# Mr. Lake Echoes 

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| :--- |
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Freida Price Panzie Dennis Tim Elmore

All Things to All Men:
All Things to All Women:

## Dear Mountain Lakers:

The Christmas season is fast approaching and it is time for us to send . our annual greetings. We hope this little bundle of memories (and the names and addresses of your summer colleagues) will help you keep in touch with one another and with us. Merrill Varn and Michael Williams have been doing a noble job of keeping up the old Mt. Lake spirit; but for those of you who are far away, this missive will have to do.

The summer of ' 78 was a happy time for us and, I hope, for all of you as well. You were a thoughtful group of hard-working and fun-loving folks. It was a pleasure to have you all.

Looking to the future, Jim Riopel will be putting in some information abaut the 1979 season. He has been doing some innovative juggling with the program, and everyone should find something of interest. Hope to see you all again next summer.

All the best for the holiday season.

## CLASS LISTS - MT. LAKE BIOLOGICAL STATION

| BIOLOGY 570: PRINCIPLES OF ECOLOGY | Z00LOGY 570: INVERTEBRATE ZOOLOGY |
| :---: | :---: |
| Carpenter, John | Baudoin, Marina |
| Holman, Bill | Patton, Gibbes |
| Hopkins, Douglas | Pearson, Elaine |
| Kaiser, Jennifer | Robertson, George |
| Pearson, Elaine |  |
| Schwartz, Mitchell | ZOOLOGY 577: MAMMALOGY |
| Tullis, Martha |  |
| Williams, Gregg | Adler, Greg |
|  | Deyton, Tom |
| BOTANY 571: PTERIDOLOGY | Grusha, Donna |
|  | Holman, Bill |
| Berry, Kendell | Jones, Mo |
| Deyton, Tom | Williams, Gregg |
| First, Fred |  |
| Gleaves, Chuck | BOTANY 572: TAXONOMY OF SEED PLANTS |
| Hicks, Gail |  |
| Karn, Pat | Ault, David |
| Kotenko, Jane | Berry, Kendell |
| Krome, Margaret | Blizard, Betsy |
| Parks, Jim | Karn, Pat |
| Rutledge, Bart | Krome, Margaret |
| Williams, Michael | McMillen, B1b |
| Yamamoto, Kathy | Matylewich, Mike |
| ZOOLOGY 574: HERPETOLOGY | Shenton, Margi |
|  | Stull, Craig |
| Bleier, Mitchell | Trent, Mark : |
| Gary, John | Wellage-Dixon, Lynn |
| Greco, John | Williams, Michael |
| Harold, Cathy |  |
| Stull, Craig | BIOLOGY 592: ECOLOGICAL GENETICS |
| Tiszler, John |  |
|  | DiGuiseppi, Carolyn |
| BIOLOGY 580: EVOLUTION | Gleaves, Chuck Kirkland, Jimmy |
| Baudoin, Marine | May, Mary Love |
| Gladson, Nancy | Pease, Jim |
| Kirkland, Jimmy | Stine, Colin |
| Lowe, Gene | Woodford, Mark |
| McIvor, Carole |  |
| MacQueen, Peggy | BIOLOGY 599: RESEARCH |
| Montague, Caroline |  |
| Pease, Jim | Varn, Merrill |
| Steffens, John | McIvor, Carole |
| Woodford, Mark | Adler, Kraig |



| Tiszler, John | Herp |
| :---: | :---: |
| Tullis, ilartha | Ecology |
| Williams, Gregg | Ecology |
| Williams, Míchael | Ferns |
| Woodford, Woody | Evolution |
| Yanamoto, Kathy | Ferns |
| FACULTY \& STAFF |  |
| Angleberger, Mary Ann - Sec. Tommy |  |
| Conant, Babs | Evolution |
| Farrar, Don | Ferns |
| Hite, Carlton | Caretaker |
| Teeny (IIrs.) |  |
| Rich |  |
| Robin |  |
| Fienee |  |
| Jopson, Harry | Fierp |
| Nurray, J. J. | Director |
| Bess (Mrs.) |  |
| Joe |  |
| Tiki |  |
| Willy |  |
| Odum, Bill | Ecology |
| Varn, lierrill | Bus. Manager |

COTTAGE
Chapman
Laing NW
Audubon
Maphis
Deschweinitz
Laing South
Audubon
commutes
Laing single
Deschweinitz
E1liott
Catesby
Audubon
Elliott
Chapman
Deschweinitz
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Chapman
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Banister
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Audubon
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MT. LAKE DIRECTORY - FIRST TERM
MT. LAKE DIRECTORY - FIRST
NAME COURSE
Baudoin, Harina Evolution
Berry, Kendell Ferns
Buffy (Mirs.)

Small but select was the class that assembled to study "Principles of Ecology". At the head of the peck order was Dr. William E. Odum (identifiable in his "fighting gobbler" shirt) who exemplified the principles of intraspecific rivalry and competitive exclusion both on the volleyball court and croquet green. Of subordinate status were his students, who although noted for their migratory ways managed to congregate most Mondays through Fridays. Their individual specializations are noted as follows:
-Greg Williams (a specialist in population ecology on the family Level) and John Carpenter (a pre-adapted volleyball player) turned the stomachs of many fellow Mountain Lakers as they explored the little-known area of epicurean delights of trout and salamander.
-Marth Tullis (one of the primary consumers of the dining hall staff) struggled against unfavorable odds in her Margaly extractions to obtain reproducible data of production/respiration ratios.
-Jennifer Kaiser (another primary consumer or member of the dining hall staff) incidentally studied the effects of a 48 -hour day on her biological clock while chartin $\mathrm{O}_{2}$ curves for Horton and Sylvatica ponds.
-Douglas Hopkins (the least territorial individual of the population) found the altitudinal studies on Bear Cliffs to be of such little challenge that she immigrated further North to face mountains of ice.
-Mitch Schwartz (living proof of character displacement when placed in symmetry with Gregg Williams) will never be able to convince friends in New York that he chased leaf hoppers and butterflies for a diversity study.
-Elaine Parsons (noted for her spirit of protocooperation) endured countless fallen trees and debris as she assessed the ice damage of last April. Her project is certainly a study of the survival of the fittest as her colleaguc was "Wild Bill" Holman (the only Mountain Laker to successfully scale without safety equipment the Cascades, Bear Cliffs, Bald Knob, White Pine Lodge, and the Lab building in a single afternoon).

The class as a whole explored many facets of ecological theory. Still yet to be resolved, however, is whether group selection actually exists. Numerous trips to Tech failed to yield significant data.

## INTRODUCTION TO EVOLUTION

Once upon a time there were only particles of dust in a lab room. In strolled Babasaurus (Bats for short), followed one by one by her ten member crew.




They had no idea of what was in store for them during the next five weeks; all sorts of famous names, not to mention Babasaurus and Gene Lowe Pool, either passed through (Volcanic Bambach and Let's Go Lowry) or were noted (Harvey's Wine and Burgers and puking Man) in class. Other visitors included Murray's snails (0) , fossils from U.Va. and Mary Baldwin collections When the crew learned how to spell "I'm annoyed" (or $W^{\text {was }}$ it "ammonoid"?), it was about the time Woody began to hang out windows and climb up walls.


Meanwhile, the rest of the crew observed and composed such delightful music (John Steffens on pig-snorting guitar and Marina

Baudoin on exotic-bird flute

building came to see the excitement. Fortunately, the crew didn't go completely bananas, because they had several field trips away from the dustfilled lab room which by now possessed many

and

that others in the $\therefore 1$

(Brass) Nuckles

packed plenty of food for the big four-day

## EVOLUTION (continued)

trip in state vehicles \#47 and 49.


The crew, now experts in Paleontology, dug up many fossils with their geologic hammers.

of the trip happened at the Smithsonian, where they actually held the world famous Burgess Shale in their own hands while listening to the Sidney inexpecrus. story for the third time.

During the last week back at the Station, each crew member presented their gift to the others in the form of a panel:


Peggy


Gene


Jim
e 0

Then after the final exam, the completely evolved crew collapsed at Wind Rock... $=0$


## PTERIDOLOGY

Probably no one can forget finally reaching the Biological Station and seeing the first five foot high fern. Really, it looked like a tropical rain forest. And this was what we were going to study? Like studying deer in Milwaukee. It was a precarious first week; yet come week two, we felt we'd been there for months.

The fern class? I suppose you could sum it up in two words - Don Farrar. It had to be just that - our professor - who made the course a success! Easy going, relaxed, full of boyish wonder and excitement - all these traits were combined into a very human professor.

Then there were students; another big plus! Some had already taught college - they were a fantastic help - it was almost as if we had three professors. Thanx to Gail and Jim we learned about mosses, chromosomes, and general botany which never would have gotten through our skulls any other way than hearing about it on demand --- and we demanded a lot of them.

And we had our grad students too - Chuck and Jane and Mama Yama - three really loaded individuals - full of info - and tequila too --- Mama was our driver and token doctor - she helped keep everybody feeling fine --- Chuck our resident spiker and plant identifier - he kept Farrar on the ball and sober in class.

Jane was Jane --- a blushing human who drove a truck even Carlton wouldn't drive.

And all us together made a memorable first term. Tom, our corps man on the hikes and a driver, kept us entertained with his auto pond side bashes.

And Pat - always pacing before a test - so worricd about those $98 \%$ - but a neat person with tons of energy on the volleyball court and in the Mountain Lake race.

Margaret - the catalyst on hikes - testing us all, and finding all the ferns I had just stepped on.

Kendell, an all around nice guy, the kind you'd want on your police force - super athelete, fern finder and general naturalist - who would believe he was from Greene County.

And Bart - our own Rhizome specialist - known for a 35 pound Osmunda Rhizome, would have put an ardvark's hole to same! Also, as the executor of the "Walking Rhizome" which woke up the class one morning --- yes, even Dr. Farrar did a double take.

And the fern foreman, Dr. Wagner, "All men out of the woods", Dr. Evans, Breaks Interstate Park, swimming, getting lost, cliffs, poison ivy, colds, backrubs, and just nothing but being Right - We'11 miss you Mt. Lake, of cool mornings and froggy nites --- I miss you Mt. Lake - 'cause you were my first Virginia home - and because learning came so quickly (it had to) and leaving came too soon.

## PTERTDOLOGY (continued)

I hope we can all be together soon. If not all of us, then by twos or three because we were too neat together not do it again.

Thanx for being a wonderful class ---

Michael Williams
"Well, the South may rise again - but it's not going to be from this lass. I've never seen so many damn Yankees in my life!"

- With those opening words, we all knew that Zoology 574 with Professor Harry Jopson was going to be something to remember. And so four New Yorkers, one Sweet Briar student, and one young man from Allentown, Pennsylvania (I got you in there, Stull!) began the intense study of the herpetofauna of Southwestern Virginia. From the top of Mt. Rogers, to the shores of Fourier's Pond, and from the wilds of Bridgewater to the calms of White Pine Lodge we left no stone unturned and no log unrolled in our search for our "creeping" friends. And whether we were looking for salamander's at night or lizards during the heat of a July day, we did it with all the excitement and enthusiasm that could be expected from Yankees.

I'm sure that for the rest of our lives we will remember our summer at Mountain Lake. Who can ever forget our cave trips in search of the infamous "red lizard". Or the redback: leadback study conducted at the top of Pott's Mountain (what was that for, anyway?). Or the memorable trip to Bridgewater in which we were almost able to leave Stull behind? (Just kidding, Craig!) These memories will always be there when we'll need them. Whether it will be to impress a biology professor, entertain friends at a cocktail party or just sit back and relive our past, we can count on them. And with all kidding aside, I don't think anyone in the Herpetology class, or at the Station on the whole, can ever disagree with the fact that it was a hell of a way to spend a summer. We learned about herpetology from one of the best, and Prof. Jopson knows that we are forever indebted. And, as for the rest of Mountain Lake, all I can say is that we are all better volleyball players today. (not to mention badminton, croquet and three-legged races).

John Greco

| Varn, Merrill | Research | Banister |
| :---: | :---: | :---: |
| Wellage-Dixon, Lynn | Seed Plants | Chapman |
| Williams, Gregg | Mammalogy | Schoew |
| Williams, Michael | Seed Plants | Laing single |
| Woodford, Woody | Ecol. Gen. | Audubon |
| Yamamoto, Kathy | Research | Chapman |
| FACULTY, STAFF \& OTHER NOTABLES |  |  |
| Angleberger, Mary Ann Sec Tommy |  | Gattinger |
| Antonovics, Janis | Ecol. Gen. | Laing West |
| Burns, Robert | Mt. Lake historian | Burns |
| Handley, Charles Darelyn (Mrs.) <br> Ben <br> Tom | Mammalogy | Clayton |
| Hite, Carlton <br> Tenny (Mrs.) | Caretaker | Around |
|  |  |  |
| Rich |  |  |
| Robin |  |  |
| Renee |  |  |
| Johnson, Clifford Marty (Mrs.) | Invert. | Hentz-Mohr |
| Keener, Carl | Seed Plants | Michaux |
| Joyce |  |  |
| Dot |  |  |
| Car1, Jr. |  |  |
| Don |  | Banister |
| Murray, J, J. | Director | Reed |
| Bess (Mrs.) |  |  |
| Joe |  |  |
| Tiki |  |  |
| Willy |  |  |
| Walton, Lucile | Mt. Lake | LeConte |
|  | historian \& | wer arranger |

MT. LAKE DIRECTORY - SECOND TERM

| NAME | COURSE | COTTAGE |
| :---: | :---: | :---: |
| Adler, Kra'ig | Research | Holbrook |
| Delores (Mrs.) |  |  |
| Todd |  |  |
| Adler, Greg | Mammalogy | Audubon |
| Ault, David | Seed Plants | Audubon |
| Baudoin, Marina | Invert. | Chapman |
| Berry, Kendell | Seed Plants | Laing NW |
| Buffy (Mrs. \& Li | rian) |  |
| Blizard, Betsy | Seed Plants | Laing North |
| Deyton, Tom | Mammalogy | DeSchweinitz |
| DiGuiseppi, Carolyn | Ecol. Gen. | Elliott |
| Gleaves, Chuck | Ecol. Gen. | Laing single |
| Grusha, Donna | Ecol. Gen. | Laing single |
| Grusha, Donna | Mammalogy | Elliott |
| Holman, Bill | Mammelogy | Laing single |
| Jones, Maurice (Mo) | Mammalogy | Laing South |
| Karn, Pat | Seed Plants | Deschweinitz |
| Kirkland, Jimmy | Ecol. Gen. | Audubon |
| Krome, Margaret | Seed Plants | Elliott |
| May, Mary Love | Ecol. Gen. | Chapman |
| McMillen, Bob Pat (Mrs.) | Seed Plants | Laing Center |
| Matylewich, Mike | Seed Plants | DeSchweinitz |
| Organ, Sylvia | Seed Plants | Chapman |
| Patton, Gibbes Connor (Mrs.) | Invert. | Catesby |
| Pearson, Elaine | Invert. | Elliott |
| Pease, Jim | Ecol. Gen. | Deschweinitz |
| Robertson, George Jennifer (Mrs.) Noe1 | Invert. | Maphis |
| Trent, Mark | Seed Plants | Laing single |
| Shenton, Margi | Seed Plants | Chapman |
| Stine, Colin | Ecol. Gen. | Audubon |
| Stull, Craig | Seed Plants | Audubon |

## ECOLOGICAL GENETICS

The moment I reached the top of The Mountain, I could see that I'd somehow managed to land myself in an absolutely unbeatable setting (I don't need to tell you all about that), but what I was wondering was what was this course called Ecological Genetics I had selected for and been translocated into??? Well, as it turned out Ecological Genetics consisted of a highly variable population of seven, all deviating significantly from standard. We could commonly be found chasing damselflies ("How many tenerals have you caught?" "None, but I caught 12 mating pairs in nuptial rings." "We11, I caught one single female andromorph"), counting damselfly wing segments, soggily pursuing striped land snails and then counting their bonks--yes, bonks!, trying to think like a vole (I mean shrew)--Which snails would you eat anyway? (Me, I'd eat the ones in garlic butter), or poking about old arsenic mines collecting weeds and local gossip.

We first became acquainted as we competed for dominance of an old sailboat bottom in Riopel Pond. Friendship grew over hearts games and beer, and true comradeship was forged as we all began to sweat through those characterbuilding Wednesday night seminars. Common seminar format: Just as you'd uttered your first cogent (you were sure) and erudite introductory sentence, you'd be backed up to your third word by C. Someone's interminable questions. And so it would go. And go. And go. And go... In class we'd learn our creeds and doctrines, during coffee breaks we'd learn magic tricks. We lost a volleyball game, increased our fitness and won one. He searched for a phantom cranberry bog and found a capital swimming hole.

Known as the family Ecogenaceae, our population included:
One unquenchable Britisher, source of enthusiasm, encouragement, limericks and other quaint utterances:-beer, and limitless projects (There goes one and another and another and another).

One Chuck Gleaves, lover of anything green and growing and bound and determined to get to the point of all this.

Barefoot Colin wearing baggy pants, asking interminable questions, inventing nimble-toed canoe tricks.

Jim Pease, the Vermonter with the magic fingers (they smoke!) A warning to his Virginia Reel partners- he wears mountain climbing boots.

Carolyn, the animal lover who finally mustered an affection for wild yams. Which way do they twine, Carolyn?

Woody - golden boy - playing pick-up sticks with the bumble bees and staying in the canoe as Colin taught him nimble-toed tricks.

Jimmy K., a quiet presence in our raucous midst. He smoke a pipe.
M. L., somehow managing to find a project that lent itself to a daily swim --- even in the last four days!

Extra variability was introduced to the Ecogenaceae by a few immigrants who drifted in and out--there was J. J. Murray, snail-man and seminar

## ECOLOGICAL GENETICS

spicer-upper (to put it mildly), George Volleyball, a tiny red-haired offshoot named Kate, and recently dispersed from New Zealand, Richard, inventor of the Plantago line (relative of the well known clothesline). All in all we were quite a select group and as the weeks passed I'm sure every one added a few new definitions of Ecological Genetics to their list.

The following is a contribution from one of our more poetic members as he waxes nostalgic at the thought of our memorable summer at Mountain Lake:

## EPITAPH

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Oh Mountain Lake for thee I yearn, With pristine lake and luscious fern, And Oh those damsel flies of turquoise blue, With shimmering wings and brilliant hue, Still, still I hear their love call say "Lest my genes you waste away By your neck I'll grab all day" They who flitted in our nets so nicely, That we could measure wings precisely. In between the hearts games we did measure Volleyball was little pleasure
Till we had got our beautiful treasure of a million wings asunder And a mass of data for to ponder. Oh hountain Lake for thee I yearn, Selection! Fitness! Oh to learn!*
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Anon, B. A., Ph. D.

## PLANT TAXONOMY

I find it difficult to write about Dr. Keener's Plant Taxonomy class. It was a challenging and a rewarding course and all that stuff, but it was more than that. It was more than keying out plants, learning terms, and field trips -- so much more that I cannot begin to explain to those who did not take the course.

Since I'm not going to write about the course, what am I going to write about? Well, I'm not going to write much -- after all I'm just as lazy as the next person. What I am going to de is to honor those people who made the course more than all that stuff above.

Music Award - Betsy Blizard - for her harmonica playing which made the hours on the highway more enjoyable.

Night Owl Award - Bob McMillan - for staying up the latest and drinking the most coffee while preparing for a test.

Sportsmanship Award - Dr. Keener - for quietly suffering defeat by the Ecological Genetics class in our second volleyball game with them.

Natural Award - Lynn Wellage-Dixon - for refusing to drink cokes or eat candy bars on field trips. She drank juices and ate fruits or nuts.

Perfect Attendance Award - Bess Murray - for perfect attendance to all class functions except when taking care of her husband's snails, walking the dogs, taking care of her children, etc.

Purple Heart Award - Mark Trent - for suffering the most bee stings while in the field.

Driving Award - Michael Williams - for driving the Carry-All on all field trips and not once spinning the tires or missing a turn (well, maybe a few, but then, Dr. Keener was the navigator).

Marksmanship Award - Pat Karn - for unprecedented accuracy with burdoch burs while in the field. (I told you I wasn't the only one involved.)

Citizenship Award - Craig Stull - for warning the class of danger while yellow jackets circled overhead . . . around arms, around waists, around ankles....

Kindness Award - Margie Shenton - for releasing in public, a panicked and confused yellow jacket trapped between her ____ and her painter pants.

Class Comic Award - David Ault - for falling over in his chair during one of Dr. Keener's lectures. Oh, if anyone knows of David's present location, please send the information to the Virginia State Prison. Three inmates are very anxious to learn of his whereabouts.

Top Ten Award - Mike Matylewich - for supplying the words to the songs which we only remembered the tunes.

## PLANT TAXONOMY (continued)

Juke Box Award - Margaret Krome - for punching the "Fox on the Run" button twice on every juke box that had it.

Gungho Award - Sylvia Organ - for being a high school student and doing so well in the course.

To the winners of these awards: Do not expect to receive money in the mail, your name, immortalized in this print, should be enough reward.

Kendell S. Berry

## INVERTEBRATE ZOOLOGY

The 1978 Invertebrate Zoology course at Mountain Lake was taught by Dr. Clifford Johnson of the University of Florida. There were four students, Marina Baudoin of New York, N.Y.; Gibes Patton of Spartanburg, S.C.; Elaine Pearson of Roanoke, Va.; and George Robertson of Raleigh, N.C. Each student did an individual project: Marina's aquatic animal collection was the most comprehensive; Gibes' study of colonization patterns on submerged household sponges was the most work; Elaine's sampling of rotifer/moss associations was the most tedious; and George's insect collection was the most fun, according to him. Dr. Johnson collected some terrestrial isopods along the way to use in his genetics research at Gainesville. The laboratories were one emotional peak after another, with shouts and shrieks heralding discoveries of tardigrades, star-shaped spermatozoa, pseudoscorpions, rhizoidal bryozoans, branchiobdellans, shelled amoebae, etc. Elaine proved to have the magic touch: she found all the tardigrades and pseudoscorpions. Gibes found a slime mold; George found a big centipede that bit him. There were group and individual collecting trips to the New River, Sinking Creek, and other points close to the Station. No one got drowned or snake bitten.

## MAMMALOGY

This past summer at Mountain Lake will hark back memories for many years to come for the members of the mammalogy class. The course started like any other course, with classroon lectures and textbook assignments, but it soon took a different route as we began running our traplines. Not on1y did we set our traps and check them (often at 5:30 a.m.), but we collected data and prepared specimens, some of which are now in the valuable collection of the Smithsonian Institution.

Each of us has unique personal recollections. Perhaps Donna will reflect most often on her trapline on Bald Knob, where she was caught in a thunderstorm and for a short time lost a number of traps. Wild Bill's fondest: recollection is probably of Big Good Bed, where he caught one mouse in three days. Gregg seemed to especially enjoy the 5:30 a.m. trapline checks, particularly when there was a substantial cover of dew so that he was sure to return soaking wet. Tom (or Timmy as he liked to be called) had a pleasant time at the National Zoo in Yashington. Although he enjoyed it, I think that toward the end he had "had enough". Mo will no doubt reflect on the way Mountain Lake contrasts with Texas. He will often think of the beautiful forests, with their luxuriant fern beds and abundant animal life. His slides will serve to reinforce and prolong these sentimental thoughts.

Despite our contrasting recollections, I am sure that we shared some fellings. I am confident in saying that all of us were at one time or another disgusted with our poor yields, yet we felt some remorse for having dispatched the small creatures of the forests and meadows.

The mamalogy course was therefore a singular experience. All of us learned a great deal from a very capable and adept professor. Although this course and the associated experiences will not be soon forgotten, for Dr. Handley it was just another mammalogy class.

## MT．LAKERS＇ADDRESSES

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Williams, Michael-2412 Jefferson Park Ave., Charlottesville, Va. 22903
Woodford, Wody-3831 Central, Western Springs, I11. 60558
Yamanoto-411 Valley Rd., Charlottesville, Va. 22903

COURSES TO BE OFFERED AT MOUNTAIN LAKE BIOLOGICAL STATION - 1979

## First Term: June 18 through July 17

| Field Biology of Green Plants | C. R. Bell, University of North Carolina | 4 hour |
| :---: | :---: | :---: |
| Research - Plant Biosystematics |  | $r$ |
| Taxonomy and Ecology of Bryophyte | Susan M. Moyle, Centre College of Kentucky | 2 hour |
| Biology of Parasitic Angiosperms | Lytton J. Musselman, 01d Dominion University |  |
| Research - Parasitic Angiosperms | " " | 2 hour |
| Animal Behavior | Chris DeRosa, University of Virginia | 4 hour |
| Research - Animal Behavior |  | 2 hour |
| Ornithology | David W. Johnston, University of Florida | 4 hour |
| Research -- Ornithology |  | 2 hour |
| Experimental Animal Ecology | Luther P. Brown, George Mason University | 4 hour |
| Research - Animal Ecology | " " " | 2 hour |

Second Term: July 19 through August 17
Aquatic Ecology
Research - Aquatic Ecology
Algology
Research - Algology
Mycology
Research - Mycology
Forest Ecology
Research - Forest Ecology
Paleobotany
Research - Paleobotany
Entomology
Research - Entomology

| Mahlon G. Kelly, University of Virginia | 4 hour <br> 2 hour |
| :---: | :---: |
| Austin E. Brooks, Wabash College | 4 hour <br> 2 hour |
| H. H. Burdsall, Jr., USDA Forcst Service | 4 hour 2 hour |
| Gary L. Miller, Eisenhower College | 4 hour 2 hour |
| Judith $\underset{n}{\text { E. }}$ Skog, George Mason University | 4 hour 2 hour |
| George W. Byers, Univesity of Kansas | 4 hour <br> 2 hour |

