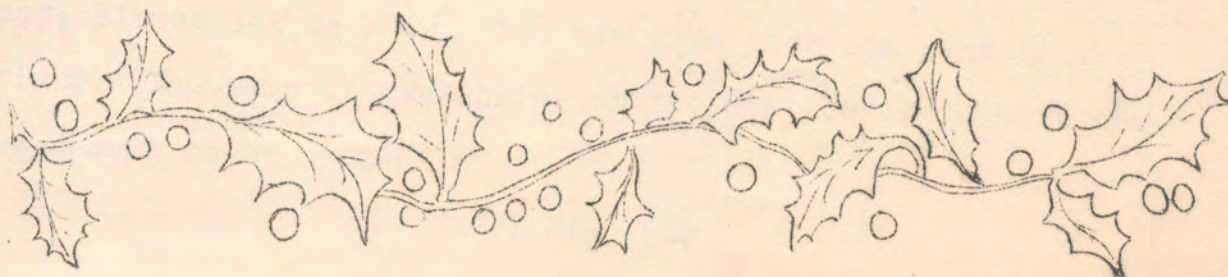


1948

MOUNTAIN  
LAKE  
ECHOES



MAY THE PASSING YEAR LEAVE YOU WITH  
A FEELING OF ACCOMPLISHMENT AND MAY  
YOU GREET THE NEW YEAR WITH A RE-  
SOLVE TO BETTER PAST ACHIEVEMENTS



## CLASS RESUMES

First Term: Col. R. P. Carroll dramatized the invertebrate animal kingdom. Classes were interspersed with field trips on blistered feet to such diverse places as Radford College and Kelly Flats. The more inaccessible places were generally reserved for rainy weather.

Dr. John S. Karling told his group in Mycology about the invisible life stories of the lowly fungi, frequently drawing on the local flora for illustrations.

Drs. B. D. Reynolds and W. L. Bullock and their Helminthology students found the fauna of the Mountain Lake region quite healthy.

Prof. A. B. Massey's Plant Taxonomy class met in such various locations as Bald Knob, Cranberry Bog, and the shale barrens. Consequently, the students became familiar with every plant within 20 miles, from the grasses underfoot to the lofty trees overhead (including poison ivy).

Second Term: Dr. A. C. Cole taught his class in Entomology the simple facts of insect life--with demonstrations from Sinking Creek to Cranberry Bog. From the collections the class contributed mounted specimens to the laboratory.

Miss Catherine Russell kept her students of Bacteriology well occupied. The boys were happy to learn that they did not cause the deaths of the white mice. The group requested a noiseless autoclave with the hearty approval of Dr. Davis.

Dr. Robert Brunfield emphasized the relationship of plants and animals and insisted that the proper place to study Plant Anatomy was at the swimming pool.

Dr. David Davis made his Field Zoology class live up to its name. They arose with the birds at 5:00 a.m. and frequently ate breakfast miles from the Station. Working in pairs, they made population studies of salamanders, snakes, birds, and small animals. Their "theses" have been bound in one volume and presented to the Station.

## CULINARY

"Sergeant" Sanders ran the mess (chow wagon) well. She was aided in the kitchen by an all male staff: Charles Walker, cook; James Hicks, assistant cook; and Edward Carter, dishwasher.

## LIBRARY

Marjorie Carver of the Alderman Library and her assistants, Stella Barclay and Crews Borden, made a good start on rearranging and cataloging the books and pamphlets.

## TOPICS AND LECTURERS

MITOSIS AND MEIOSIS: L. R. Cleveland, Professor of Zoology, Harvard University

HISTORICAL SKETCHES OF MOUNTAIN LAKE AND THE MOUNTAIN LAKE REGION: Ivey F. Lewis, Professor of Biology, University of Virginia.

BIRDS OF VIRGINIA: R. P. Carroll, Professor of Biology, Virginia Military Institute

THE RATTLE OF THE RATTLESNAKE: Clifford H. Pope, Curator of Reptiles and Amphibians, Chicago Museum of Natural History

PLANT POISONING: A. B. Massey, Botanist, Virginia Wildlife Station, Virginia Polytechnic Institute

RANDOM REMARKS ON THE LOWER FUNGI: J. S. Karling, Professor of Cytology and Mycology, Columbia University

THE HISTORY OF THE BLANDY EXPERIMENTAL FARM: Orland E. White, Director, Blandy Experimental Farm, Boyce, Virginia

THE OCCURANCE OF ESTROGENS IN MARINE VERTEBRATES: J. K. Donahue, Professor of Biology, The College of Charleston

THERMAL REGULATION IN COLDBLOODED TERRESTRIAL VERTEBRATES: Charles M. Bogert, Chairman and Curator, Department of Amphibians & Reptiles, American Museum of Natural History

THE EVOLUTION OF SEX DETERMINATION IN ANIMALS: A. H. Winchester, Head of Biology Department, Stetson University

NOTES ON SOME TURBELLARIA: E. Ruffin Jones, Jr., Professor of Biology, University of Florida

PRINCIPLES FOR THE CONTROL OF POPULATIONS: David E. Davis, Research Associate, Department of Parasitology, The Johns Hopkins University

TEMPERATURE TOLERANCE AND GEOGRAPHICAL DISTRIBUTION OF PLANTS AND ANIMALS: Orland E. White, Director, Blandy Experimental Farm

RECENT TRENDS IN HELMINTHOLOGY: W. L. Bullock, Instructor in Zoology, University of New Hampshire

A CECIDOMYID GALL ON Amelanchier Canadensis (Thesis): Dorothy Green, Science Department, Central High School, Memphis, Tennessee

THE FORM AND FUNCTION OF THE ANTERO-VENTRAL SUCKER OF Maptophrya plethodonis LIPSCOMB, AN ASTOMATUS CILIATE (Thesis): Charles Crowder, Jr., Medical Student, University of Virginia

SOME ASPECTS OF ARANEOLGY: H. K. Wallace, Professor of Biology, University of Florida

GROWTH OF PROTOZOA IN PURE CULTURES: H. W. Schoenborn, Associate Professor of Zoology, University of Georgia

THE BIKINI SCIENTIFIC RESURVEY: A. C. Cole, Professor of Entomology, University of Tennessee

## IMPROVEMENTS

Many improvements were made on the grounds and buildings. All doors and door-frames, windows and window-frames were painted as was the outside woodwork on the laboratory. The color used was an off-white. All of the porch floors were creosoted. Door and window screens were replaced where needed. Bursted joints in the pipe line were replaced. Underbrush was cut out and "Shanty Town" was incorporated with the rest of the buildings. A permanent wading pool for small children was constructed. The dinner bell was mounted on a lower and firmer foundation. With volunteer labor, the scrub growth in front of the laboratory was cleared and the old stumps removed; bare spots were seeded with grass; Turk's Cap lilies and Golden Fringed orchids were planted near the building; the old signs were repainted; and Dr. Cleveland trimmed the rhododendrons and other shrubs around the cottages.

Inside the laboratory we found the temperature somewhat more agreeable than the dank cold of the previous year. The long-idle furnace was put into operation. An electric hot water tank was installed in the Bacteriology laboratory, and the constant temperature equipment was overhauled. Second-floor occupants will be glad to learn that the latter will be moved to the attic and set on a rubber foundation before next season.

The Rose Room took on the "new look." Two new watercolor paintings were added--the mushroom, Russula emetica, by Susan Smith of Athens, Georgia, a student last year; and Rhododendron maximum, by Mrs. J. K. Donahue of Charleston, South Carolina, wife of an investigator this summer. A butterfly collection, which had been stored in the library for several years, was put on display in the shelves of the Rose Room. The Entomology class rearranged and added to this collection and in addition contributed moths, dragon-flies, samsel-flies, and "just bugs." Large mounts of ferns and other plants were hung on the opposite wall. Audubon prints of both birds and mammals were framed and hung in the auditorium.

## LOCAL FLORA

The laurel bloom in 1948 was the heaviest and most beautiful ever. Azalias, both pink and flame, were still in bloom when the session opened. The fragrant white azalia saved its sweetness for the second term. Rhododendron retained its position as queen of flowers. Turk's Cap lilies were fairly plentiful, and they made the West Virginia road showy with their pendent blossoms. The Golden Fringed orchid was very abundant. It is gratifying to observe that this beautiful flower is becoming more plentiful in the vicinity. Blueberries added their sober bit of color to the landscape and were especially enjoyed in the dining hall, where they looked anything but drab.

## SPORTS

Volleyball was the newest addition to the sports activities and one of the most enthusiastically pursued. During the summer of 1947, volunteers cleared off the area and got the court in fair condition. The ground was plowed last winter. With more volunteer workers the court was made ready for use by the second term. Mann's "Mustangs" and Caswell's "Catamounts" battled for the rest of the session. Final results--a tie. Most of the Mountain Lakers participated either actively or on the cheering sidelines.

The horseshoe pits were dressed up this summer with new boxes, not to mention shelters. Both faculty and students engaged in a tournament.

Croquet was popular as always. Devotees were rewarded with a new "weather-resistant" set. The old set was used by the children.

Badminton and pingpong started off with a bang, but the ranks of their players were depleted by new attractions.

The swimming pool received more patronage than usual this summer because of the moderate weather.

Space was cleared for a tennis court, and rocks were blasted from the area. The court has been graded and should be ready for use next summer.

## MISCELLANEOUS ACTIVITIES

In addition to regular field trips connected with course work, many were energetic enough to hike to such places as Bear Cliff, Bald Knob, Castle Rock, White Pine Lodge, and the Cascades.

More distant excursions were made by some. The Popes searched various mountains in both the Blue Ridge and the Alleghenies for salamanders. Dr. Burch led an expedition for hellbenders. Mr. Bogert made mountain climbing easy when he took four others in his jeep over the mountain near Maggie on a rattlesnake hunt. Colonel Carroll took two young men to White Top, ostensibly to look for a rare species of Plethodon. No luck, although they did report seeing tracks.

A new trail now connects Rattlesnake and Rovelli Rocks. This trail passes by, or through, three new places of interest: Mann's Finger, Hyde Park, and Little Bear.

Kodachrome slides were exhibited by H. H. Caswell, John Funkhouser, Muriel Hegwood, B. D. Reynolds, and A. Robertson. Dr. Burch played an album of "Voices in the Night," and Col. Carroll played an album of bird songs.

## SOCIAL ACTIVITIES

Most Saturday nights were given over to square dancing led by the "Pride of Damascus," Austin Hyde, who contributed his records as well as his talents. The "figures" improved as the summer progressed. The Sunday night singing was especially good the second term, with Mrs. H. K. Wallace leading and Mrs. E. R. Jones, Jr., playing the organ.

The Young Set had directed chorals and plays. Without direction they staged a "Musical Revue."

Dr. and Mrs. Reynolds entertained the group at Reed Cottage again.

The Station held open house for hotel members and other invited guests. It was a good party, well attended and enthusiastically received. In addition to letting outsiders know what was going on at the Station, the occasion gave members an opportunity to find out what others of their group were doing. P.S.: The rooms and premises had a thorough cleaning.

## GRADUATES

The following Mountain Lakers received a Master's Degree from the University of Virginia on August 21, 1948:

Virginia Crews Borden, Charlottesville, Va.

Arthur W. Burke, Jr., Richmond, Va.

Charles H. Crowder, Jr., South Hill, Va.

Dorothy Green, Memphis, Tenn.

Lucile Walton, Danville, Va.

Margaret Walton, Danville, Va.

Louis Keffer, Richmond, Va., received a Bachelor's Degree at the same time.

## GIFTS

Mr. Charles H. Krustin, Chicago, Ill. ....	\$25.00
Senator L. C. Bird, Richmond, Va. ....	6 books
Various Biologists .....	6,000 reprints
For Fellowships .....	\$1,000.00
For Librarians .....	\$ 300.00
For Books .....	\$ 100.00
For Filing Cabinets .....	\$ 250.00

## NEW EQUIPMENT

During the year the Station acquired a station wagon, a Baloptican projector for slides and opaques, a projector for 2" x 2" kodachromes, and a rotary microtome.

## MOUNTAIN LAKE SUPERLATIVES

The biggest catch of the season was a 19-inch bass weighing nearly four pounds. It was taken from the Lake one night by Bob Johns. Bob had miles of smiles, as well as a big feast.

Muriel Hegwood snared a 14-inch frog in a net---some bull!

Don Gordon got over a bushel of chicken mushrooms from one log.

Clifford Pope passed a living rattlesnake around to members of the audience while lecturing on "The Rattle of the Rattlesnake." It was in a cellophane cylinder.

With two of the world's leading herpetologists in residence, the snakes obliged by showing up in numbers. About 25 rattlers and 4 copperheads were taken, not to mention the non-poisonous species.

Dr. Cleveland developed a method for destroying the centrioles in living cells.

Pictures made by Dr. Winchester indicate the rattlesnake's fangs are pulled into its victim rather than being driven in.

## PARDON ME, PLEASE!

The quickest way to get to Mountain Lake is by air. It requires only three days. For further information, see Sykes, Stein, or Burke.

Vera Baron had difficulty in finding the "G.I. Trap."

Austin Hyde would like to name his first daughter Clavaria, but Don Gordon thinks Tanya would be more appropriate.

Charles Crowder may not take candy from children but he will use their wading pool.

Cecile Smith had to have her radar ears repaired. They missed a few words spoken at the adjacent tables.

Instead of polishing apples, Alyce West secures the good will of her professor by splashing mud on his white shorts.

Two near tragedies: Muriel Hegwood tried to scalp the Director (too late!); Charles Crowder mistook Vera Baron for a pork chop which was being removed from the table. (There is only one right way for food to disappear.)

Claude Parish expressed surprise when Lucile and Margaret Walton and Dorothy Green appeared at a reception given at Dean Lewis' University residence for the graduates, wearing shoes.

- Alvis, Joel L., 919 Temple Ave., Knoxville, Tenn.  
 Barclay, Mr. & Mrs. F. E., East Tenn. State College, Johnson City  
 Baron, Vera, 6 Brown St., Martinsville, Va.  
 \*Bogert, Chas. H., American Museum of Natural History, New York City  
 Brumfield, Dr. R. T., S. T. C., Farmville, Va.  
 Buckland, Charlotte, 2623 Herschel St., Jacksonville 4, Fla.  
 Bullock, Dr. W. L., Univ. of New Hampshire, Durham, N. H.  
 Burke, A. W., Jr., 2926 Northumberland Ave., Richmond, Va.  
 Byrd, Dr. & Mrs. Elon E., Univ. of Georgia, Athens, Ga.  
 Carroll, Col. Robt. P., V. M. I., Lexington, Va.  
 Carver, Marjorie, Alderman Library, Univ. Va., Charlottesville, Va.  
 Caswell, Mr. & Mrs. H. H., 5101 Ambrose Ave., Hollywood, Calif.  
 Cleveland, Dr. & Mrs. L. R., 16 Divinity Ave., Cambridge, Mass.  
 Cole, Dr. & Mrs. A. C., Univ. of Tenn., Knoxville, Tenn.  
 Crowder, Chas. H., Jr., High Bridge Road, South Hill, Va.  
 Darlington, Mr. & Mrs. J. T., 61 Barksdale Dr., Atlanta, Ga.  
 Davis, Dr. & Mrs. D. E., School of Hygiene, Johns Hopkins, Balti.  
 Donahue, Dr. & Mrs. J. K., College of Charleston, S. C.  
 Ferrell, Wm. P., 1004 Rivermont Ave., Lynchburg, Va.  
 Fitz, E. S., Hanover, Penna.  
 Funkhouser, J. W., Beaverdam, Va.  
 Garthright, Ame, 2915 Floyd Ave., Richmond, Va.  
 Gordon, Donald P., 10538 N. E. Fourth Ave., Miami 36, Fla.  
 Green, Dorothy, 324 N. Bellevue, Memphis, Tenn.  
 Hyde, Austin T., Damascus, Va.  
 Hegwood, Muriel, 402 Randolph St., Radford, Va.  
 Johns, Robt. M., Box 52, Baylor Univ., Floresville, Texas  
 Jones, Dr. & Mrs. E. R., Univ. of Florida, Gainesville, Fla.  
 Kadis, Solomon, 1715 Payson St., Baltimore, Md.  
 Karling, Dr. & Mrs. J. S., Purdue Univ., Lafayette, Ind.  
 Keffer, Louis H., Jr., 1107 E. Clay St., Richmond 19, Va.  
 Lewis, Dean & Mrs. Ivey F., Univ. of Va., Charlottesville, Va.  
 Lewis, Norma, Maxton, N. C.  
 Mann, Mr. & Mrs. Chester A., 122 Ave. C., North, Winter Haven, Fla.  
 Massey, Prof. A. B., V. P. I., Blacksburg, Va.  
 O'Dell, D. H., King College, Bristol, Tenn.  
 Pope, Mr. & Mrs. C. H., Museum of Natural History, Chicago, Ill.  
 Pullen, Edward W., Biology Dept., U. Va., Charlottesville, Va.  
 Reynolds, Dr. & Mrs. B. D., 1702 Burnley Ave., Charlottesville, Va.  
 Rhodes, Mr. & Mrs. Stanley, Duke Univ., Durham, N. C.  
 Richards, Lt. & Mrs. W. L., Jr., V. M. I., Lexington, Va.  
 Richardson, Gladys, 1895 San Marco Blvd., Jacksonville, Fla.  
 Russell, Catherine H., 1 East 105th St., New York 23, N. Y.  
 Sanders, Margaret, Virginia Episcopal School, Lynchburg, Va.  
 Schoenborn, Dr. & Mrs. T. W., Univ. of Georgia, Athens, Ga.  
 Shirley, Mrs. Inez O., 1005 St. Petty Street, Gaffney, S. C.  
 Smith, Mrs. Cecile, Dept. Economics, U. of Cal., Berkeley, Calif.  
 Stein, George, 735 Washington St., Cumberland, Md.  
 Sykes, James, Biology Dept., U. Va., Charlottesville, Va.  
 Thomsen, Dr. Lillian, Mary Baldwin College, Staunton, Va.  
 Thurman, Maggie Jane, 207 Harvey St., Radford, Va.  
 Van Schaik, Margaretha, Biology Bldg., U. Va., Charlottesville, Va.  
 Wallace, Dr. & Mrs. H. K., Univ. of Florida, Gainesville, Fla.  
 Walton, Lucile & Margaret, 1116 E. Main St., Danville, Va.  
 West, Mr. & Mrs. W. R., Lynchburg College, Lynchburg, Va.  
 Williams, Dr. & Mrs. R. E., U. of Miami, Coral Gables, Fla.  
 \*Winchester, Dr. & Mrs. A. H., Stetson Univ., Deland, Fla.  
 Borden, Virginia C. 724 2d Ave., S., Nashville 10, Tenn.