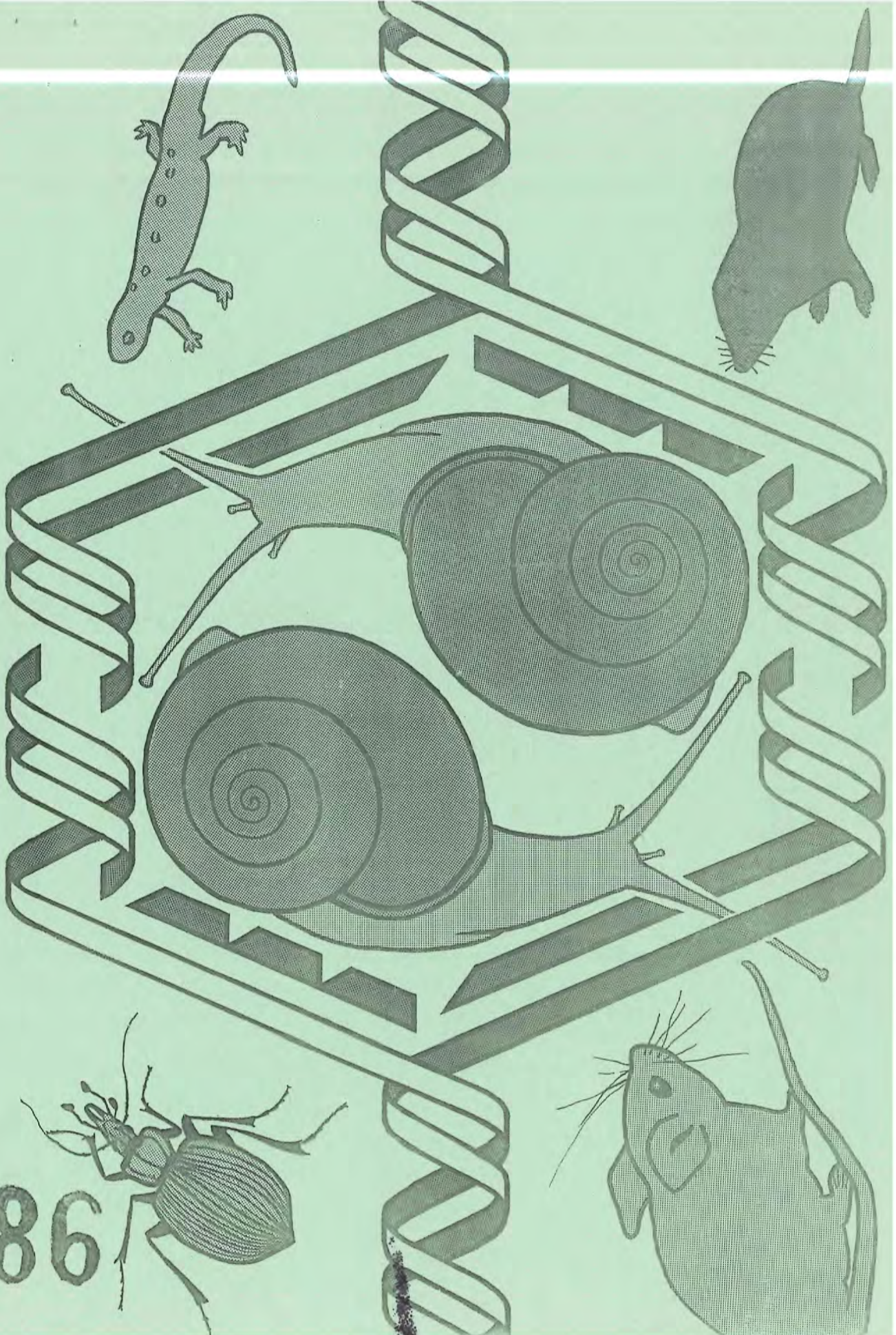


M  
t.

L  
a  
k  
e  
E  
c  
h  
o  
o  
s

86





## MOUNTAIN LAKE BIOLOGICAL STATION

---

UNIVERSITY OF VIRGINIA  
GILMER HALL  
CHARLOTTESVILLE, VA. 22901  
(804) 924-3151

December 22, 1986

Dear Mountain Lakers,

This year has been an interesting one for me. Running Mountain Lake definitely has some good points. Chief among these is the chance to work with and be guided by the trio of Marilyn Ladd, Wayne Angleberger and Mary Ann Angleberger. Marilyn pilots the Station during nine months of the year and her good sense makes the Station run smoothly year in and year out. Those who are associated with the Station only during the summer may not realize the extent to which she makes Mountain Lake work. Of course, all of you know that Wayne and Mary Ann really run the Station and I should not have survived the summer without their good humor and conscientiousness.

I feel that the summer of 1986 was largely a success. In my first session as director I made some mistakes, however I also hope that a few of the changes will be lasting and for the better.

It won't be long now until spring rolls around and activity begins again at the Station. I'm looking forward to next summer, both in order to see old friends, but also because I'm excited about the line-up. I have made a conscious effort to try to get a few new faces for next summer's courses and six of the faculty next year will be new Mountain Lakers.

I want to extend to you all my best wishes for the New Year and my hopes that everyone has a productive spring semester and returns, recharged, to Mountain Lake this summer.

Sincerely,

*Blaine Jml*

ml

P.S. Congratulations to Helen and David Alexander on the arrival of their baby girl, Diane Elizabeth, born November 7th.



The HERPETOLOGY CLASS this year was distinguished by a number of interesting events, as well as the creation of a herpetological team from a disjointed group of biology students. Not only were we trained in the classroom, but also in the field during a number of varied trips throughout the Southern Appalachian countryside.

Other than a few afternoons spent walking around Riopel, Sylvatica, and Horton ponds, our first trip was down to the New River for that annual Hellbender "snipe" hunt. Although we found the perfect Hellbender habitat, we somehow failed to net any of those hellish creatures. We did however catch numerous crayfish, a couple of bass, a water snake, and a catfish. Not too bad for a newly formed team of herp hunters!

Our next field trip was in search of the four-toed salamander. This time mister four-toe turned out to be the snipe. However, once again we did not fail to have our fun with nature. This time we stumbled across Plethodon glutinosus, yes, the dreaded slimy salamander! We soon discovered how this secreting wonder earned its name when we attempted to wash our hands back at the Station.

Still, the true test of our newly formed herp unit lay ahead. These first field trips were merely a training period for our trip to Mt. Rogers. With our fearless leader, Commander Salamander Hubert Keen, at the helm, we set out in the HAV (Herpetological Assault Vehicle, a.k.a., the Mt. Lake jumbo van), ready for any salamander we might face. After consulting Dr. James Organ (expert on salamanders of the Appalachians), we headed for the prime habitats of the many diverse species of salamanders found exclusively in the mountains of southern Virginia and North Carolina. This time it was no snipe hunt! We found a large variety of salamanders, the most impressive being that multi-colored wonder, the Yonahlossee salamander. Now we were a true herp unit!

The rest of the session we used this newly discovered herp instinct both in the classroom and out. We studied tadpoles, caught various snakes (and vice versa), and of course all of this knowledge culminated when we each carried out our individual research projects.

Being situated within the habitat of the creatures one is studying is certainly a major attraction to Mt. Lake. Fortunately, the herp class this year was able to take advantage of this opportunity, and through a lot of hard work and even some fun, I think we learned a little more about the world that we live in. --Rhine Singleton



STILL ONLY 35¢

MARVEL® COMICS GROUP

APPROVED BY THE COMICS CODE AUTHORITY

47 ADD

CC 02142

MARVEL PREMIERE FEATURING TM

© 1979 MARVEL COMICS GROUP



TM

# THE ASTONISHING ANT-MAN

ALL NEW!



IS THIS THE REAL ANT-MAN OR AN IMPOSTER?!

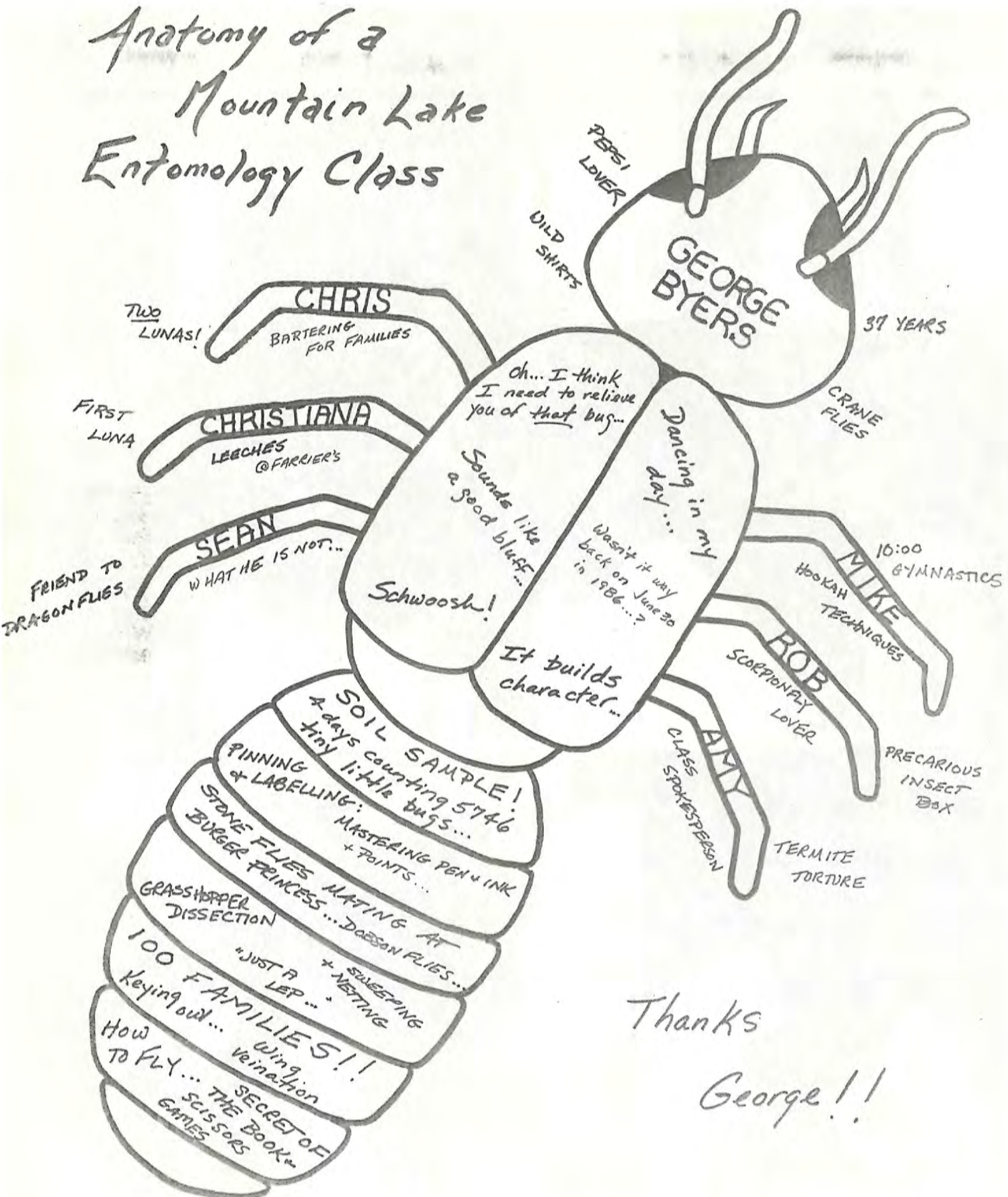


RAYON

...the w...  
...s. Pha...  
...er see u...  
...s quoting...  
...the doctor's...  
...Thirty-five stu...  
...hibiting the adv...  
...stores of prescrip...  
...until the U.S. Suprem...  
...against such laws last...  
...states now require that all...  
...cies post the prices of certain...  
...monly prescribed drugs.

...ou...  
...do...  
...phar...  
...over the...  
...however, would...  
...cription order be...  
...price so they can veri...

# Anatomy of a Mountain Lake Entomology Class



Thanks  
George!!









## THE CLASS

When the over enthusiastic Wolff Dude and the gentlemanly Dr. Pulliam enter the Behavioral Ecology classroom, Maureen jumps off the countertop where she has been "studying"/sleeping all night long, Maria inhales her Diet Coke in one breath, Lisa tries to return from outer space, Vivian props her feet up to get comfortable, Karen gives a sigh of anguish, and Marie burps.

"What a fantastic group of students we have here, Ron. They are soooooo eager to get started. Isn't it nice to have a motivated group like this?"

A chuckle escapes from Dr. Pulliam's lips as he replies, "uh. . . G'mon Jerry. Let's get down to business." He chuckles again and goes on with the lesson. After all, when Dr. Pulliam speaks, people listen.

"Today we will hear the presentations on your research projects. Who would like to go first?"

As the class stares blankly at the walls, Miss Galloway volunteers. What a brave soul. The report that Karen "bed bugs" Calloway gives is quite impressive. The rest of the class now sees why she hasn't been sleeping for the whole week. Karen, with that brilliant mind of hers, has somehow managed to prove that Science is the key to the universe. She even discovered a statistical test that could be used to show this. She calls it the "Alpha-Beta-Blueberry-Pie-Squared" test. What a remarkable and moving presentation!

Maria "almost tennis pro" Lukowsky is the next victim. She has been studying the home ranges of lactating female mice. After telling the class about the hardships of tracking shake-and-bake fluorescent mice (i.e. 911 and being scared out of her pants by Jesús), she finally concludes that it is more profitable to play tennis than to work on projects.

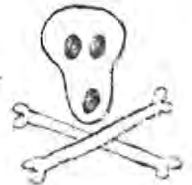
Lisa "bod" Harrison tells the class about her experiment with optimal searching behavior. She spent the whole week searching for a romance. She looked on the lawn, at the lake, and even in some rotting wood. She did not find romance, but instead found Cryptocercus, the next best thing. Quick! Someone get the Dramamine!!!

Vivian "Parus major" Duisit constructed a project to test energy exertion. Her method was to see if it took more energy to clear clothes, books, food, etc. off her sleeping bag before going to sleep or else to leave the stuff there and lift everything up so she could crawl under it. Her conclusions showed that it required less energy to just stay awake all night!

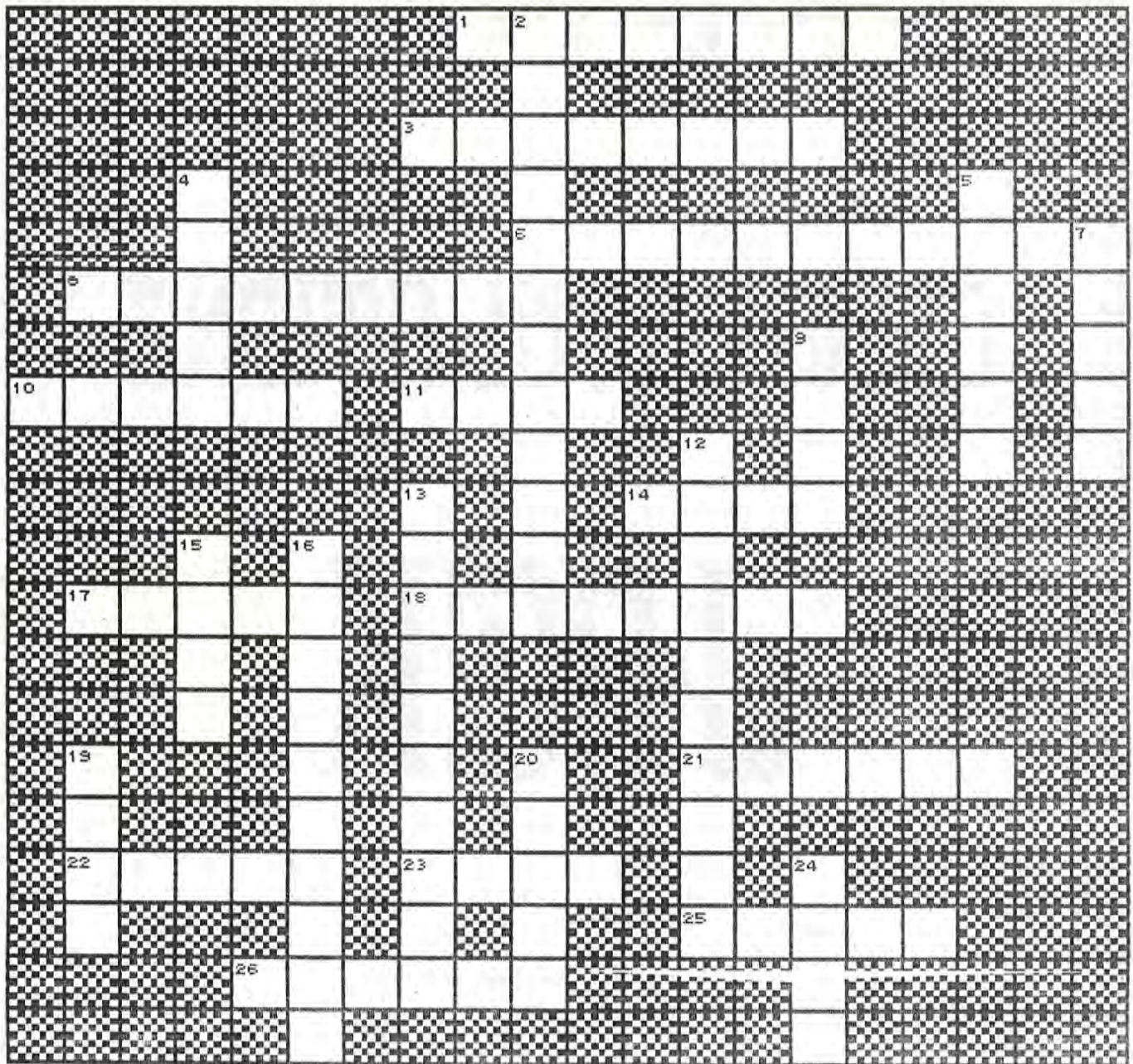
Maureen "be all you can be" Sullivan did some research on optimal grading. She placed an "evil spirit" in her study area so it would kill all her animals. Therefore, she didn't have to do any work. We'll see what kind of grade she gets!!

Marie "procrastinator" Regland was the last student to present a project. She had observed dining hall behavior and found that Dr. Pulliam was the most reserved while Wolff Dude was the roughest. She concluded that these behaviors were the result of the company each person kept. Dr. Pulliam was always sitting with his family and Wolff Dude was always surrounded by females. She suggested that further studies could be made on Wolff Dude's mating behaviors.

Both professors were quite impressed with all the reports. They commented that they all showed an understanding of the concepts taught in class and that they were all unique. After they left the classroom, the students brought out the beers. While discussing the day's excitement, the ominous question arose once more . . . "what kind of U.S. can we come up with for next week's presentation?"



MOUNTAIN LAKE - FIRST TERM



ACROSS CLUES

1. STEVE BROYLE'S PLANT
3. POLLENATOR'S HANGOUT
6. VERY SPECIAL MT. LAKER
8. RETTA'S GENUS
10. HELEN'S GENUS
11. MT. LAKER'S CHIEF ENEMY
14. DALE'S FAVORITE OBJECT
17. VAL, ELLEN, LICIA, ZIG, & KEN'S BIRD
18. FOUND ON COVER OF BULLETIN (2WDS)
21. IMPORTANT GEL ITEM #1
22. LISA'S NEMESIS
23. CHAPMAN FOR EX.
25. HIRO'S ANIMAL (QUITE DANGEROUS)
26. GENUS OF ANIMAL FOUND IN DISK DRIVES

DOWN CLUES

2. JESUS' FOR EX.
4. WORLDS GREATEST KITCHEN MANAGER
5. CHARLIE'S LICENSE PLATE
7. CARETAKER
9. MINIE \_\_\_\_\_
12. JERRY'S \_\_\_\_\_ GENUS (SHERRI, MARJORIE, AND JESUS' TOO)
13. TOPIC OF JACK'S THESIS
15. DIRECTOR'S CHOICE
16. SNAKE THAT BIT MARK
19. SEARCH PARTY NEVER FOUND THIS ELLIOTT PLANT
20. WAIT FOR THE GREEN LIGHT TO STOP FLASHING
24. IMPORTANT GEL ITEM #2



# CONGRATULATIONS

# JACK

JULY 18, 1986

Stewart A. Colley, M.S.

Size-Dependent Distribution in a Plethodontid Salamander



**BEHAVIORAL ECOLOGY:** Jerry Wolff, Maria Lukowsky, Maureen Sullivan, Vivian Duisit, Karen Galloway, Ron Pulliam, Marie Ragland



**ALLOZYME:** L to r Row 1: Dale McCoy, Alicia McCov, Amy Knight, Marie Ragland Row 2: Ramone Baccus, Vivian Duisit, Mark Attlesey, Karen Galloway, Rhine Singleton, Chris Eastman



**WHAT A CREW!** Frt. Mark Attlesey Back: Chris Eastman, Maureen Sullivan, Rob Gribben, Rhine Singleton, Marie Ragland, Tom Angleberger



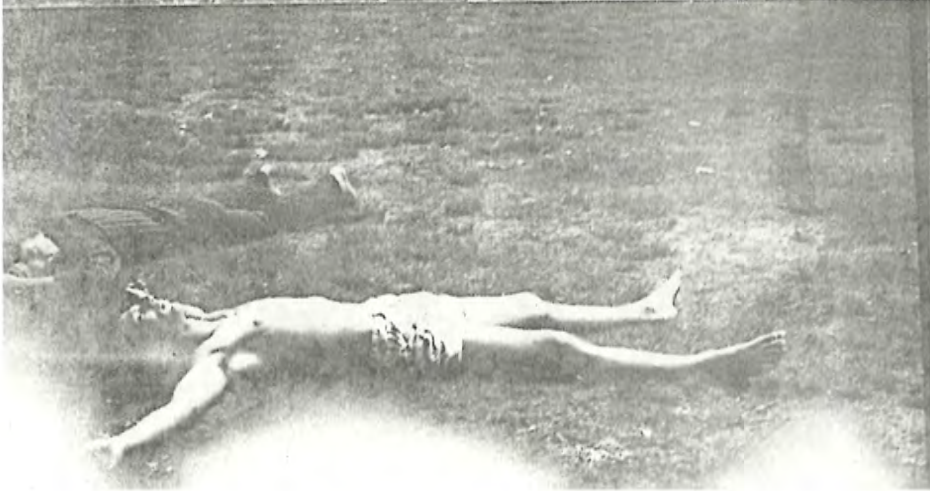
**INSECTS:** Chris Eastman, Sean Skaggs, Christianna Williams, George Byers, Amy Knight, Mike Whitlock, Rob Gribben



**MAMMALS:** Sherri Graves, Jesus Maldonado, Marjorie Maxey, Ramone Baccus, Jerry Wolff



**POLLINATORS:** Bernie Roche, Melanie Shaffer





HERPETOLOGY: Rhine Singleton, Carla Rash, Mark Attlesey, Ron Violet, Hubert Keen, Kevin Brown

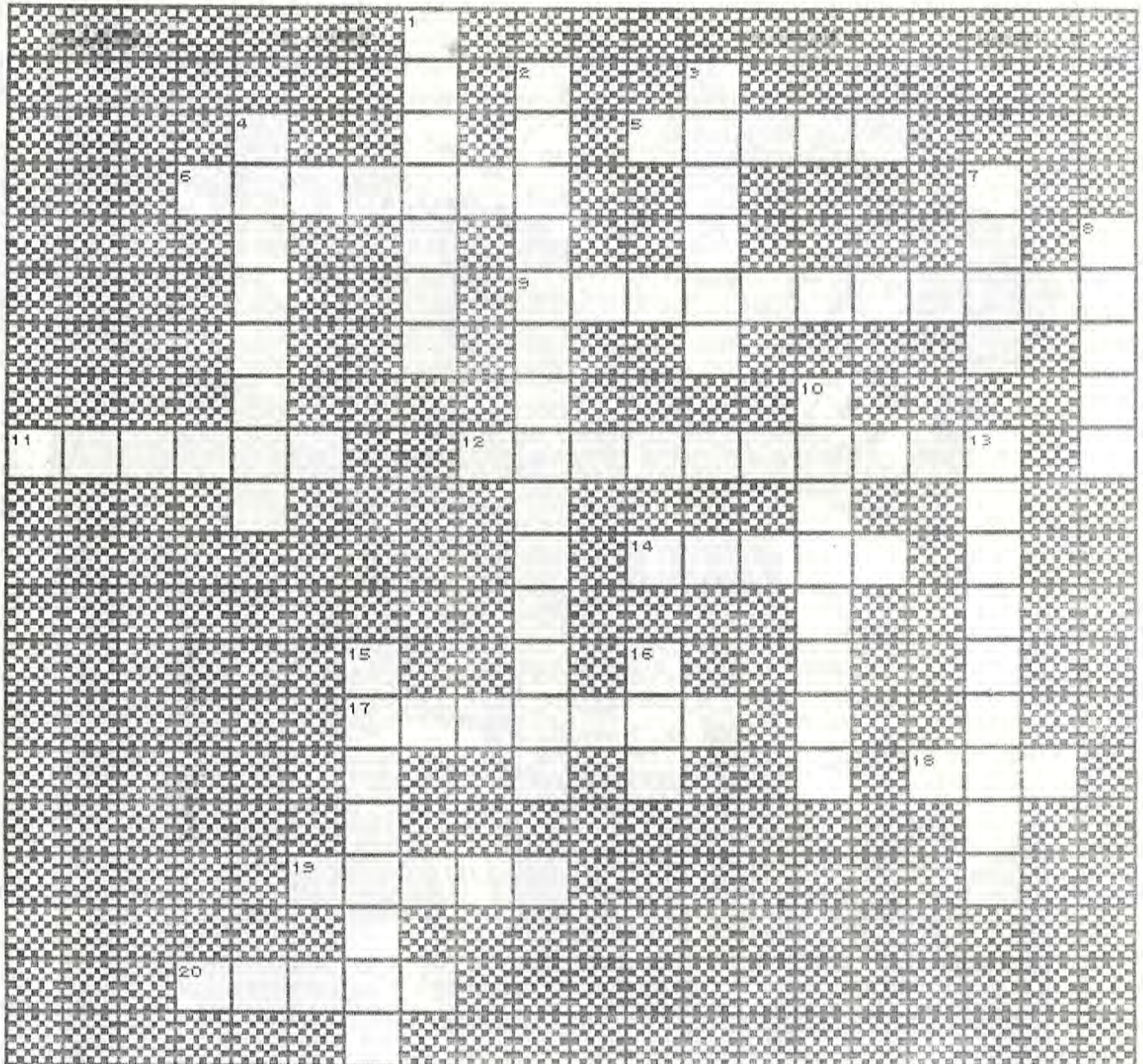


1ST TERM FACULTY: Ron Pulliam, Hubert Keen, Blair Cole, Jerry Wolff, Ramone Baccus, George Byers





TRUTH IS STRANGER THAN FICTION!



ACROSS CLUES

- 5. CAUGHT BY BRUCE GRANT
- 6. YOUNGEST BABY
- 9. A MUDDY EXPERIENCE (2 WDS)
- 11. RAFAEL & SONIA'S HOME
- 12. WORKED ON BY EVOL. GEN. CLASS
- 14. HELEN WILBUR'S BOOTS
- 17. NOISIEST DORM
- 18. UNBEARDED FACULTY MEMBER
- 19. "WE WERE ONE WITH THE \_\_\_\_\_"  
-JOE TRAVIS
- 20. NUMBER OF HELENS

DOWN CLUES

- 1. HUBERT'S PARTY
- 2. SEARCHED FOR BY QUANT. CLASS
- 3. MICHAEL + GRAZYNA'S HOME
- 4. GOOD PLACE FOR SUNSETS
- 7. HAPPY BABY
- 8. WINNER OF NATURALIST CONTEST
- 10. SATURDAY NIGHT ENTERTAINMENT
- 13. WALTON LECTURER
- 15. EVENING SERENADE
- 16. GLOOM AND \_\_\_\_\_ SETTLED IN DURING  
THE 4TH WEEK



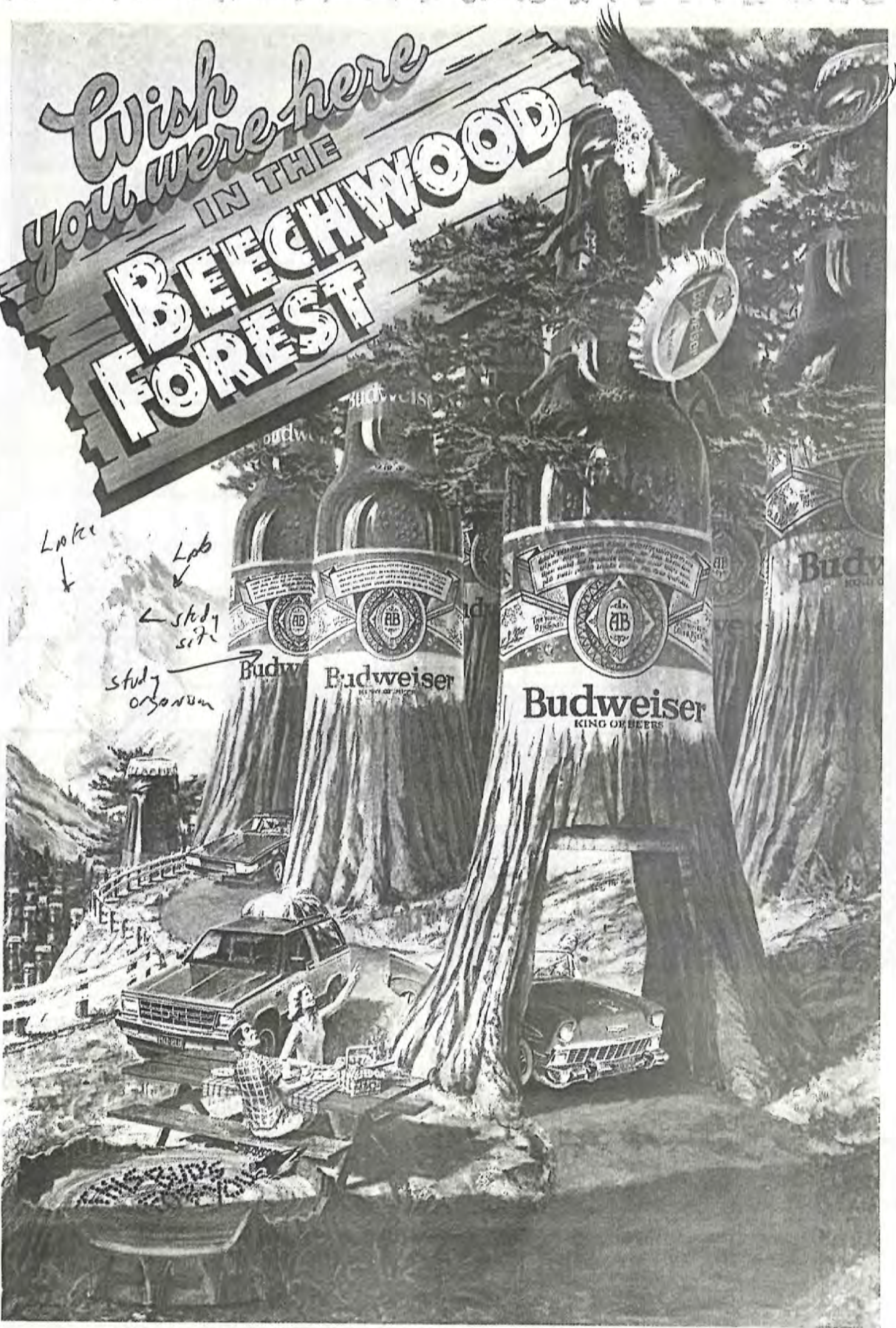
Wish  
you were here  
IN THE  
**BEECHWOOD  
FOREST**

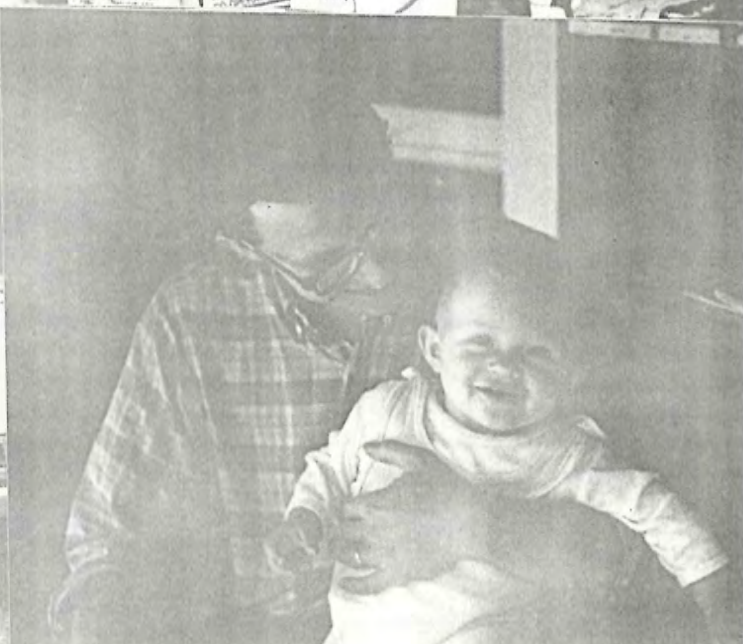
Look  
↓

Lab  
↓

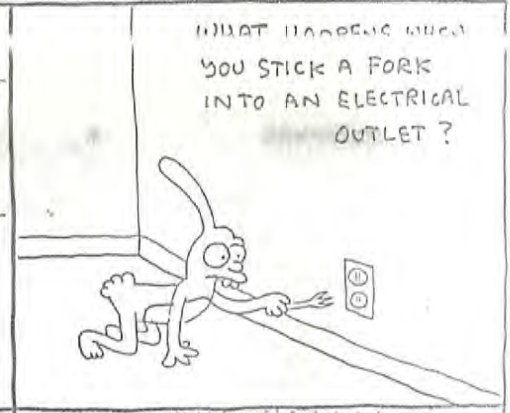
Study  
site  
←

Study  
organism  
→





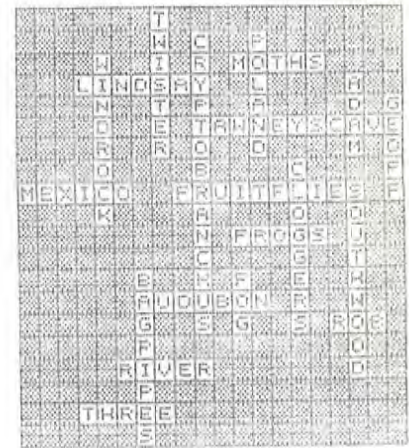
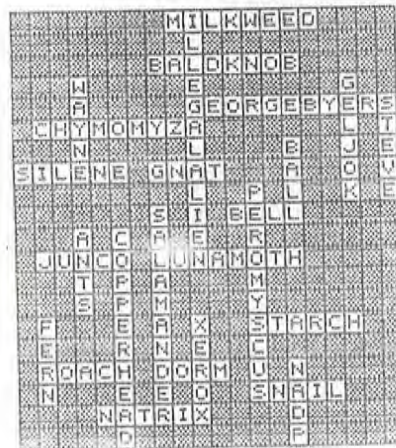
# CHILDREN'S SCIENCE EXPERIMENTS



## Answers to crossword puzzles:

1st term

2nd term



## EVOLUTIONARY GENETICS

More, More! This was the battle cry of the Population Genetics class. Yes, even as we finished counting our 1,000th Drosophila we cried out for more. Even as we sat through the 4th or 5th hour of lecture in one day we cried out for more. Even as we watched the Natural History class out in the rain collecting ferns we turned back to our microscopes and cried out for more. Our hunger for knowledge was insatiable.

For the "Most Memorable Lecture" award, we nominate Bruce's Shifting Balance lecture, demonstrated vividly by Bruce's personally shifting balance. Was it his fault that this particular lecture fell on the Saturday morning after the big three person Birthday Bash? What have we learned from this class? We have learned that the gods of populations genetics are Dobzhansky and Lewontin, but even they can make mistakes.

Although we took only two field trips to look at nature outside the laboratory, we still got to observe nature in the raw. We watched the mating of Drosophila and the tender courtship and consumation of Nasonia vitripennis. These labs provided insight not only into the mating practices of insects, but also in the mating practices (or may be just attitudes) of our classmates. Rare male advantage and the crippled male hypothesis, along with female choice, drive and discrimination were the topics of the day.

Now for some verbal snapshots of our class:

BRUCE GRANT - our leader. We'll remember him for his bagpipes and Biston betularia.

ROB GRIBBEN - our commuter. Rob perfected the art of staring out the window during lectures.

RAFAEL DEL CASTILLO - Mexican import. Rafael was our statistical genius.

DAVE MC DERMOTT - M.D. mimic. His peers called him "Dr. Dave", although he's still a lowly pre-med. He'll do well in medical school, because he doesn't let any dubious fact get by his critical appraisal.

TOM BOYD - crewcut, good looks, and a mean blues guitar.

ANDY RICE - a shy guy who can sing the blues.

Together the Blues Brothers, Tom and Andy, were a team. They called themselves "the undergraduates" and feigned ignorance.

PAUL TEESE - our communer. A mellow sort of guy who resides at the Twin Oaks intentional community. Congratulations Paul, for winning 2nd prize in the Salt Pond Mountain Naturalist contest.

PAM MIDDLETON - the drill sargeant. In the outside world a college professor, at Mountain Lake trying to play the role of student. But those "leadership" qualities still forced their way to the surface.

"ONLY PEASANTS USE A CHI-SQUARE TEST"

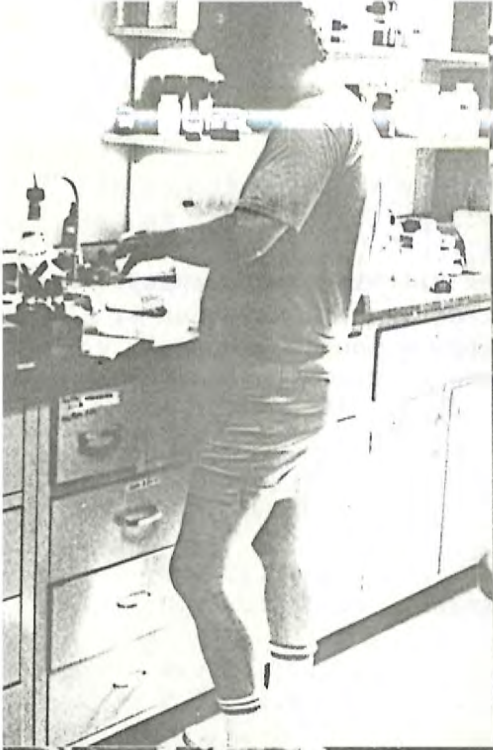
"He's Henry" and "He's Joe", that's how it all began. At first it may have seemed we were just a random distribution of masochistic bio students. You know the type who enjoy "hands and knees", face-in-the-mud field work. But pretty soon even an ignorant skeptic could see the correlation. There was just something different between the two sides of the class. A definite binomially distributed wishy-washiness, ah, ah, they were just...well...just namby-pamby yeah, that's it...that's the ticket. And the other half, well, it's not pretty to see Amianthium or newts that have just been crushed and burned all over. Most of the time they complimented each other pretty well. Could you think of anyone else you'd rather stumble through a tunnel with? No, no other groups runs quite as smart a transect as these guys. And didn't we learn a lot, tons, to put it quantitatively.

Let's regress a minute to recall a few lessons--like never ask for help with your analysis, it always means more work. Never get too close to a Polish baby if you're wearing earrings. Don't go for day trips if you like food, or especially if you are naive about fungus. In fact never even suggest going to a bag if you value the flesh of your shins. We even learned a little statistics if your data's not quite homoscedastic--log it till it's straight then...crank (What is this crank? Just what was the mean idiom count per lecture?) And how about our new found expertise with experimental methods. Though learning from your mistakes can be tough. Hiding sunflower seeds from yourself in six sopping inches of decaying litter is a little like taking your appendix out with a screwdriver. You can do it, but it's not the right tool (it probably won't work either). Yeah, we learned a lot, and even believed most of it, though I think some of us still are a little skeptical about the mortality of lichen.

All in all, a good time was had by most (most of the time) and remember, it's not the quality of your friends that count, it's their quantitative methods!

--Heather Orrison

Darlene Gasperson  
Michal Jasienski  
Keith Karoly  
Amy Knight  
Heather Orrison  
Debbie Perino  
Sonja Scheffer  
Pam Wiener  
JOE  
HENRY



DICHOTOMOUS KEY TO BIO 480

by Stuart Brumfield & Julia Tritschler

These species are all found in the vicinity of Mt. Lake Biological Station. They might be seen out in the field until 5 p.m. However, after 7 p.m. they are most often found in the lab building bitching and moaning. All are often seen eating a brown bag lunch consisting of the following: a PBJ sandwich, a ham & cheese sandwich, carrot & celery, an apple & a chocolate chip cookie.



1. A. Vertebrae intact..... 2  
 B. Vertebra not intact Paula Hill
2. A. Awake for Breakfast.....3  
 B. Rarely awake for breakfast.....8
3. A. Avid joggers .....4  
 B. Not avid joggers.....5
4. A. Considers the angle at which the branches meet the trunk as the most distinguishing characteristic of the Black Gum. Skins squashed rattlesnakes, turkeys and other road-killed specimens .....Paul Silverman  
 B. "The Great Provider"-expert at nabbing goodies from the kitchen ..... Margaret Gore  
 C. "The Navigator"- loves camping in the rain, working with the radio playing, and seining in the confluence of New River & Wolf Creek ..... Stuart Brumfield
5. A. Married..... 6  
 B. Unmarried ..... 7
6. A. Fluent in Spanish. A disjunct species normally found a thousand miles southwest in Mexico ..... Sonia Del Castillo  
 B. Established wolf howler and bird called. Noted for his love of mountain climbing. In the middle of the bog, he dared to ask, "Does anyone have the keys to the van?"..... Rob Simpson
7. A. Lives for dancing, study breaks and trips to Gilly's..... Marie Ragland  
 B. Plays "Volleyball" Georgia Case  
 C. Rarely seen alone at higher elevations. Often lurking in the lab building in search of Rob Simpson ..Julie Tritschler  
 D. None of the above .....11
8. A. Often seen holding a beer; a REAL MAN .....Rick Tavenner  
 B. Not seen with a beer in hand as often..9



9. A. Most interested in the mating habits fof Polytrichum mosses. Our Horton Naturalist from Pippa Passes, near Booger Bottoms, Kentucky..Geoff Gilmore
- B. Not as interested in mosses ..... 10
10. A. Wears a bandana and dips Skoal--characterized by frequent weekend migrations to Eastern Ohio..... Chris Eastman
- B. Mr. Mellow, always has a song in his head. Suspected arsonist in recent prairie fires in the Midwest..... Marc Reichardt
11. Master of the pinning technique, used this method to capture an entire herd of elk bare-handed. A legend in the mind of every Natural History student .....Jock Chamberlain (Hypothetical in the Mountain Lake Area)

IT'S TRUE, ALL TRUE EVEN SO,  
IT JUST DOESN'T MATTER!!

Oops!

6. C. Went on her honeymoon without her husband. A noted landing spot for bumblebee mimics. This species is also proud that she receives fungi and lichen in the mail from her husband..... Sharon Reilly







**NATURAL HISTORY:** Sharon Reilly, Sonia Del Castillo, Rob Simpson, Rick Tavenner, Paul Silverman, Marie Ragland, Paula Hill, Stuart Brumfield, Geoffrey Gilmore, Margaret Gore, Georgia Case, Julie Tritschler, Marc Reichardt



**RESEARCHERS:** Bill Resetarits, Henretta Band, Kathy Lemon, Deb Hlavaty, Blaine Cole, Charlie Werth, Hiro Asami



**ALLOZYMES:** Debbie Perino, Pam Middleton, Keith Karoly, Charlie Werth, Andy Rice, Rob Gribben, Rafael Del Castillo



**QUANTITATIVE METHODS:** Debbie Perino, Michal Jasienski, Keith Karoly, Sonia Scheffer, Heather Orrison, Darlene Gasperson, Pam Wiener, Henry Wilbur, Joe Travis, Amy Knight



**EVOLUTIONARY GENETICS:** Rafael Del Castillo, Andy Rice, Pam Middleton, Dave McDermott, Tom Boyd, Bruce Grant, Rob Gribben, Paul Teese



**2nd TERM FACULTY:** Charlie Werth, Henry Wilbur, Joe Travis, Rob Simpson, Blaine Cole, Bruce Grant

COURSE OFFERINGS    SUMMER 1987

First Term      June 14 - July 18

Ornithology

Kerry and Patricia Rabenold, Purdue University

Plant-Animal Interactions

Steven Handel, Rutgers University

Earl D. McCoy, University of South Florida

Plant Taxonomy

Spencer Tomb, Kansas State University

Workshop in Allozyme Techniques

Charles R. Werth, University of Kansas

Second Term      July 19 - August 22

Community Ecology

Norman L. Christensen, Duke University

Henry Wilbur, Duke University

Mammalogy

Gordon Kirkland, Shippensburg University

Plant Population Biology

Keith Garbutt, Harvard University/West Virginia University



## MOUNTAIN LAKE BIOLOGICAL STATION DIRECTORY - 1986

Alexander, David	Dept. of Biology Bellarmine College Louisville, KY 40205	Writing (Laing South)
Alexander, Helen	Dept. of Biology Univ. of Louisville Louisville, KY 40292	Research (Laing South)
Angleberger, Mary Ann	Rt. 1, Box 152 Mt. Solon, VA 22843	Secretary (Gattinger)
Angleberger, Wayne Tom (15)	Rt. 1, Box 152 Mt. Solon, VA 22843	Business Mgr. (Gattinger)
Asami, Takahiro (Hiro)	Dept. of Biology Univ. of VA Charlottesville, VA 22901	Research (Laundry)
Attlesey, Mark	3289 Edinburgh Dr. Virginia Beach, VA 23452	Herpetology (Deschweinitz)
Baccus, Ramone Dale (1) Alicia (3)	P.O. Box 1011 Prescott, AZ 86302	ALLOZYME WORKSHOP (Michaux)
Band, Henretta (Retta)	Dept. of Zoology Michigan State Univ. E. Lansing, MI 48824	Research (Laing single)
Bishop, John	5 Nursery Lane Westport, CT 06880	Res. asst. (Rathcke) (Audubon)
Boyd, Tom	Box 846 Lexington, VA 24450	Evol. Gen./Photo. (Deschweinitz)
Breden, Felix	Div. of Biol. Sci. Univ. of Missouri Columbia, MO 65211	Research
Brown, Kevin	P.O. Box 157 Newport, VA 24128	Herpetology (Deschweinitz)
Broyles, Steven	Dept. of Botany Univ. of Georgia Athens, GA 30602	Research (Deschweinitz)
Brumfield, Stuart	129 Chancellor St. Charlottesville, VA 22905	Natural History (Deschweinitz)
Byers, George	Dept. of Entomology Univ. of Kansas Lawrence, KS 66045	INSECTS (Laing Center)
Case, Georgia	384 Kenbrook Drive Galax, VA 24333	Natural History (Elliott)

Cole, Blaine	Dept. of Biology Univ. of VA Charlottesville, VA 22901	DIRECTOR/Research (Holbrook)
Colley, Jack	Rt. 2, Box 241 A Haysi, VA 24256	Masters thesis M.S. July 18, 1986
Del Castillo, Rafael	Botany Dept. Duke University Durham, NC 27706	Evol. Gen./ Alloz. (Laing Center)
Del Castillo, Sonia	Botany Dept. Duke University Durham, NC 27706	Natural History (Laing Center)
Duisit, Vivian	106 Kenwood Circle Charlottesville, VA 22901	Behav. Ecology (Chapman)
Eastman, Chris	4220 Shady Oak Dr. Ooltewah, TN 37363	Insects (Deschweinitz)
Gall, Matt	2 Thea Terrace Fairmont, WV 26554	Res. asst. (Stephenson) (Rafinesque)
Galloway, Karen	116 Chandler Court Williamsburg, VA 23185	Behav. Ecol. (Chapman)
Gasperson, Darlene	Gen. Bio. Sta. B, Box 1812 Vanderbilt University Nashville, TN 37235	Quant. Methods (Elliott)
Gilmore, Geoffrey	Alice Lloyd College Pippa Passes, KY 41844	Natural History (Deschweinitz)
Gore, Margaret	Gen. Delivery Brightwood, VA 22715	Natural History (Elliott)
Gould, Fred Lindsay (4)	Dept. of Zoology NC State Univ. Raleigh, NC 27650	
Grant, Bruce Elsbeth (11)	Dept. of Biology College of William & Mary Williamsburg, VA 23181	EVOL. GENETICS (Clayton)
Graves, Sherri	11 Ravenwood Drive Weston, CT 06883	Res. asst. (Wolff) (Elliot)
Gribben, Rob Donna	2001 Birch Leaf Lane Blacksburg, VA 24060	Insects/Evol. Gen./Alloz. (Laing West)
Harrison, Lisa	501 Arbor Drive Columbia, MO 65201	Behav. Ecology (Chapman)
Hart, Bob	1 Hazard Hill Rd. Binghamton, NY 13903	Res. asst. (Keen) (Audubon)
Herr, Andrea	220 Dexter Place Raleigh, NC 27605	Res. asst. (Real) (HentzMohr)
Hill, Paula	P.O. Box 825 Warsaw, VA 22572	Natural History (Chapman)

Hlavaty, Deb	Rt. 5, Box 346 Charlottesville, VA 22901	Res. asst. (Cole) (Laing single)
Jasienski, Michal Grazyna Adam (9 mos)	Winthrop House K-11 Harvard University Cambridge, MA 02138	Quant. Methods/Res. (Schoew)
Jones, Ken	305 Canterbury Cr. LaPorte, IN 46350	Res. asst. (Ketterson) (Audubon)
Karoly, Keith	1509 E. 57th St. #2W Chicago, IL 60637	Quant. Meth./Alloz. (Deschweinitz)
Keen, Hubert	Dept. of Biol. Sci. SUNY Cortland, NY 13045	HERPETOLOGY/Research (Hariot)
Kelly, Carol	Dept. of Plant Bio. 505 S. Goodwin Ave. Urbana, IL 61801	Research (Catesby)
Ketterson, Ellen	Dept. of Biology Indiana Univ. Bloomington, IN 47405	Research (Burns)
Knight, Amy	514 17th St., N.W. Charlottesville, VA 22903	Insects (Chapman)
Lawrence, Steve	MLBS, Rt. 1 Pembroke, VA 24136	Caretaker
Lawrence, Susan Kevin (4) Matt (7)	MLBS, Rt. 1 Pembroke, VA 24136	Librarian
Lemon, Kathy	8020 Orlando Clayton, MO 63105	Res. asst. (Alexander) (Laing single)
Lukowsky, Maria	1218 Warrington Place Alexandria, VA 22307	Behav. Ecology (Chapman)
McCauley, David	Dept. of Biology Vanderbilt Univ. Nashville, TN 37325	Research (Mitchell)
McDermott, Dave	8520 Doter Drive Alexandria, VA 22308	Evol. Gen./Photo. (Audubon)
Maldonado, Jesus	415 Sunset Lane Shippensburg, PA 17257	Res. asst. (Wolff) (Audubon)
Marquis, Robert (Bob)	Dept. of Entomology 505 S. Goodwin Ave. Urbana, IL 61801	Research (Catesby)
Massey, Adrienne	Dept. of Biology NC State Univ. Raleigh, NC 27650	Research

Maxey, Marjorie	106 Ivy Drive #8 Charlottesville, VA 22901	Res. asst. (Wolff) (Laing single)
Middleton, Pam	Box 772 Hanover, IN 47243	Evol. Gen./Alloz. (Laing single)
Nalepa, Christy	Dept. of Entomology NC State Univ. Box 7613 Raleigh, NC 27695	Research (Laing single)
Nguyen, Tuan	256 Pinecone Drive Lawrence, KS 66044	Res. asst. (Werth) (Audubon)
Nolan, Val	Dept. of Biology Indiana Univ. Bloomington, IN 47405	Research (Burns)
Orrison, Heather	P.O. Box 1140 Purcellville, VA 22132	Quant. Methods (Elliott)
Perino, Debbie	8218 Stationhouse Ct. Lorton, VA 22079	Quant. Meth./Alloz. (Elliott)
Pulliam, Ron Janice Julie (6)	Dept. of Zoology Univ. of Georgia Athens, GA 30602	BEHAV. ECOL. (LeConte)
Ragland, Marie	4211 Webster Court Annandale, VA 22003	Behav. Ecol./Nat. History (Chapman)
Rash, Carla	218 Jonestown Rd. Asheville, NC 28804	Herpetology (Chapman)
Rathcke, Beverly	Div. of Biol. Sci. Univ. of Michigan Ann Arbor, MI 48109	Research (Schoew)
Real, Les Deede	Dept. of Zoology N.C. State Univ. Raleigh, NC 27607	Research (Maphis)
Redmond, Ann Helen (16 mos)	2039 Florida Ave. Tallahassee, Fl 32303	(Michaux)
Reichardt, Marc	325 S. Park LaGrange, IL 60525	Natural History (Audubon)
Reilly, Sharon	209 N. Columbus St. Alexandria, VA 22314	Natural History (Elliott)
Resetarits, Bill Cheryl	Dept. of Zoology Duke University Durham, NC 27706	Research (LeConte)
Rice, Andy	111 Shirley St. Winchester, VA 22601	Evol. Gen./Alloz. (Deschweinitz)

Roche, Bernie	7 Keenan Place Garden City, NY 11530	Res. asst. (Real) (HentzMohr)
Scheffer, Sonja	2562 Observatory Ave. Cincinnati, OH 45208	Quant. Methods (Elliott)
Shaffer, Melanie	3617 Bowling Drive Raleigh, NC 27606	Res. asst. (Real) (HentzMohr)
Silverman, Paul	2500 Hanover Ave., #2 Richmond, VA 23220	Natural History (Audubon)
Simpson, Rob	Lord Fairfax Comm. College P.O. Box 47 Middletown, Va 22645	NAT. HISTORY/PHOTO. (Maphis)
Singleton, Thomas (Rhine)	1830 Carrs Hill Rd. Charlottesville, VA 22903	Herpetology (Deschweinitz)
Skaggs, Sean	11123 Leesburg Pike Herndon, VA 22070	Insects (Audubon)
Smith, Ethel	2490 Kenilworth Rd. Cleve Hgts, OH 44106	Res. asst. (Rathcke) (HentzMohr)
Spanyer, Carroll	2705 Tregaron Ave. Jeffersontown, KY 40299	Res. asst. (Alexander) (Elliott)
Stephenson, Steve	1115 Morningstar Lane Fairmont, WV 26554	Research (Rafinesque)
Sullivan, Maureen	12306 Harbor Drive Woodbridge, VA 22191	Behav. Ecol. (Elliott)
Tavenner, Rick	1118 W. Church Rd. Sterling, VA 22170	Natural History (Audubon)
Teese, Paul	Twin Oaks Community Louisa, Va 23093	Evol. Genetics (Deschweinitz)
Travis, Joe	Dept. of Biol. Sci. Florida State Univ. Tallahassee, FL 32306	QUANT. METHODS (Michaux)
Tritschler, Julie	Peters 247 Univ. of Va. Charlottesville, VA 22904	Natural History (Chapman)
Vardaman, Sandy	7925 Miramar Pkwy Miramar, FL 33023	Res. asst. (Real) (HentzMohr)
Violet, Ron	S.R. 33, Box 18 Standardsville, Va 22973	Herpetology (Deschweinitz)
Waak, Marianna	123 Jokake Ranch Rd. Prescott, AZ 86301	Sitter (Baccus) (Michaux)

Wade, Michael	Dept. of Biology Univ. of Chicago Chicago, IL 60637	Research
Werth, Charlie	Dept. of Botany Univ. of Kansas Lawrence, KS 66045	ALLOZ. WORKSHOP/Research (Banister)
Whitlock, Mike	100 Hannah Drive Clinton, MS 39056	Insects (Deschweinitz)
Wiener, Pam	304 Smith Charlottesville, VA 22903	Quant. Methods (Elliott)
Wilbur, Henry Becky Helen (3) Lindsay (4 wks)	Dept. of Zoology Duke University Durham, NC 27706	QUANT. METHODS (Hentz-Mohr)
Williams, Christianna	1018 Iredell St. Durham, NC 27705	Insects (Elliot)
Wohltman, Melissa	5443 S. Woodlawn Ave. Apt. 1, South	Res. asst. (McCauley) (Elliot)
Wolf, Licia	Dept. of Biology Indiana Univ. Bloomington, IN 47405	Research (Laing North)
Wolff, Jerry	Dept. of Biology Villanova Univ. Villanova, PA 19085	BEHAV. ECOL./Research (Clayton)
Ziemer, Laura	1918 Ruby Lane Bloomington, IN 47401	Res. asst. (Ketterson) (Laing single)
Ziegenfus, Charles (Zig)	Math & Comp. Sci. Dept. James Madison Univ. Harrisonburg, VA 22801	Res. asst. (Ketterson) (Laing NW)

#### ADDITIONS

McManus, Mike	411 E. College Ave., Apt 2 Tallahassee, FL 32301	Res. assist.(Keen)
Reed, Ron	RD 2 , Box 223 Locke, NY 13092	Res. assit. (Keen)