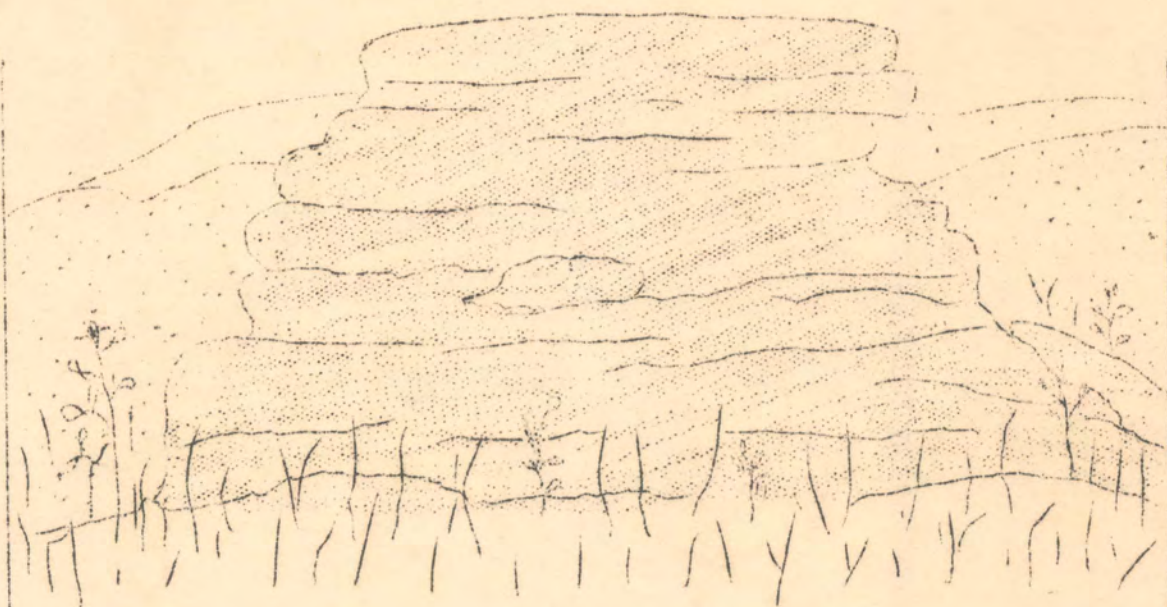


MOUNTAIN LAKE ECHOES

VOLUME 13, 1950



FROM BALD KNOB'S LOFTY
SUMMIT, THE LAKE AND
GLENS AROUND, COME
CHRISTMAS GREETINGS
AND BEST WISHES FOR A
HAPPY NEW YEAR



THE MOUNTAIN LAKE ECHOES 1950

Editor: Perry C. Holt

To all Mountain Lakers: Greetings! One of us, as has been the custom for some time now, yearly has the pleasure and duty of editing the Journal that serves as Christmas greetings to all recent denizens of Salt Pond Mountain and as a summary of the year's activities at the Mountain Lake Biological Station of the University of Virginia. Your present editor is so by virtue of his penchant for standing on the dining hall porch and taking part in any conversations that might develop. He was thoroughly enjoying one such conversation in which Dr. Lewis and Dr. Reynolds were the chief participants one morning when Dr. Lewis remarked, apropos of nothing, that an editor for the ECHOES should be selected soon. When Dr. Reynolds looked around for a likely candidate everyone else had ducked out of sight except the Holt family. (I might have made it too, but Susie tripped me.) In all seriousness, we are happy to send Season's Greetings to all of you. Our New Year's wish for you is that your memories of Mountain Lake are as pleasant as ours, and that many more summers of happy and profitable work may be yours.

Editor

THE SEASON'S GREETINGS

It is cold and bleak at Mountain Lake now and were you standing on the rocks atop Bald Knob you would feel winter's winds cutting knife-like even through heavy woollens. Fortunately, we do not think of the severe elements there but rather of the work, the fun, the friends we miss so much.

Last summer's personnel consisted of twenty-five staff members and investigators, forty-one students and twenty-five wives and children. Forty-three percent of these were from Virginia and the remainder came from seventeen other states. Forty-five educational institutions were represented.

The courses to be offered next summer probably will consist of the following: Archigoniates, Bacteriology, Entomology, Paleontology, Plant Cytology, Plant Physiology, Protozoology, and Vertebrates. Look for the bulletin in February and if you wish one sent to a friend please let us have his name and address.

Director

Seminars

Life at the Station, as is indicated in the Social Notes and the Sports Column of this and past issues of the ECHOES is pleasant and play forms an important part of Station life, but the Station exists primarily in order that work may be done more efficiently. Informal discussion is always a major part of such work, but unfortunately no records are kept of such discourses. The formal seminars, held weekly in the main auditorium, were varied and of high quality this past summer. The speakers and the titles of their talks are given below.

1. Dr. Royal E. Shanks. Wild Flowers of the Great Smokies. Kodachrome slides.
 2. Dorothy Crandall. The Rockies (Colorado, Wyoming and South Dakota). Kodachrome slides.
 3. Carolyn E. Fix. Glacier National Park, California. Slides and commentary.
 4. Dr. James N. Dent. Some remarks on the effects of radiation.
 5. Robert L. Amy. The effect of beta radiation on the development of Habrobracon juglandis.
 6. Dr. Hiden T. Cox. Ericaceae: plant anatomy as an aid in the study of phylogeny.
 7. Dr. Royal E. Shanks. A summer field course in the Western United States. Slides.
 8. Col. Robert P. Carroll. "Voices in the Night". The Cornell records of frog calls, slides, and comments.
 9. Dr. Bertram W. Wells. The problem of the Carolina Bays.
 10. Dr. Ezra Allen. Types of physiological degeneration in the developing male germ cells of the white rat.
 11. Dr. William B. Cosgrove. Some factors effecting the growth of micro-organisms.
 12. Perry C. Holt. Notes on the genera of the family Branchiobdellidae in the Eastern United States.
 13. Report on Thesis:
 - John E. Davis, Jr. A study of the subcutaneous cysts caused by metacercariae found on fish taken from Big Stony Creek with special reference to occurrence and intensity.
 - Chester A. Mann. Limnological survey of Little Stony Creek with special emphasis on aquatic insects.
 - Gladys Richardson. The family Salticidae.
 - William P. Ferrell. A taxonomic study of Loxogenoides bicolor.
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The institution of Monday evening concerts, featuring the compositions of a variety of composers from Bach to the perpetrators of bebop and an equal variety of orchestras, under the leadership of Dr. Dent and Bill Sibley, was a notable cultural advance, and it is hoped that these concerts will become traditional.

Work of the Investigators

The work of the post-doctoral and student investigators has always been a prominent part of the work of the Station, of at least equal importance with the class work, and the presence of Dr. Lewis, Dr. Wallace, Dr. Allen and others this past summer would seem to augur well for the future of the Station in this respect. The investigators and their problems are listed below.

Dr. Ivey Foreman Lewis, Dean of the University of Virginia, and Lucile Walton, Danville, Virginia. A study of the action on plant tissue of a substance secreted by an aphid (plant louse). ↓

Dr. Ezra Allen, Professor of Biology, John B. Stetson University, DeLand, Florida. The method of normal degeneration of the male germ cells of the rat.

Dr. J. N. Dent, Associate Professor of Biology, University of Virginia. (1) Preliminary study of the staining reactions of protargol in amphibian tissue; (2) Preliminary study of determination of the egg of Habrobracon (constriction technique); (3) Descriptive embryology of Leptodactylus albilabris.

Dr. H. K. Wallace, Professor of Biology, University of Florida. (1) The spiders of the Mountain Lake Region; (2) Studies on the wolf spiders of the United States; (3) The Cornell-New York State Museum collections.

Perry C. Holt, Assistant Professor of Biology, East Tennessee State College. Morphological and taxonomic studies in the family Branchiobdellidae.

Maggie Thurman, Miller School of Biology, University of Virginia. Phylogenetic studies, based on the structure of the xylem, in the holly family.

D. Herman O'Dell, Assistant Professor of Biology, East Tennessee State College. Gall of the wild cherry (Prunus serotina) produced by a mite (Eriophyes padi).

Margaret Walton, Danville, Virginia. Reproductive system of the male of Pseudopolydesmus serratus.

A. J. Sullivan, Department of Botany, University of Missouri. Physiological studies on the myxomycetes.

Robert M. Johns, Department of Botany, University of North Carolina. Taxonomic and hybridity studies in the Asplenium camptosorus complex.

Cornelia A. Tuten, Miller School of Biology, University of Virginia. Ovarian extracts of crayfish.

Walter R. Whitehurst, Medical School, University of Virginia. Respiratory studies on three species of crayfish.

John E. Davis, Jr., Instructor in Biology, Washington and Lee University. A study of the subcutaneous cysts caused by the metacercariae found on fish taken from Big Stony Creek, with special reference to occurrence and intensity.

Chester A. Mann, Winter Haven, Florida. Limnological survey of Little Stony Creek with special emphasis on aquatic insects.

over

William P. Ferrell, Virginia Episcopal School, Lynchburg, Virginia. A taxonomic study of Loxogenoides bicolor.
 Mary Jane Shirley, Miller School of Biology, University of Virginia. A survey of the thecamoebae from bogs in the Mountain Lake Region.
 Raymond C. Pennington, Miller School of Biology, University of Virginia. Regeneration of lenses in Urodeles.

 Things I Remember - Editor

.....wheelbarrows- it was cold at Mountain Lake in 1950.....
 eating- may Mrs. Bates be persuaded to spend many more summers at the Station. I gained a little badly needed weight and others gained weight in spite of firm resolutions.....hikes- and the activities of the Lewis Construction and Road Building Battalion. Yet people continued to get mired down along the Dal Britt Road
tea- those who enjoyed the hospitality of the Misses Walton were most fortunate.....birds- ruffed grouse along the West Virginia Road in the quiet of a Sunday morning and a warblers nest in front of the dining hall.....waiting- those who found that the station wagon was not a cross between a "duck" and a Sherman tank often had us all anxiously awaiting their return.....worms- on the wall, under the microscope, and in my sleep, the pesky worms and I chased each other. I hope the present battle is nearly won, but "still they come" and I am looking forward to many years of warfare with them.....cards- fierce battles of cutthroat canasta were often fought quietly and tensely in the cottages of Shanty Town and I'm sure I'll never forgive a certain Floridian his habit of "going out concealed".....rattlesnakes- the cool unconcern with which Virgie said, "Lucile, there's a rattlesnake", and with which Lucile calmly stepped away from the snake that was lying at her feet.....spiders- digging out spiders in the dark forest at Moonshine Dell by lantern-light.....the bubbling sands of Twin Springs.....the majesty of the Cascades.....the wood lilies and the fringed orchids.....Burkes Garden, the Narrows, the Sleeping Lady.....work and play and companionship and the scurrying sounds that the deermice made in the nights when I was too tired to sleep.....

 The Open House, a tradition of long standing, was held this year on August 4. The various committees did an excellent job of decorating the laboratory and preparing exhibits. Our visitors from the Hotel and from the neighboring towns and institutions appeared to enjoy the occasion, and exhibited considerable interest in the work in progress, particularly that going on in the "Radiation Laboratory" that was too "hot" to open to the public.

Social Notes

Many parties and other features of the purely social life were of an informal character and no records, for which some may heave a sigh of relief, were kept.

Dr. and Mrs. Reynolds gave some thoroughly enjoyed bridge and canasta parties and a party for the class in Cell Morphology. Dr. and Mrs. Wells likewise entertained the class in Plant Ecology. Numerous parties for card playing or just for the fun of talking were held and all the various groups of cottages seemed to have their share. The playing of games that had as their object the tormenting of the uninitiated had quite a rage and the Editor and others became the victims of such games and the source of much fun for those in on the secret. As usual one of the more consistent social activities was the playing of bridge on the porches of Stephen Elliott and Chapman.

The Sunday Sings continued as in the past. The piano, bought in 1949, gave good service after it was dried out. Not to be forgotten in this connection was the Sing held on Castle Rock, following a picnic enjoyed by all Station personnel.

Chester Mann continued to lead in his inimitable fashion the Saturday night square dances, and a high degree of cooperation was achieved between the Station and the Hotel, which alternated in the giving of the dances. Few will forget the pleasure with which Dr. Allen took part in the dances or Dr. Wells' skill. It is to be hoped that Dr. Dent carries out his intention of taking over Chet's job, since Chet's graduation may mean that he will not return as frequently as we could wish.

A birthday party was given for Maggie Thurman by "God's Children" in the dining room.

Sports

Volleyball seemed to lose its once preeminent place among the sports, perhaps Dr. Winchester's absence had some effect. But, nonetheless, quite a few games were played and enjoyed.

Tennis attracted several skilled players and became an audience sport as well. Doubles matches between Jim Dent and Bob Amy opposing Ruffin Jones and Chet Mann probably attracted the most attention the first semester, although Stanley West was able to replace any one of the four who might be absent. H. K. Wallace very ably replaced Dr. Jones the second semester. In addition to these stars, numerous lesser lights had their turn right on down to your Editor and Jack Sullivan. After all somebody had to be beaten.

Croquet, at which Dr. and Mrs. Reynolds excelled, had numerous followers, especially among the drones. It is a matter of record that one harassed investigator went looking for his wife hours after dark, long past the bedtime of little Susie, and found said wife playing croquet with the aid of a flashlight.

Horseshoes, pingpong, badminton were played from time to time, but must be listed with the minor sports.

Swimming was not very popular. Sally Ballamy and the Winchestersters were not at the Station this last summer and no one else is brave enough to take such a shock. Dr. Allen, however, claimed undisputed title to the championship by his feats in the Lake where the water was slightly less cold.

Hiking and bird walks formed an integral part of Station life and had numerous devotees. Dr. Shanks, with his before breakfast hikes, and Miss Nooe, were probably the outstanding bird watchers, though they had stiff competition. Dr. Lewis was the leader of the after dinner hikes and the Lewis Construction and Road Building Battalion became famous for its engineering feats. Fortunately we were able to keep the reports from reaching Blacksburg and did not arouse the jealousy of the V. P. I. engineers.

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Notable among public works projects was the development of the rock garden and the extension of the lawn between Chapman and the Laboratory. The moving of boulders involved much muscular work and the aid of many amateur engineers who aroused no professional jealousies anywhere. Mr Smith always welcomed anyone who wanted to demonstrate his prowess with a grubbing hoe. The natural beauty of the Station will undoubtedly be greatly improved by this very worthwhile project.

The Editor's campaign for "Grass for Shanty Town" was not quite as successful as the "Green Cross" which collected the seeds for the addition to the lawn.

The undergrowth between Le Conte and Clayton was cleaned out, numerous workers being attracted by the rewards offered for their labor- tea and cookies served between the two cottages.

The notable achievement of a tennis court that could be played on, accomplished in '49 still deserves mention, since much additional work was done in '50, and the court is being steadily improved.

The kitchens acquired a new electric stove and a new coffee pot, also a wood and coal shed. We all enjoyed the results.

In the Laboratory the acquisition of a case for the Station's collections of maps was outstanding.

Visitors

Several visitors to the Station contributed much to our enjoyment of the summer's work. The names of some are listed below.

Mr. James Fowler, Philadelphia, Pa.

Mr. and Mrs. Frank Barkley, and Dr. and Mrs. Dalton M. Brown, Johnson City, Tenn.

Dr. and Mrs. Robert Burns, Baltimore, Md.

Dr. H. H. Hobbs, University of Virginia

Gladys Richardson, Jacksonville, Fla.

Edward C. Trivette, Baltimore, Md.

The "Mountain Toppers" of '50

- ✓ Allen, Dr. Ezra, John B. Stetson University, DeLand, Fla.
 ✓ Amy, Mr. and Mrs. Robert L. and family, 13 N. Market Street,
 Selinsgrove, Penn.
 Ayres, Marion A., 123 Powell Road, Springfield, Penn.
 Ball, Virginia Mae, 26 Duff Lane, Bristol, Va.
 Bates, Mrs. Myrtle A., Virginia Episcopal School, Lynchburg, Va.
 Bennett, Robert W., P.O. Box 172, Science Hall, U. of Florida,
 Gainesville, Fla.
 ✓ Brooks, Thomas L., III, Box 216, Virginia Beach, Va.
 Buckland, Charlotte B., 2623 Herschel St., Jacksonville, Fla.
 ✓ Burns, John M., 2115 Kelly Ave., Baltimore 9, Md.
 Carroll, Alice R., Box 613, Lexington, Va.
 Carroll, Col. Robert P., Dept. of Biology, V. M. I., Lexington, Va.
 Carver, Marjorie, Alderman Library, U. of Va., Charlottesville, Va.
 ✓ Cosgrove, Dr. and Mrs. William B., Dept. of Zoology, Univ. of
 Iowa, Iowa City, Iowa.
 ← Cox, Dr. and Mrs. Hiden T., Dept of Biology, V.P.I., Blacksburg, Va.
 ✓ Orandall, Dorothy L., Box 278, Randolph-Macon Woman's College,
 Lynchburg, Va.
 Davidson, Walter Hurley, Rural Retreat, Va.
 Davis, Mr. and Mrs. John E., Jr., Dept. of Biology, Washington and
 Lee Univ., Lexington, Va.
 ✓ Dent, Dr. James Norman, Miller School of Biology, Univ. of Virginia,
 Charlottesville, Va.
 deWitt, Katrine, 12 St. and Ocean Ave., Virginia Beach, Va.
 ✓ Dorsey, Charles L., 3259 Averham Ave., Roanoke, Va.
 ✓ Eurich, Charles R., 40 Oak Lane, Shippensburg, Penn.
 ✓ Farlowe, Vivian, New Church, Va. *Please forward*
 Ferrell, Mr. and Mrs. William P., 1804 Rivermont Ave., Lynchburg, Va.
 ← Finamore, Mr. and Mrs. Frank J. and family, 608 Cabell Ave.,
 Charlottesville, Va.
 Fix, Carolyn E., 1154 Mohawk St., Utica 3, N. Y.
 Groff, William A., 820 S. High St., Harrisonburg, Va.
 Groseclose, Nancy P., Agnes Scott College, Decatur, Ga.
 Harris, Ray E., Shepherdstown, W. Va.
 Holt, Mr. and Mrs. Perry C., and family, Dept. of Biology, East
 Tennessee State College, Johnson City, Tenn.
 ← Jenkins, William Robert, 3931 Omohundro Ave., Norfolk 4, Va.
 Jennings, Mae, Hillsville, Va.
 ✓ Johns, Mr. and Mrs. Ben I., 611 Beverly Drive, Alexandria Va.
 Johns, Robert M., Box 52, Floresville, Texas
 Jones, Dr. and Mrs. E. Ruffin, Jr. and family, Dept. of Biology,
 U. of Florida, Gainesville, Fla.
 ✓ Kiser, Franklin D., 4403 Maury Ave., Norfolk 13, Virginia
 ✓ Leatherman, Anna D., 26 W. 5th St., Lansdale Penn.
 Lewis, Dr. and Mrs. Ivey F., East Lawn, U. of Va., Charlottesville,
 Virginia
 McCormick, Rachel, R. F. D., #2, Fayetteville, N. C.
 Mann, Mr. and Mrs. Chester A., and family, 122 Ave. C, N. E.
 Winter Haven, Fla.

- Moore, John R., 1655 Waco Ave., Birmingham, Ala.
✓ Nooe, Sarah M., 112 Sharpe St., Statesville, N. C.
O'Dell, Daniel Herman, Dept. of Biology, East Tennessee State College, Johnson City, Tenn.
← Osborne, Paul J., Blackwater, Va.
Peightel, William E., Box 268, Martinsburg, Penn.
Pennington, Raymond C., 2520 Kecoughtan Road, Hampton, Va.
Porter, John B., Miller School of Albemarle, Miller School, Va. *Please forward*
Reynolds, Dr. and Mrs. Bruce D., 1702 Burnley Ave., Charlottesville, Virginia
Richards, Walter L., Jr., Apt. D-2, Univ. Gdns., Charlottesville, Va.
Robertson, R. J., Jr., 5330 Powhatan Ave., Norfolk, Va.
Rose, Melvin M., Jamison Road, Luray, Va.
✓ Schein, Martin, School of Hygiene, Johns Hopkins University, 615 N. Wolfe St., Baltimore, Md.
Schubert, Elaine, 305 E. Ponce de Leon Ave., Decatur, Ga.
✓ Shanks, Dr. and Mrs. Royal E. and family, Department of Botany, University of Tennessee, Knoxville, Tenn.
Sheppard, L. B., 573 Wayne Ave., Waynesboro, Va.
Shirley, Mrs. Inez O. 1105 College Drive, Gaffney, S. C.
✓ Shirley, Mary Jane (Mrs. Buck Miller), Box 78, Covington, Va.
✓ Sibley, William Langley, III, 1511 Persinger Road, Roanoke, Va.
Sullivan, A. J., Jr., Botany Dept., Lefevre Hall, University of Missouri, Columbia, Mo.
✓ Suter, Daniel B., Eastern Mennonite College, Harrisonburg, Va.
Tisdale, Dorsey B., III, 3510 Somme Ave., Norfolk 5, Va.
Thurman, Maggie J., Miller School of Biology, University of Virginia, Charlottesville, Virginia
Tuten, Cornelia Anne, Alma, Ga.
Turpin, Miss Edna, 303 N. Allen Ave., Richmond, Virginia
Walton, Lucile, 1116 East Main St., Danville, Va.
Walton, Margaret, 1116 East Main St., Danville, Va.
Wallace, Dr. and Mrs. H. K. and family, Department of Biology, University of Florida, Gainesville, Fla.
✓ Wells, Dr. and Mrs. B. W., Dept. of Botany, State College, Raleigh, North Carolina
✓ West, Mr. and Mrs. Stanley L. and family, Director of Libraries, University of Florida, Gainesville, Fla.
Whitehurst, Walter R., 7 Valley Circle, Charlottesville, Va.