

ing the Gap Between School and College.

Write for a copy to The Fund for The Advancement of Education, 575 Madison Ave., New York 22, N. Y.

Denoyer-Geppert's Dr. Frank Kittner supplied free plates, paper, and printing for 16,000 NABT spring membership campaign folders? Visiting biologists and elementary teachers in the Chicago area should contact Dr. Kittner for a most interesting tour of their plant at 5255 Ravenswood Ave.

William Gamble, of Ward's Nat. Sc. Establishment, Inc., Rochester, N. Y., prepared 25,000 NABT winter campaign membership folders, and has offered cooperation again in the same way? Ward's publish a most interesting *News Letter*. Bill spent his "vacation" in Maine supervising the collecting of dogfish for fall orders.

Pres. Blair Coursen, of Gen. Biol. Supply House, 761-763 E. 69th Place, Chicago 37, is a staunch supporter of and contributor to many NABT activities? Do you receive their *Turtox News*? If not, write for it.

Harvard Apparatus Co., Dover, Mass., can supply almost any type of biological apparatus you may need? A recent letter from Pres. A. J. Carlson of this educational non-profit organization urges that teachers write to him about items not carried on their list, items worthy of improvement or replacement, and ideas and needs for simple apparatus for the training of beginners in science. You elementary teachers of life science and nature study, particularly, should follow-through.

William Noonan, extended day program student at Chicago Teachers College, won the prize of a year's subscription to ABT which was offered personally by Managing Editor Beuschlein for the best title for our Classified Ads column. Bill's winning entry was **BIO-BUY-LINES**.

NABT member Charles Walcott, 81 Sparks St., Cambridge 36, Mass., would like suggestions from teachers about their needs for reasonable color slides of insects and other life subjects. Charles contributed some fine photos for ABT cover illustrations. **New England Biological Ass'n members,** particularly, should make use of his outstanding photographic skills; he is writing an ABT article on the preparation of color slides for teaching.

NABT cooperated with AIBS in their recent annual meetings at Madison, Wisconsin?

Bro. H. Charles, St. Mary's College, Winona, Minn., Chairman of our **Committee on Affiliates,** wants live news of activities and people in local life science teaching and research groups for a "With Our Affiliates" column. If your local group is not affiliated with NABT, write him for details, and check constitutional changes regarding affiliates elsewhere in this issue. We need you, and we modestly feel that you need us!

Among the many letters of congratulations received—

Dear Mr. Vance:

We have just been informed that you are the new Editor of *The American Biology Teacher*, and would like to take this opportunity to wish you personally the best of luck and success in your new position.

With regard to *The American Biology Teacher*, needless to say we think this is truly a wonderful magazine. We have noted with great pleasure the tremendous strides and progress which have been made, and we are confident that the future will bring even more worthwhile gains to this excellent publication.

Once again, with our very best wishes, we remain

Sincerely yours,

WOLF WIRGIN,
Exakta Camera Company

President's Message

During the past year our Journal has taken on illustrated covers and a more attractive format. It has been greeted by favorable responses from members, institutions, and advertisers, who recognize that it has a special function to perform for American education. Unfortunately publication costs, which comprise the part of our Association's expenses, have risen sharply. This has entailed an increase in annual dues to \$3.75, effective Oct. 1, 1953.

Members are urged to take an active part in the work of our Association. Your Editor is always looking for practical articles for publication. Good cover photos are welcomed. Your President will welcome your suggestions and criticisms. At present there is need for volunteers to work on the Health and Audio-Visual Education Committees. If you are interested in stimulating your local science organization, write to Bro. H. Charles, St. Mary's College, Winona, Minn., for details on how it can affiliate with The National Association of Biology Teachers.

LEO F. HADSALL, *President*

LETTERS

My dear Mr. Breukelman:

At a recent meeting of the New England Biological Association, the members requested that I write you a letter, stating that they liked the Table of Contents on the outside where it always has been. They suggested that the picture could be inside or, if more people preferred the picture on the outside,

perhaps the Table of Contents could be printed on the outside of the back page. It was brought out that teachers are interested in the contents of the publication, and since they have a limited time for reading, they like to pick it up, and quickly scan the titles of the articles, without wasting time turning pages.

Sincerely yours,

MABEL A. POTTER, *Secretary,*
New England Biological Association

EDITOR'S NOTE: This is the second time the above suggestion about the Table of Contents has come to the editor. The other letter came from an individual. This one represents a large group. In general, the idea of a picture on the front cover has received a fine response. The back cover is a choice advertising spot; this is the reason it was not considered by the Editorial Board. There is a possibility of both a picture and the table of contents on the front page, but the type has to be small, and the general effect is one of crowding. The Editorial Board, in making its decision, thought the Table of Contents would be almost as easy to find if placed near the front and in the same place in all issues. What do you think? Let us hear from more of you, if this is an important point.

Dear Mrs. Beuschlein:

We greatly appreciate receiving the names of those interested in receiving our literature. This service has never been offered by any other publication and, I must repeat, we do appreciate it and will be pleased to place our advertising with you in the future.

Sincerely yours,

JAMES MCINNIS, *Manager, Supply Dept.,*
Marine Biological Laboratory,
Woods Hole, Mass.

Dear Sir:

For some time I have been wanting to tell you how pleased I am with the articles in this year's *The American Biology Teacher*. . . . The articles that were of special note were: Biology Majors and Industrial Biology, Gering and Kliewer, and What to Look for in a Science Teacher, B. H. Carleton, both in the November issue; The Use of Drawings in General Zoology, Greb, in the January issue; The General Education Type of Biology Course, Miller, in the February issue, and A Comparative Study of Objectives, Content, and Methodology of Introductory Courses in Zoology, Lutz, in March.

As a teacher of General Biology for college freshmen, I found all of these articles timely, helpful, and stimulating, and wish to thank you for bringing such help to us.

Very sincerely yours,

SISTER MARY AQUINA, C.S.C.,
Dunbarton College of Holy Cross,
Washington, D. C.

Dear Dr. Breukelman:

I am enclosing a list of laboratory demonstrations in Biology for junior and senior high school students. These demonstrations are being arranged by the staff and major students in Biology of Elmira College for a meeting of the New York State Science Teachers Association—Southern Zone—to be held at Elmira College, October 2, 1953.

There will be a student hostess for every one or two demonstrations. It will be her responsibility to keep the demonstrations in order and to answer questions. By each demonstration that represents a procedure there will be mimeographed detailed instructions for guests to take away.

The titles of the demonstrations might be of interest to the readers of *The American Biology Teacher*.

Yours sincerely,

LYDIA BOURNE WALSH,
Chairman, Division of Natural Sciences,
Elmira College, Elmira, New York

LABORATORY DEMONSTRATIONS IN BIOLOGY

(arranged for New York State Science
Teachers Association—Southern
Zone—at Elmira College,
October 2, 1953)

Field Trips

1. Collection of fossils
2. Recording of birds seen
3. Habitat study (a diorama)
4. Salamanders for vivarium
5. Records of bird songs
6. Collection of bird nests
7. Insect demonstration

Aquaria

1. Balanced fresh water aquarium with guppies
2. Marine aquarium

Genetics

1. *Drosophila*, parent generation; F_1 generation; F_2 generation
2. Sorghum, F_2 generation of green \times albino

Permanent Microscopic Mounts

Made Without a Microtome

1. Blood smears
2. Free-hand sections of elderberry pith
3. Mounts of onion epidermis
4. Mounts of algae and fungi
5. Maceration of wood
6. Free-hand sections of herbaceous stems

Embryology

1. Stages in development of chick
2. Whole mount of chick

Physiology

1. Spirometer for vital capacity
2. Streaming of cytoplasm in *Elodea*
3. Microscopic mount of India ink and water to demonstrate Brownian movement
4. Gas formation by yeasts growing in sugar solution in a fermentation tube
5. Muscle sounds heard with stethoscope
6. Circulation in foot of live frog

7. Tests for starch, fat, glucose, protein on beans, corn, potato and onion
8. Digestion of starch
9. Absorption of water by root
10. Osmosis when membrane is a closed one (egg)
11. Effect of cuticle (apple) and bark (potato) upon rate of transpiration

Soil

1. Air in soil
2. Water-holding capacity of soil
3. Root systems penetrating soil

Fruits

1. Types of fruits
2. Fruit dispersal

Health

1. Effect of sterilization, pasteurization, and storage temperature upon milk
2. Petri dishes of nutrient agar exposed to everyday objects
3. Removal of a colored bacterium from hands by washing hands different way

Clay Modeling of mitosis, meiosis, earthworm**Garden Design** of colored renderings and planting plans of garden designs (entrance to a property, foundation planting of a house outdoor living room)

Gentlemen:

The writer has had a long experience with over one half century with magazines devoted to human betterment. . . . He is profoundly convinced that the value of at least one cover illustration such as in your March number adds to the attractiveness thereof. . . . "One picture is worth a thousand words."

May I contribute to NABT the widow's mite toward the future expense of such front page illustrations.

Very earnestly,

C. M. GOETHE,
Sacramento, California

EDITOR'S NOTE: Attached to this letter was a check for considerably more than the cost of a cover picture. Thank you, Dr. Goethe!

Dear Sir:

Will you risk publication of some comments that to some may seem political? Writing in May for your October issue, I none-the-less feel sure the following matter will still be of interest to biologists: let us hope so, anyway!

The so-called "Tidelands Oil" controversy has been settled. But for some of us this matter will never have been settled until the nation as a whole receives benefit from its offshore petroleum property. While the "extended debate for educational purposes" was going on, in March and April, I wrote to several conservationists, whom I expected to be as alarmed as I was, urging them to protest. These people seemed not to be interested. In effect they said, "This is a political matter, and somewhat confusing to boot. What has it to do with us?"

I would suggest not the obvious reply that conservation is broad enough to reach beyond fish and game to forests, grazing lands, mountain scenery and even (dare I add?) human resources; but rather I would point to the fact that the same interests whose political activities have snatched untold wealth in petroleum from the public domain may not be expected to keep hands off other national resources. For surely we know enough of the persistent and powerful lobbies for private control of public power, private exploitation of public grazing lands, and private removal of public forests, not to suppose that the Tidelands Bill has greatly encouraged these interests. Should conservationists be content with consuming whatever fragment of the public domain is left to us after individual avarice has been appeased? . . .

Perhaps we cannot retrieve what our Congress has so generously given away for us. But at least our protest, if made often and strongly, may arrest a trend; a trend toward similar disposal of other public property—parks and forests, even fisheries and game.

Sincerely yours,

ARTHUR W. JONES,
*Assoc. Prof. of Zoology,
Univ. of Tennessee, Knoxville*

AUDIO-VISUAL NEWS

. . . The popular 78 rpm record albums of bird songs produced through the facilities of Cornell University (AMERICAN BIRD SONGS, Vol. 1 & Vol. 2) soon should be available in 33-1/3 and 45 rpm speeds.

. . . Many enthusiastic listeners who heard the intermission program of bird songs during the Nov. 30, 1952 broadcast of the New York Philharmonic Symphony Orchestra now own the delightful 10 inch, 33-1/3 rpm record, MUSIC AND BIRD SONGS. Also produced at Cornell, this recording emphasizes the high musical qualities of bird and frog sounds. It may be purchased from Comstock Publishing Associates, 124 Roberts Place, Ithaca, N. Y.

. . . The manufacture of antibiotics provides the subject for a new 25-minute black & white film, ". . . AND THE EARTH SHALL GIVE BACK LIFE." Photographed by Louis de Rochemont and containing views taken through an electron microscope, the film may be obtained for group showings from E. R. Squibb & Sons, 745 Fifth Avenue, New York 22, N. Y.

. . . Magnetic sound movie makers will be interested in a new publication, PIONEER TRACKS, which is designed to serve as an exchange medium for ideas and experiences in magnetic sound recording. If you would like to receive subsequent issues, send your request to Bell & Howell Company, 7100 McCormick Road, Chicago 45, Ill.