fortunately the Trustees of sure under which they lived the laboratory saw fit to severe-would be accompanied by such Fortunately the Trustees of ly censor the Librarian at a special meeting on Tuesday afternoon called for that pur-pose. The Editorial Staff wish to commend the Trustees for in relieving the situation.

the Fish Commission Wharf for seizes another fish usually inrepairs. It seems to have with- habiting a depth of between 300 collecting trips and course pic-nics of the summer. A sad blow ries the attacking fish out of its

individuals concerned accounted for the repetition in our last issue of a note in this column surface, which they reach in which had appeared a week predead or dying condition. Speciviously!!

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 Nereis-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 conditions. 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 the specimens were picked up floating on the surface of the water, having met their deaths while engaged in digesting or swallowing fish not much inferior or even superior in size to themselves.

The first peculiarity was accounted for by the fact that if those fishes really inhabited the great depths supposed, their removal from the enormous presand expansion of the gases within their tissues as to rupture them and to cause a separation of the parts which had been held together by the pressure. their prompt and efficient action The second circumstance is explained by the fact that a fish organized to live at a depth of The Cayadetta is docked at between 500 and 800 fathoms stood successfully all the various and 500 fathoms. The latter was dealt, it appears, by the depth into a higher stratum, rigors of the Investigators' where the diminished pressure causes such an expansion of A petition signed by the two gases as to make the destroyer

found and therefore occurrences Lecture Given by Miss Jeffers of the kind must happen very

in their, range, consequently, Jeffers, last Thursday evening, physical conditions of the depths was appreciated by a large audiof the ocean must be the same ence. Miss Jeffers lectures with or nearly the same all over the case and her ready wit enlivens 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 Jefwere made during the voyage of H. M. S. "Challenger". These results showed that deep - sea Tuesday evening Aug. 24th, results showed that deep-sea fishes inhabited the strata from 200 fathoms, as the Melamphaes, to 2650 fathoms, as the Coryphaenoides filicauda.

Inese many trips.

Tuesday evening Aug. 24th, at 8 o'clock, in the M. B. L. lecture hall, Miss Jeffers lectures on "Romola"—this is followed 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.

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TOWN TOPICS

(Continued from Page 1)

The recent death of Madison Edwards, chaplain of Sea-mans 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 is being organized under the 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 Linton was elected president. 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 con-nected 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 Monday, August 30, at 8:30

A Woods Hole choral society 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

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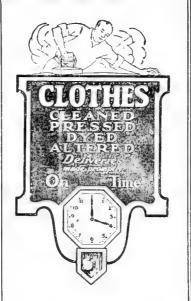
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Juniper Point Players present Eugene O'Neil's "Bound East for Cardiff"; Collin Clements' "Pierrot in Paris"; Stark Ycung's "The Twilight Saint."

M. B. L. Auditorium, Woods Hole, Monday, August 30, 1926, 8.30 P. M. Tickets from Miss Spalding and Dr. Ellsworth.

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THE SCIENTIFIC 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; Professor Lucien Gallois; Variation of the Sun's Heat.

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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 Sally Chostney, Mrs. J. Hoatzins were of special inter-

shudder A 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. Bewick, Dr. W. C. Bullington, Virginia Burke, Miss E. L. Burritt, L. H. Button, Jack Cattell, Christie, L. B. Clark, Elsie Cline, L. J. Cole, Mrs. N. C. Curtis, W. Duryee, Helen Dyer, Mr. and Mrs. H. T. Folger, G. M. Franke, E. Gabritshevsky, Madeline Geanb, Mr. and Mrs. R. P. Hance, Mabel Hedge, Mr. Kline, E. Mentz, Eleanor Mitchell, William H. Mitchell, Mrs. 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

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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.

We announced and exhibited for the first time an entirely new line of apochromatic objectives. We are very proud of these objectives 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:

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160	1.5 mm.	1.30	90.00
161	3 mm.	1.30	69.00
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We also are offering a 3 mm. water immersion achromatic objective 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 attention. 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 unequaled stereoscopic vision, the new fork type substage and many other older standard instruments received their full share of attentions.

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Commonwealth of Massachu- 540 M 58. setts 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 Massachuthis period must secure both on Great Ledge. The yacht was types of license. types of license.

no motor vehicle can be regis- carrying five passengers, and 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 implied consent", as well as when he himself is operating.

KAIETEUR

Amber torrents pouring, diving,— Snow-white fern-tips sinking, dropping,
lling shooting,

Falling, shooting, pounding, bounding, Roaring, spraying, spreading, floating!

Swirling mist-clouds darting, leaping, Hazy vapours cloaking, drench-

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The following books have been lost from the library during the summer. The librarian would be grateful if they could be located.

- Persons keeping cars in the Physical and Colloidal Chemistry
 - McClendon and Medes: Physical Chemistry in Biology and Medicine. 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 ressetts cars. Persons staying over cue of a yacht which had run Geo. L. DeBlois of Marblehead. Beginning January first next She was headed for Nantucket, ed her into the harbor where she anchored. No damage was done.

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Copy could not be obtained before going The schedule for which this space was reserved will be found posted at the Mess and at the Main Bulletin Board in the Brick Building.

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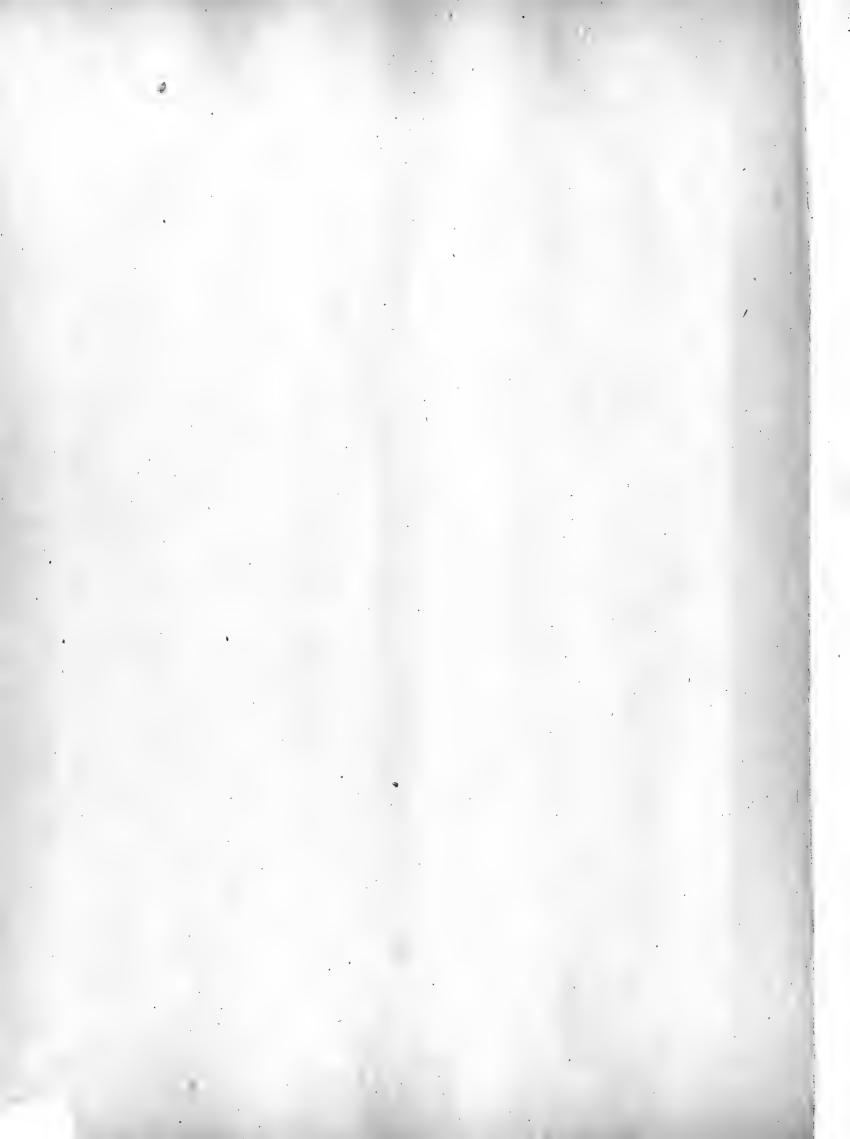
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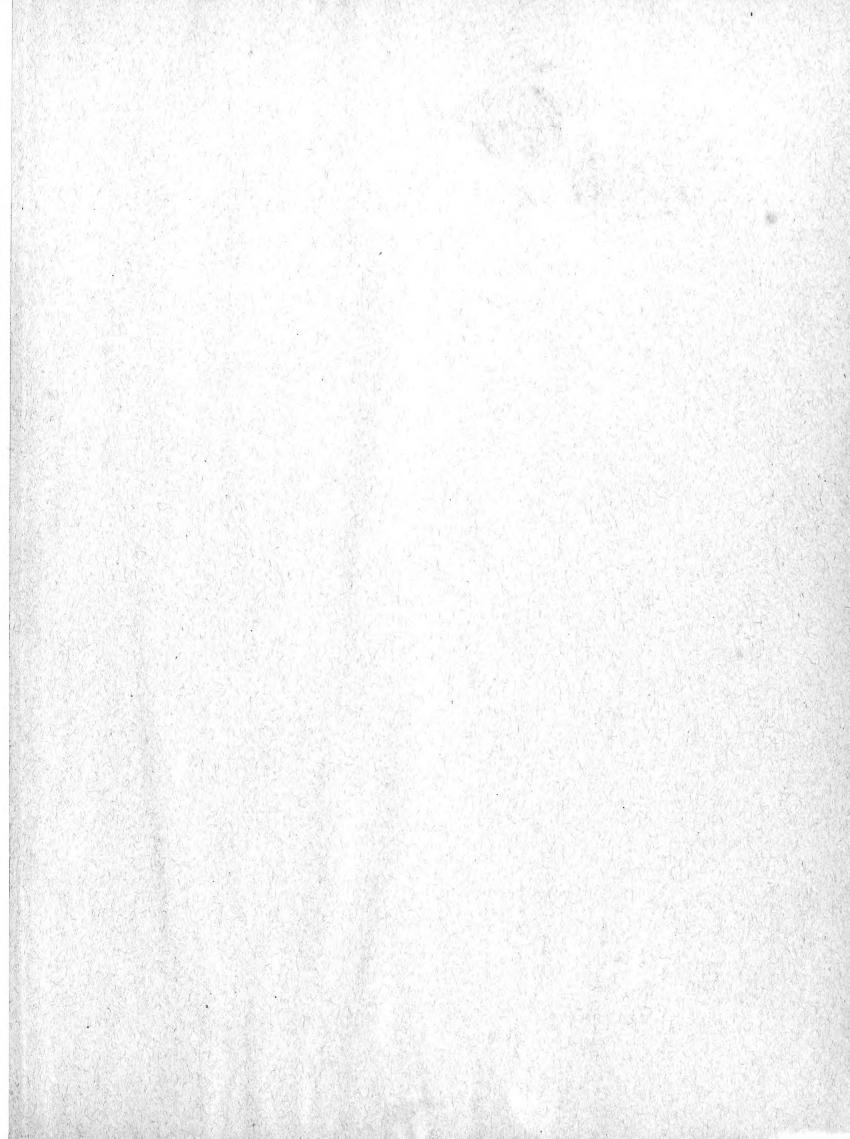
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