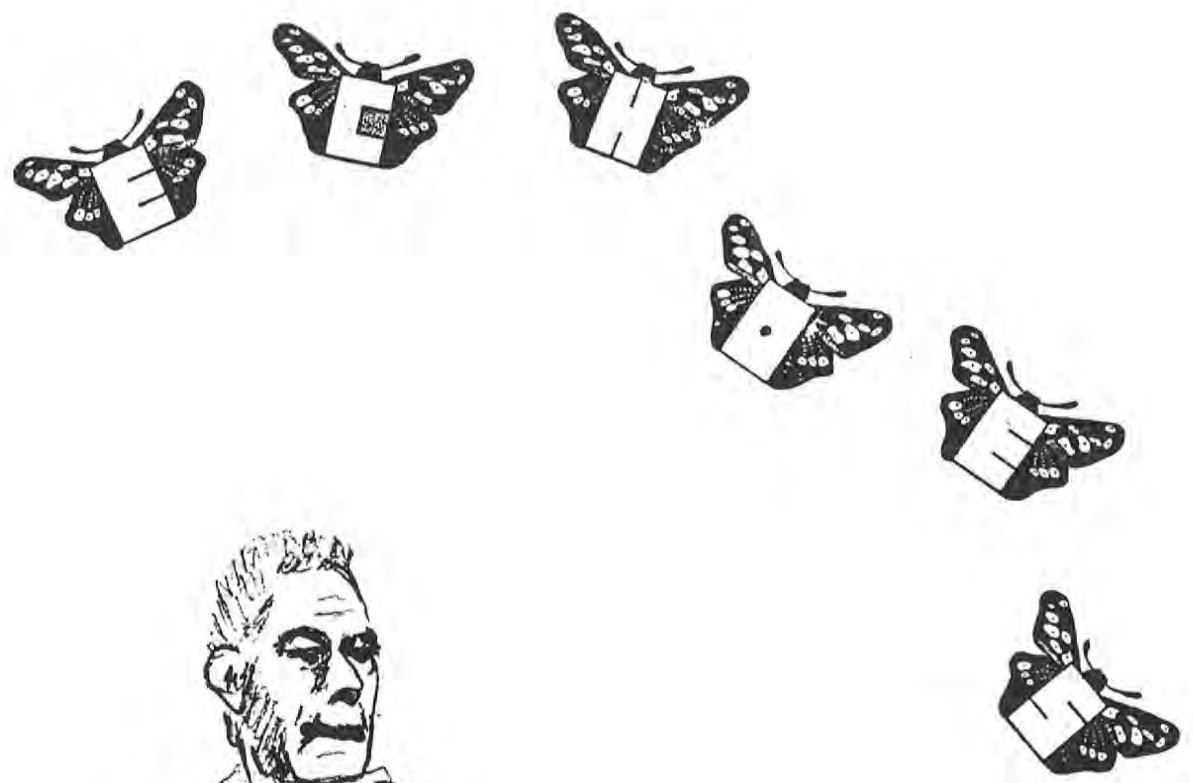


M
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90



View From the Mountain Top

The big news, of course, is that Henry Wilbur has made it official. He is to be the new Director of the Station, beginning June 1st of next year. That means that we will be working closely together this winter to organize the program for the coming year. The Wilburs were seen to be taking hold during the weekend visit this fall of the Friends of Mountain Lake. Mercifully the weather was beautiful, and there was no hurricane Hugo to clean up after. That meant that lots got done in the way of painting, puttying, trail clearing, and wood cutting. The most dramatic project was the destruction of the bathrooms in Chapman and Stephen Elliott. We fully expect them to arise, phoenix-like, from the wreckage, under the aegis of Julian McCroskey. Those of you who haven't experienced the joys of a Friends Weekend should think about joining us next spring.

We are just about settled on the teaching program for next summer. In the first session two old-timers will be back. Dave West will give his course in Ecological Genetics, and Jack Cranford will teach Mammalogy. They will be joined by Bob Jaeger, who will be offering a course in Behavioral Ecology. Bob has worked in the area and has had students at the Station, but this will be his first time on the faculty.

During the second term Spencer Tomb will be giving his inimitable performance in Plant Taxonomy, and Joe Travis will be on board for Community Ecology, with an additional draft choice yet to be named. There will be two workshops: Charlie Werth's evergreen Electrophoresis, and the Dan Burke and Mike Timko dog and pony show Molecular Techniques for Field Biology.

Realizing that this is the last time that I will be writing to you in the Echoes evokes a certain nostalgia. I won't, however, be abandoning Mountain Lake. I expect to be seeing you all next summer, helping to get Henry's regime off to a flying start.

So, good times and Godspeed to you all,

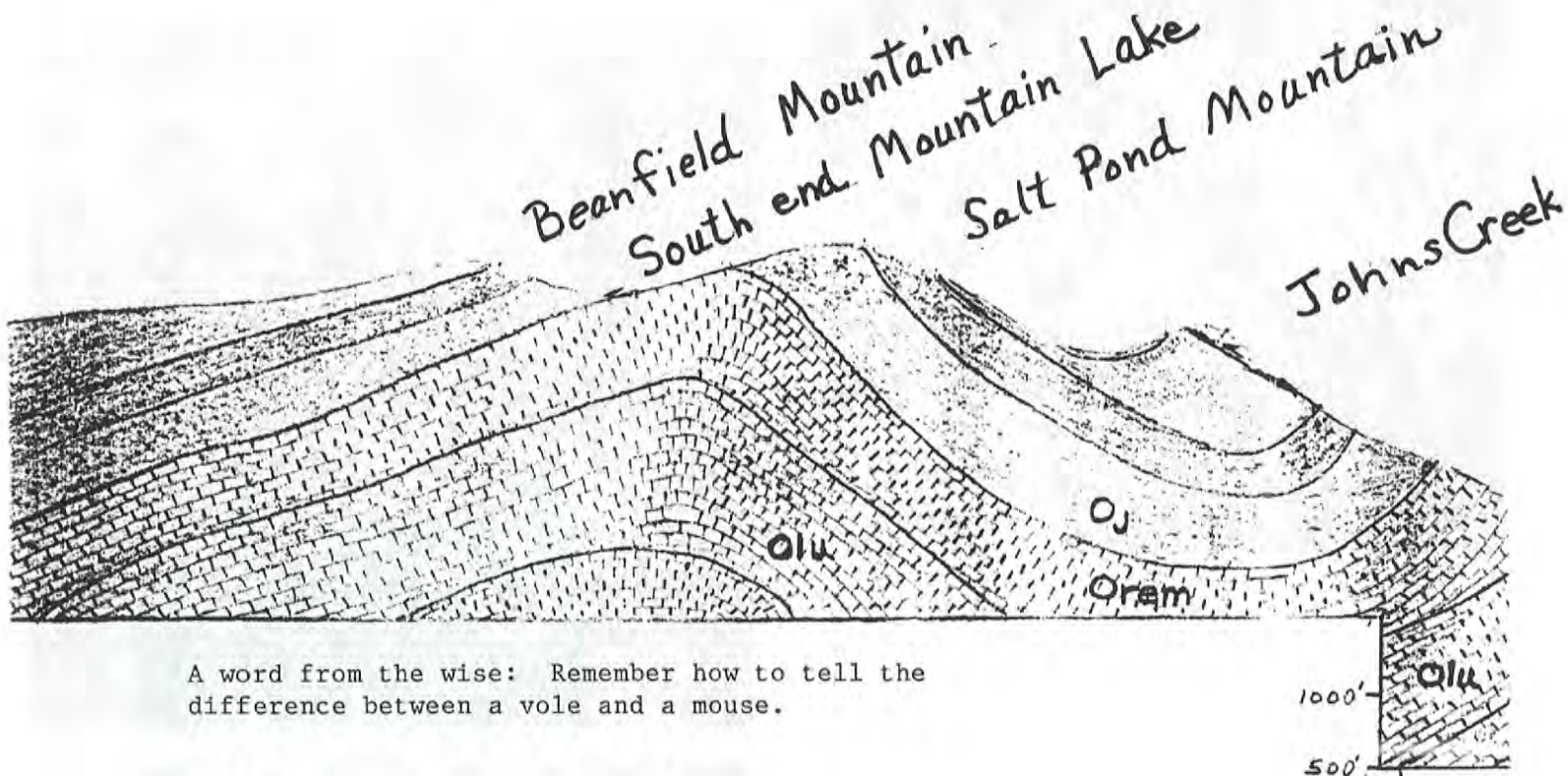
Jim Murray

NATURAL HISTORY OF THE SOUTHERN APPALACHIANS
Summer 1990 First Term MLBS

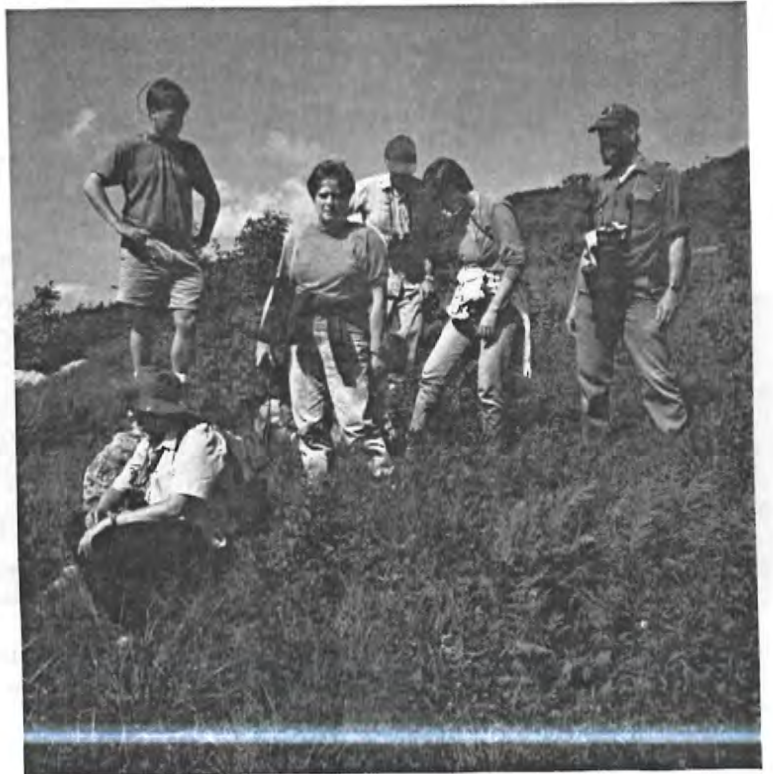
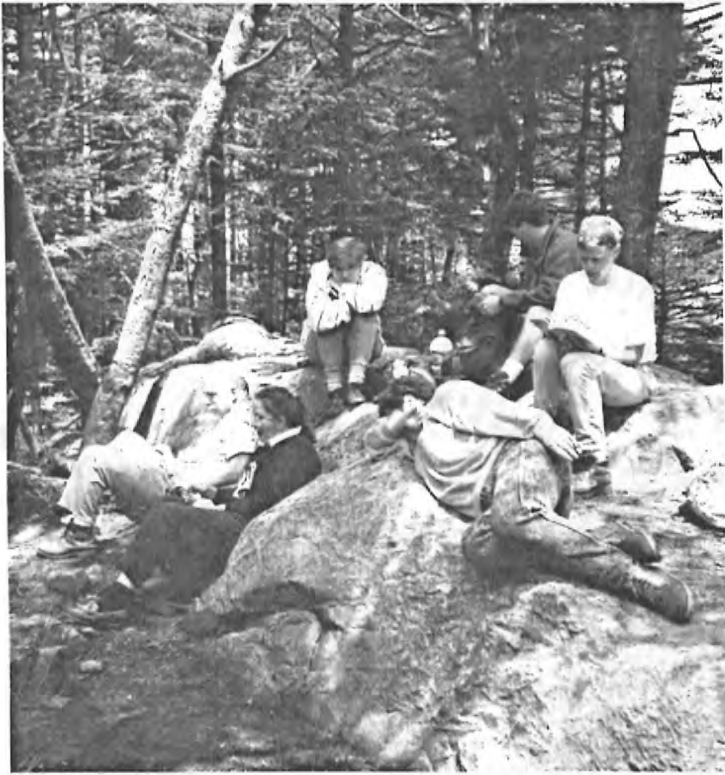
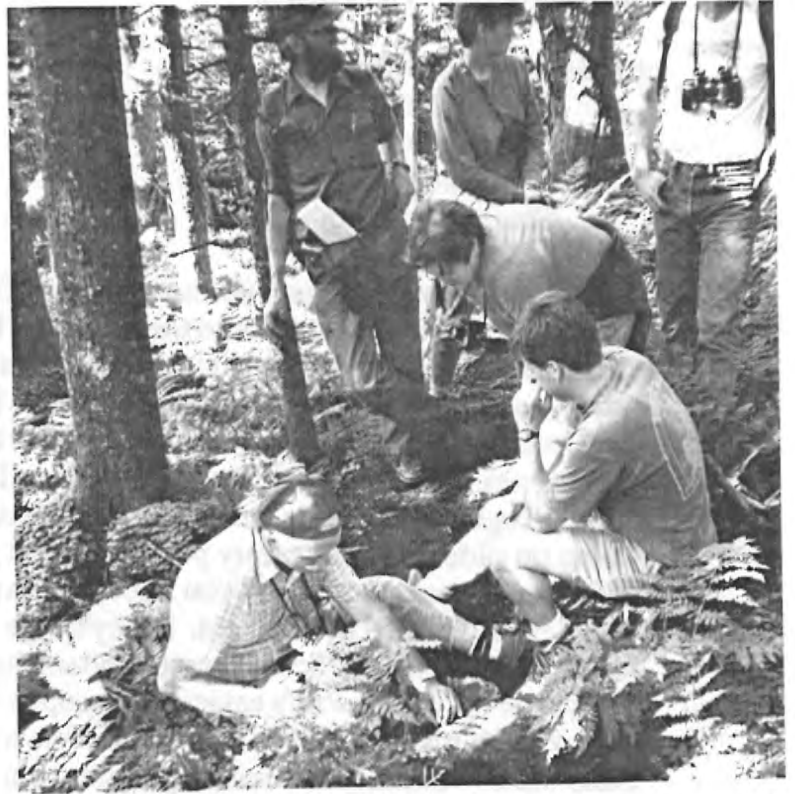
Instructor: Dr. Phil Shelton

Students: Kathy Bryan
Phyllis Wells
Betty Baker
Scott Caudill
Charles Frankum

Memories: Maps, maps, and more maps. Topo, geological, directional, Sitting on Butt Mountain estimating distances to the horizons. Dips and strikes with that ever loving Brunton Compass (is there anything that instrument can't do?) Ah, BLOWDOWNS. Why use a trail when you can get there on your hands and knees? An arboreal experience also using wet mossy trees as foot trails. (But they're six or seven feet off the ground. Agg!) Munchies on the trail: Blueberries. Yumm. Serviceberries. Yumm. Dr. Murray taught us about eating Spruce tips on Mt. Rogers. (Not quite yumm...but interesting, probably an acquired taste). Mnemonics: Come on slide down my pretty peach tree just catch the Queen. Pigeon egg omlettes make make people puke hard. Did you know you can use OFF as a firestarter? Betty's handouts: whether you wanted them or not. Kathy's urge to get on down the trail. Charles's urge to get back...from anywhere. Scott's humor and singing on the hillcrests. Phyllis's cross sections (but she was never cross). Phil's eastern philosophy: don't tear up the forest taking samples, don't bother the birds with bird calls, take the time to listen to the sounds of the woods.
Class Motto: In times of stress, organisms turn to sex.



NATURAL HISTORY IN THE FIELD





The library ceiling did what





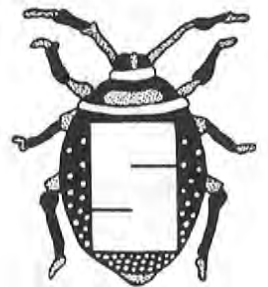
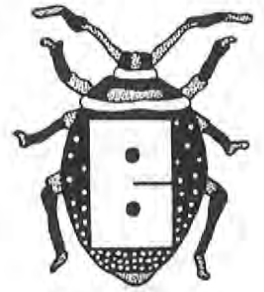
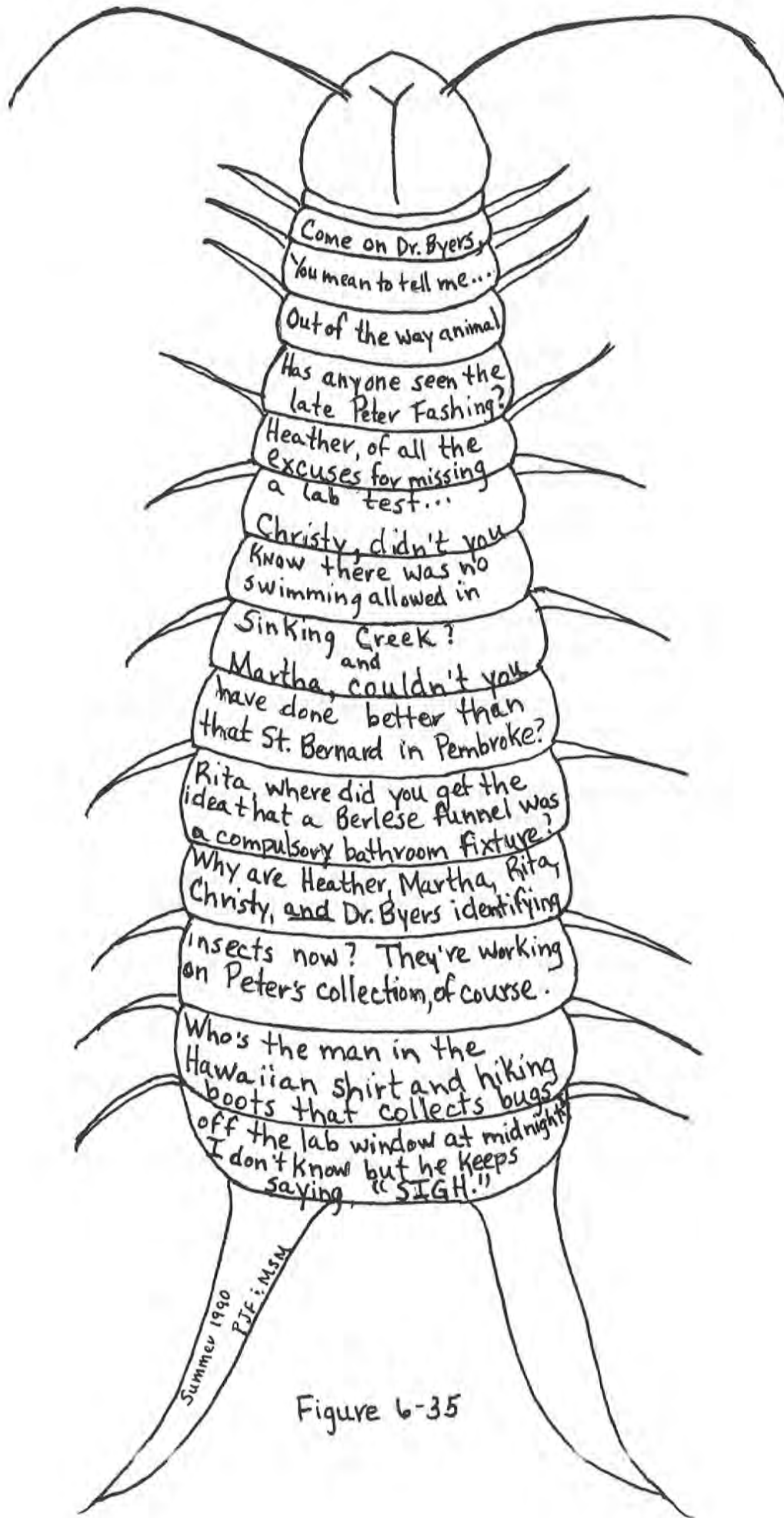


Figure 6-35

TODAY'S HOROSCOPE

Capricorn - Your love life suffers as soulmate confesses an infidelity. Use discretion when operating electrical equipment. Focus on skin diseases.

Pisces - Aquarius rising in your 5th moon doesn't mean a whole lot. Choose leafy greens over fleshy fruits. A Libra thinks you're OK today.

Aquarius - Focus on failure. Even the most basic of life's survival skills become exceedingly painful for you. Highlights include suffering and masochism

Aries - Motor skills peak at an all time low. Beware of falling into geosynclines and ditches. Throat lozenges may improve your self confidence.

Taurus - Today's agenda includes lust and carnal desires. Be saucy as you "get while the getting's good." You will crush a Leo today on your rise to the top.

Gemini - The world appears rosy as you soar into ethereal realms. Let your soul fly with the juncos today. Don't let that bitchy Pisces bring you down!

Cancer - Grooming habits are exceptional. Today would be a good day to deny that nasty habit that alienates you from most other people

Leo - Your eyes are filled with stardust as your true love gives you the time of day. Focus on androgeny and poly-rays to snag that special someone.

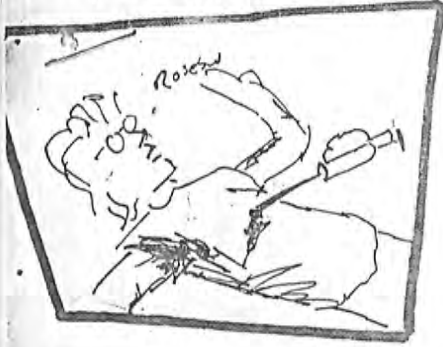
Virgo - You will need to have all your wits about when a Capricorn tries to crack you open. Don't reveal any secrets about past/present/future sexual liaisons. Focus on pets.

Libra - The proximity of Jupiter's 5th moon allows carcinogens to mutate much of your innards. Remember that life is short and someone could be out to get you (probably that pesky Scorpio!)

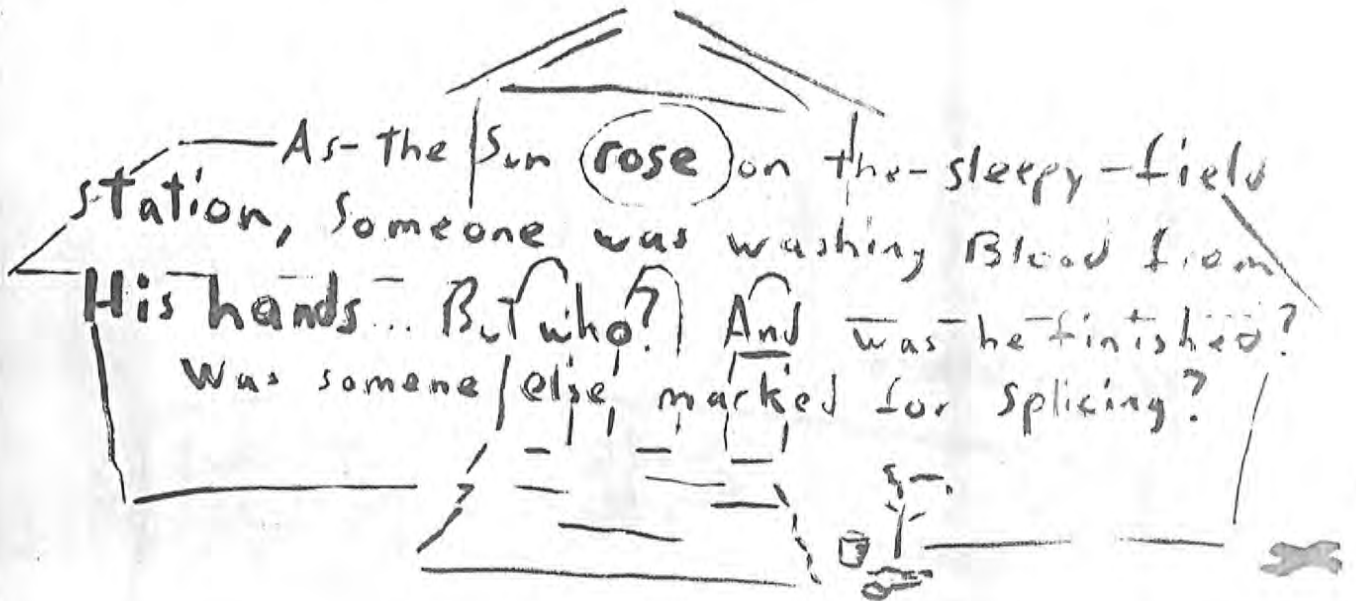
Scorpio - Divert your attention to body image. Mix and match those accessories and gain a few pounds. Remember, pond scum always rises to the top.

Sagittarius - Although your world falls apart today, there is hope. The support of the few friends you have left is almost adequate to pull you through. A natural laxative may improve your dismal outlook.

From the Dark innards of Dave's subconscious ... Casual Peats



They found the librarian too late. The Eppendorf pipette in his chest had delivered it fatal merchandise - Gel starch.
The tiny community was shaken. How could one of them be a Murderer? They were all so Normal - or were they?



As the Sun (rose) on the sleepy-field station, someone was washing Blood from His hands... But who? And was he finished? Was someone else marked for splicing?



Oh, yeah, we'll get him. Don't you worry, son.

Match wits against the Hardboiled detective, Officer Roche. As we Explore the weird happenings in Casual peats -

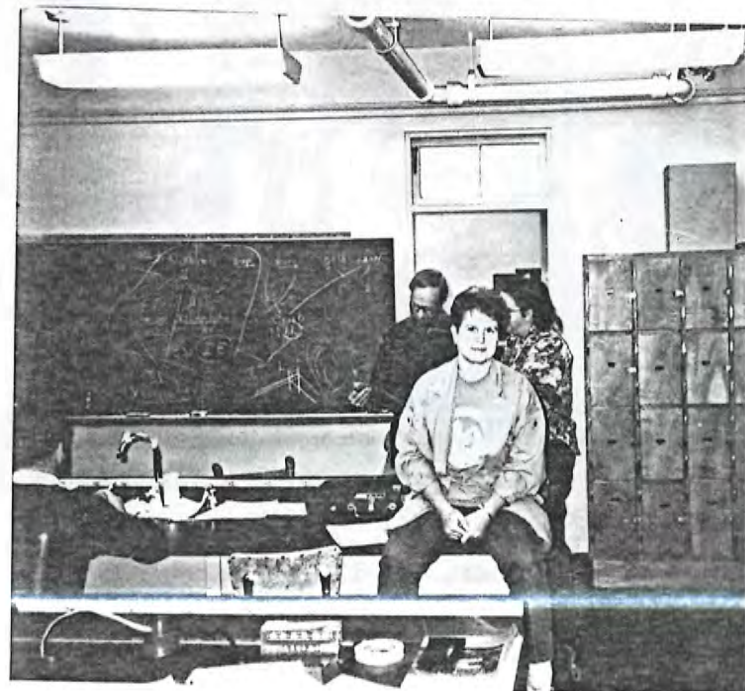
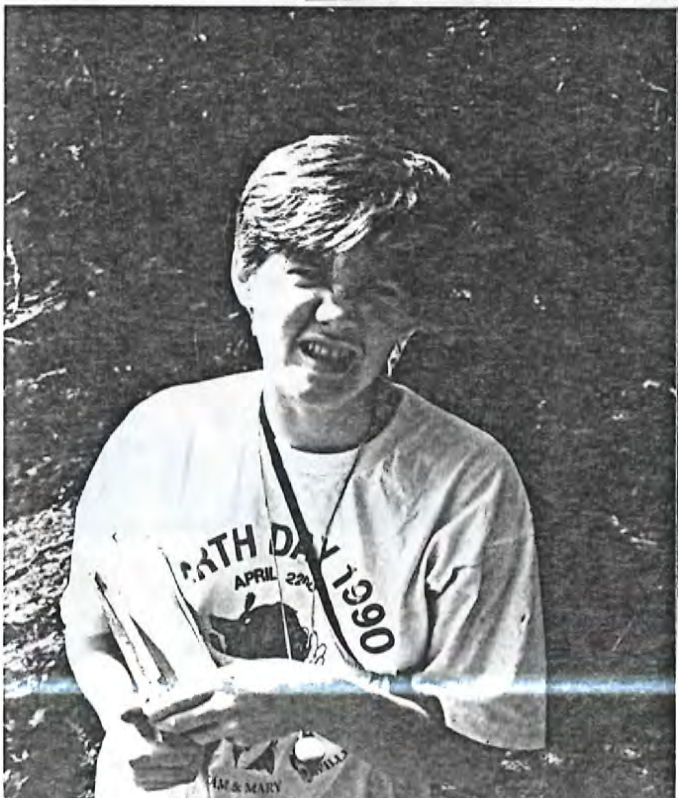
Meanwhile...

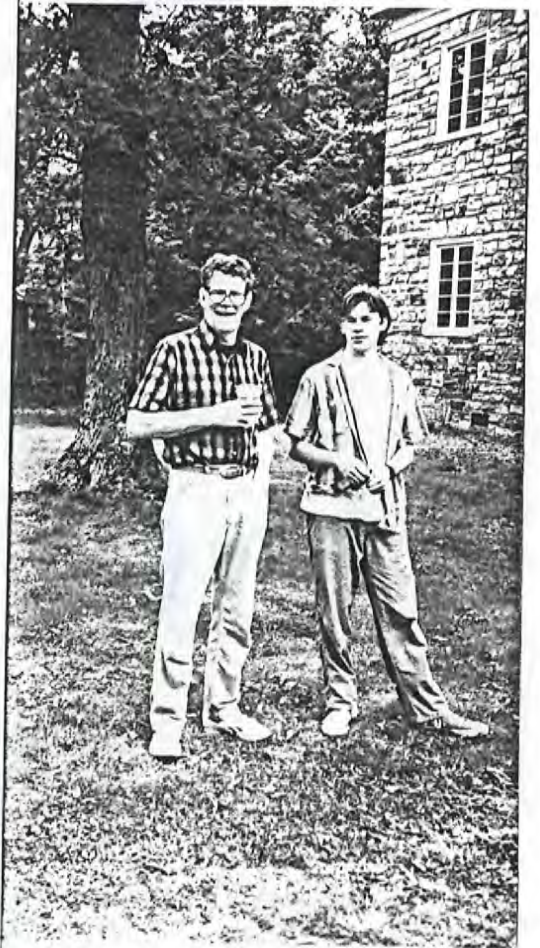
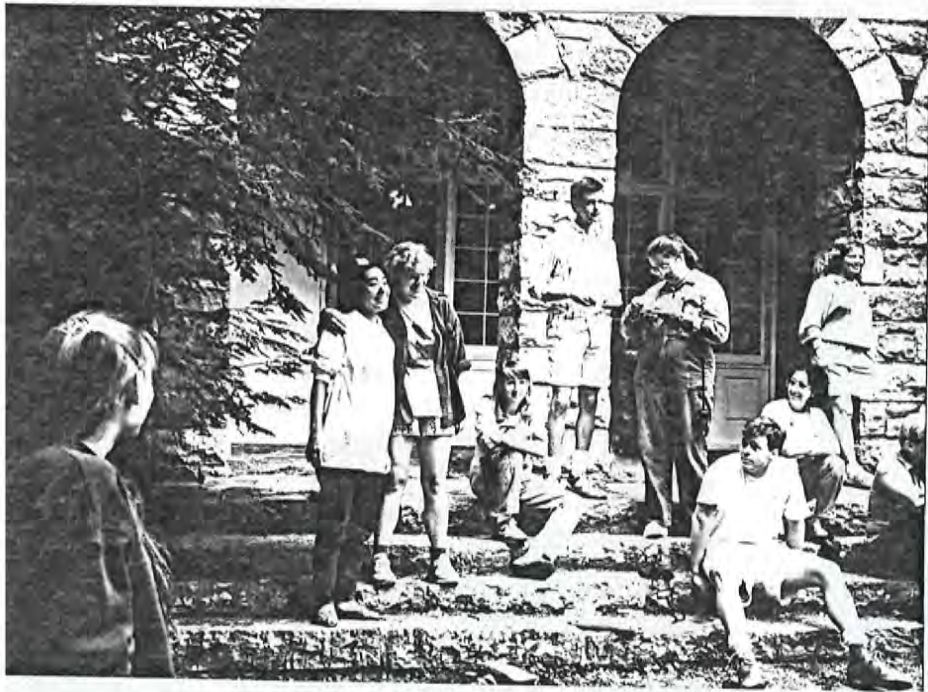


The lights are out! Allow the Killer to hide His Tracks.



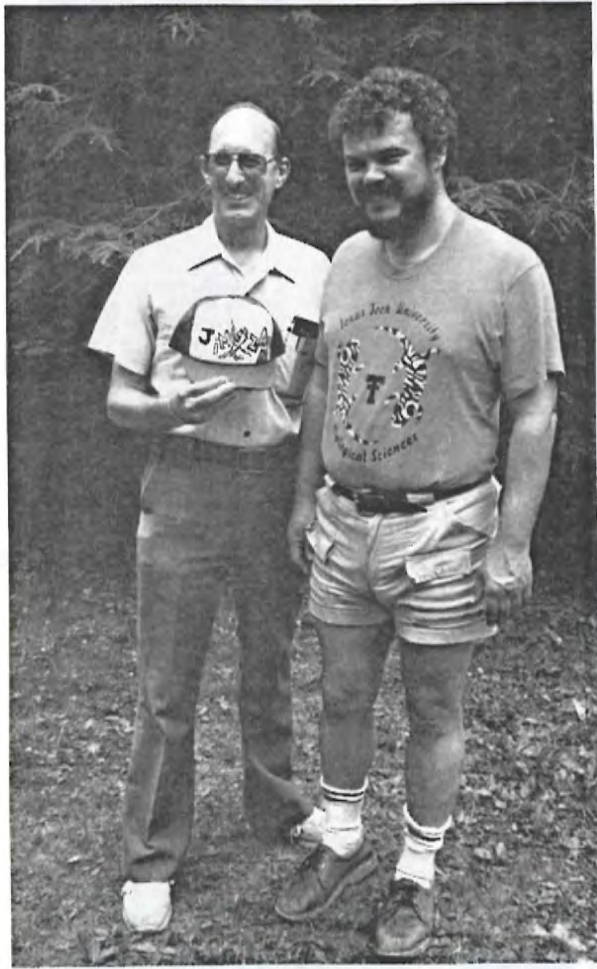
The lightning picks out a figure running from the lab... Carrying a box of some kind







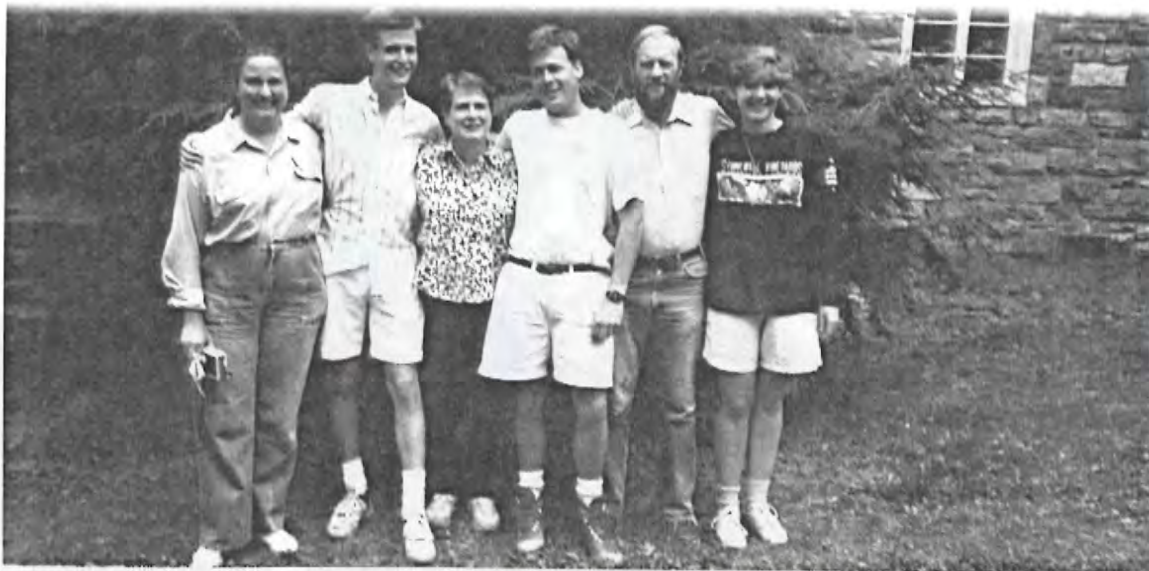
PICTURE DAY



CHARLIE & JIM MODELING
THE LATEST IN JIMZAN &
TEXAS TECH WEAR



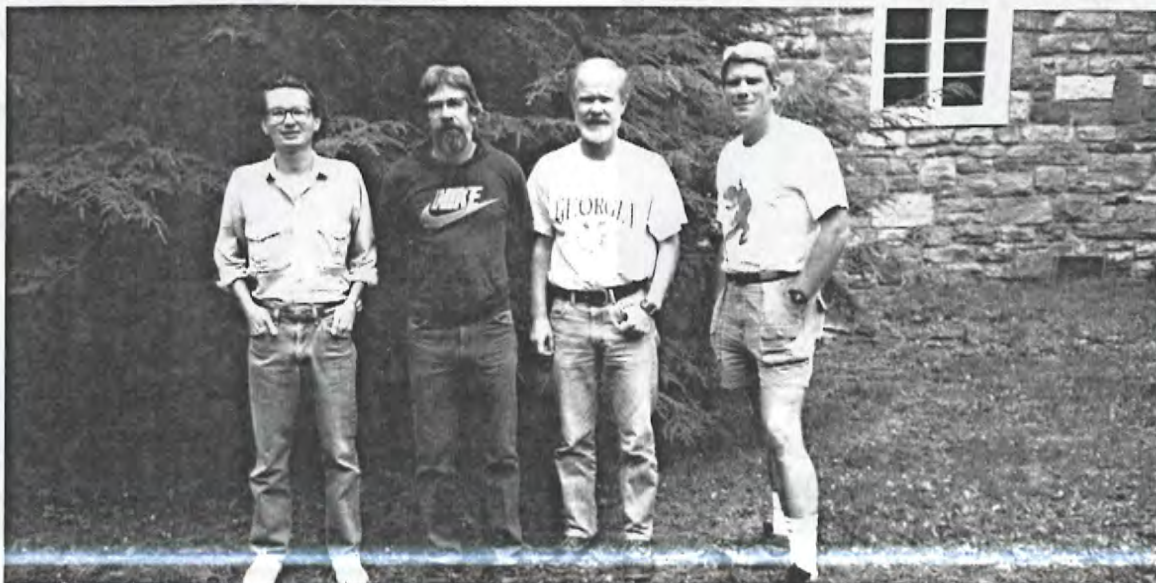
A REAL DELTA DELTA DELTA!!!



NATURAL HISTORY OF SO. APPALACHIANS
Betty Baker, Scott Caudill, Phyllis Wells, Phil Shelton, Kathy Bryan



ENTOMOLOGY
Peter Fashing, Martha Moses, Heather Thoenelt, Rita Hyatt, George Byers, Christy Nalepa



WORKSHOP FOR SECONDARY TEACHERS:
Greg Deskins, John Byrd, Jerry Wolff, Fred Holtclaw



JUNCO FLOCK

Sammrah Raouf, Ellen Ketterson, Michelle & Houston Chandler, Ray Chandler, Sanam Radjy, Charles "Zig" Ziegenfus, Val Nolan, Larry Callahan, Dan Cullen



WOLFF PACK

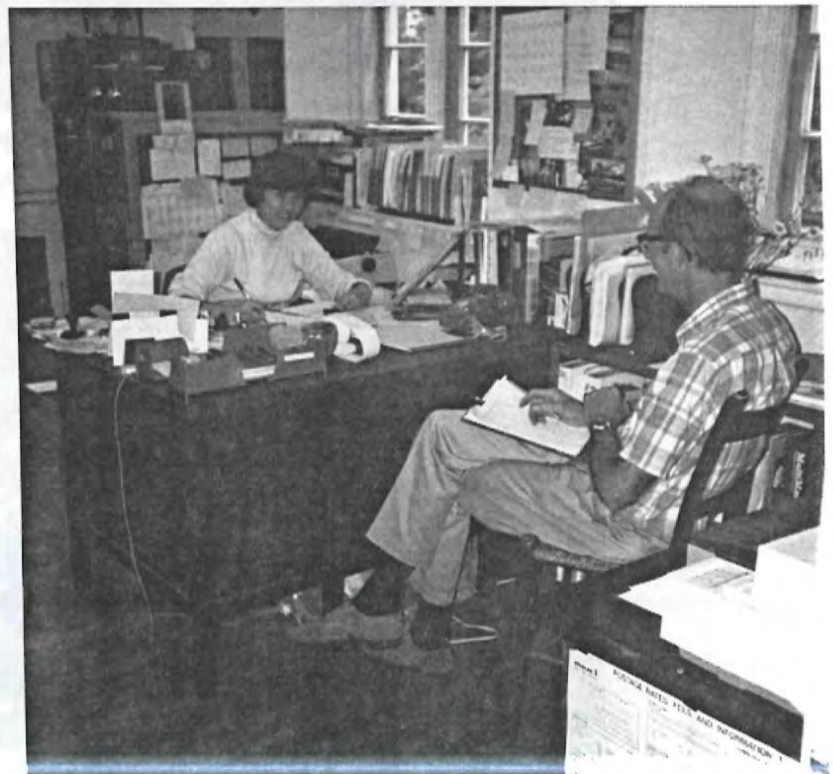
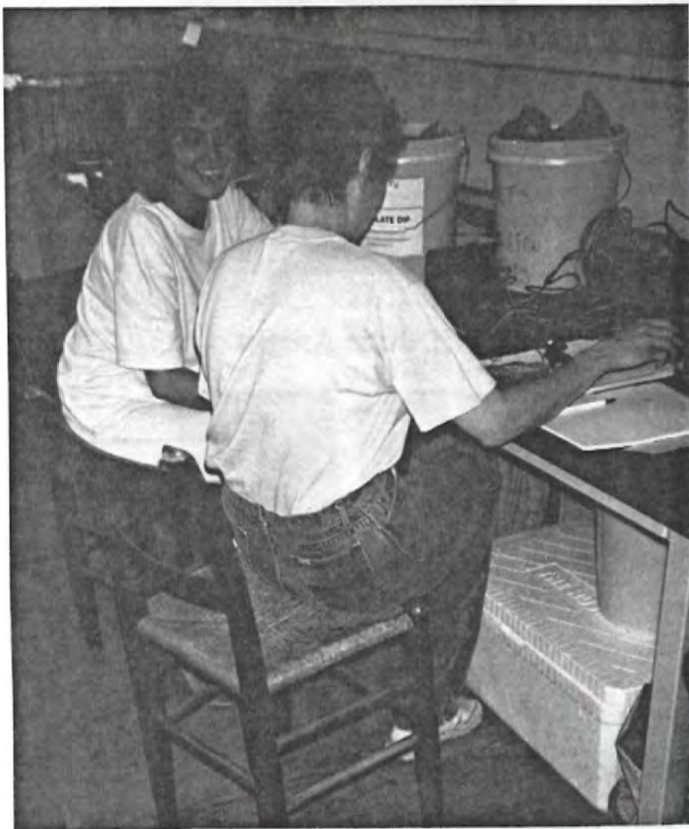
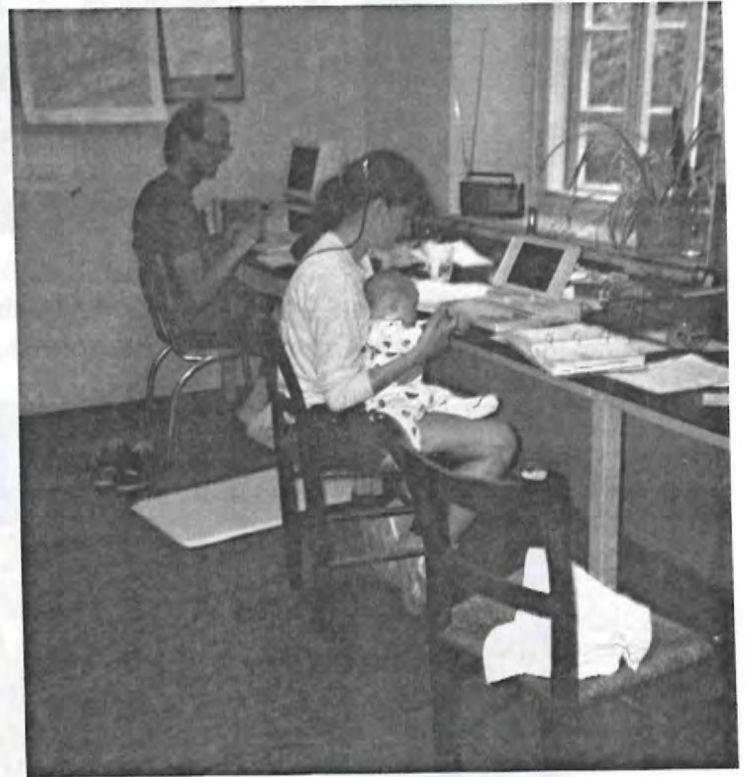
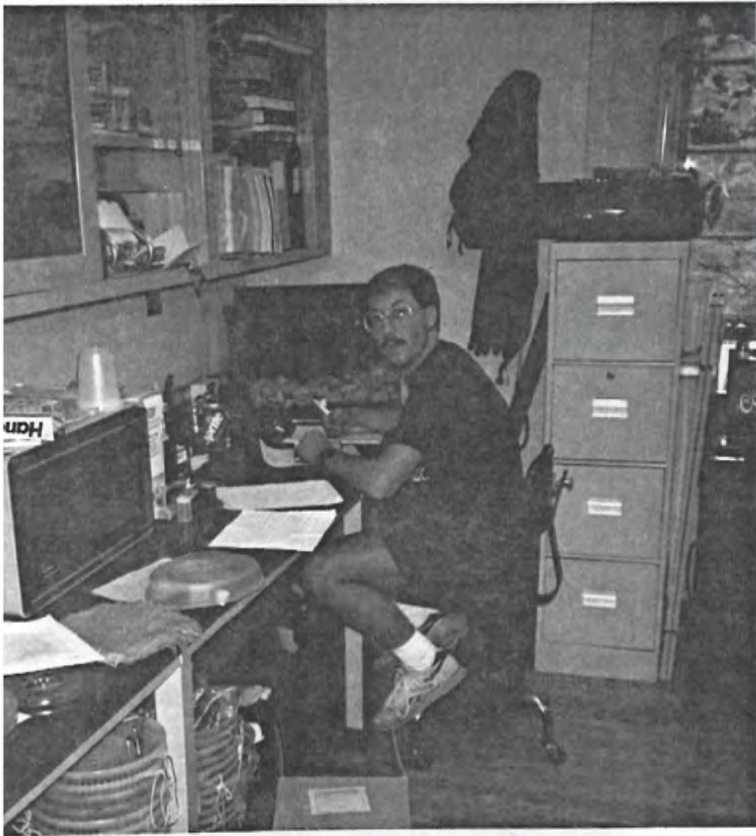
Jennifer Cook, Kathryn Gubista, Kirsten Siex, Jerry Wolff, Julie Knight

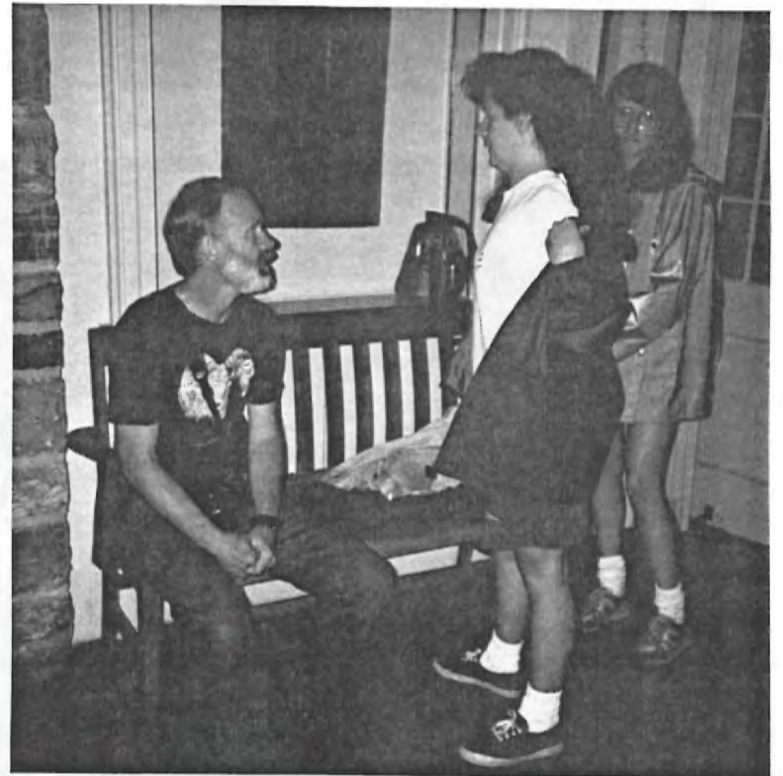
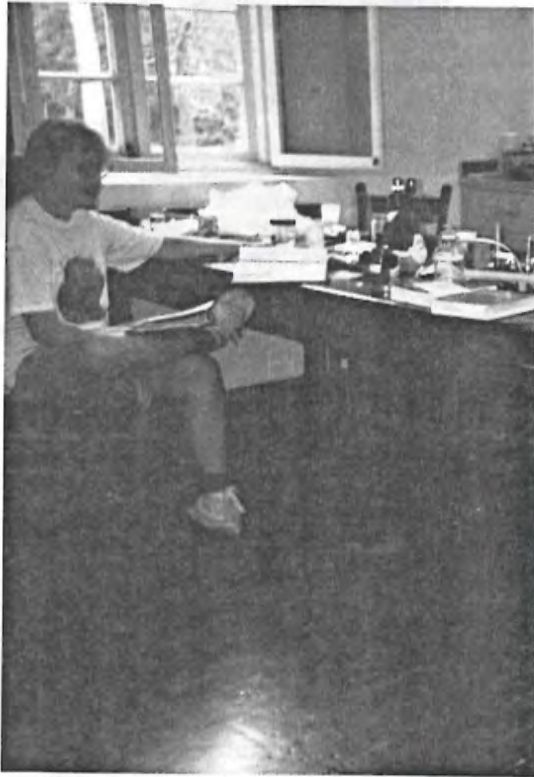
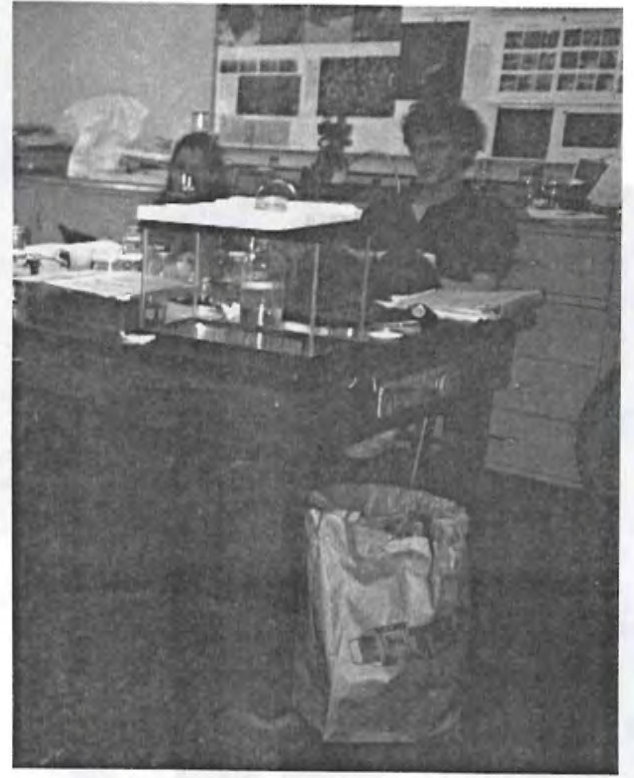


RESEARCHERS

Jim Parks, Charlie Werth, Julie Carlin, Lorraine Kohorn, Deb Hlavaty, Mark Hartman, Linda Fink, Libby Marschall, Bernie Roche

CASUAL WORK





WALTON LECTURE RECEPTION

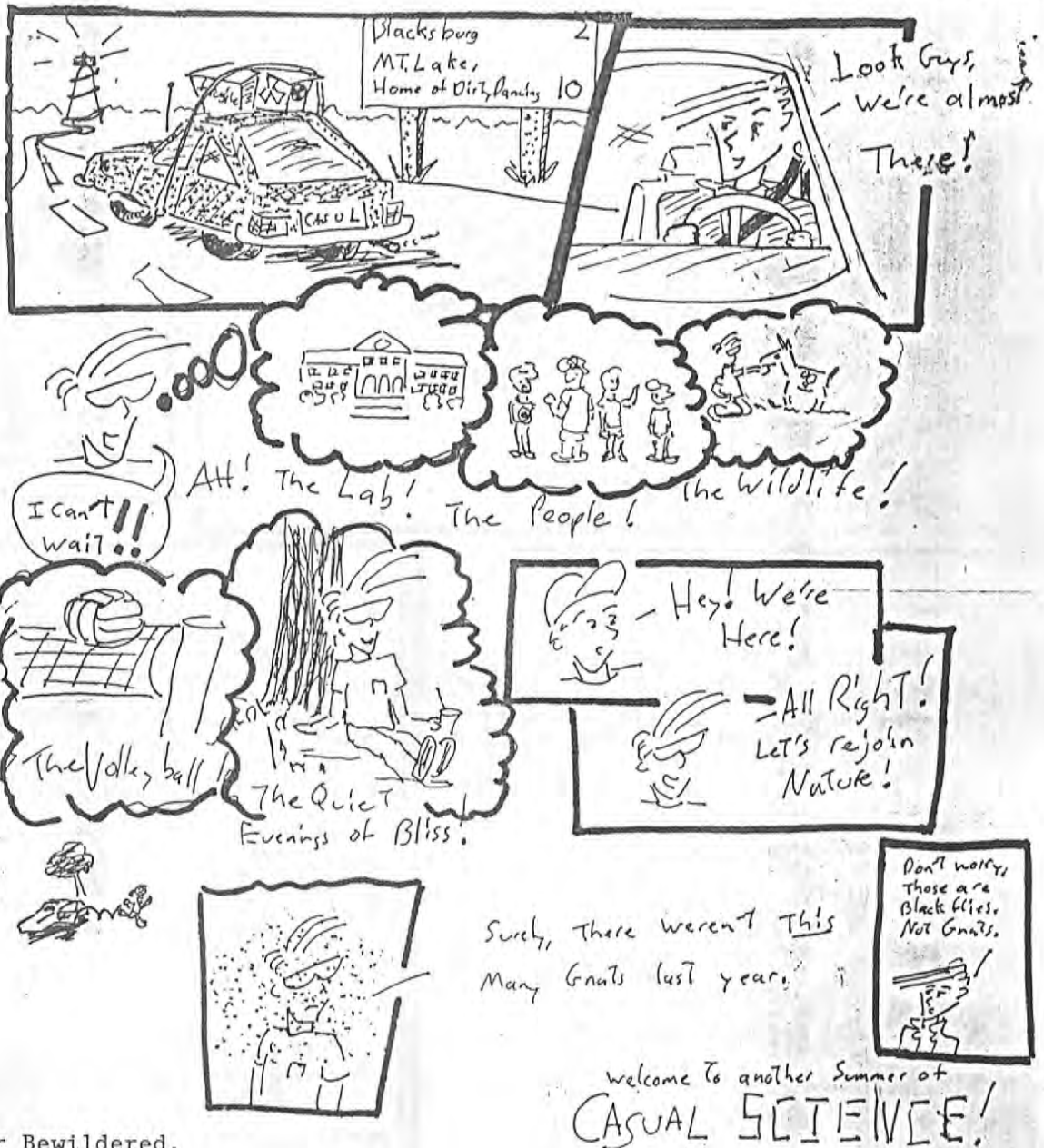


Dear Ann Landers,

What the heck is all this Casual Science Hub-bub about? Does it have a point or what? Why are my kids buying pocket-tees? I think that men in general are to blame for all of this. Please explain what this cartoon is all about!

Signed,

Bewildered at Baton Rouge



Dear Bewildered,

Unlike most trends which start on the West Coast, the current "casual-mania" appears to have started in the Mountains of Virginia. Casual Science is nothing but the old saying, "work hard, play really hard" all wrapped up in a brand new pocket TEE. It spawned both the movie "Dirty Dancing" and the brilliant, hilarious, breath-taking, inventive, creative, well-drawn comic, "Casual Science" which depicts the day to day weirdness of living at a field station. So grab an Eppendorf and get ready to enjoy such characters as Jim, Charlie, Arlan, '01 Doc' (played by the incomparable Dave!) and the rest of the crew!

Hugs!!



Casual Scientist of the MONTH

☆
☆
☆
☆

☆
☆
☆
☆

Ol' Doc

All Casual Scientists Are Winners but only Ol' Doc was Casual Enough to go Canoeing while his Already Overworked field Assistant was left with an entire field of Beetle Larvae. Dave Makes it look so easy! We Salute you Ol' Doc.

Cinderella

My Ugly Step Sisters All got Grants! And I have to wipe up Frass!

Don't worry Cinderella I'm your ol' Fairy Godmother!

Biddy Bobbly Boo!

Blink!

Bont!

wow. A packet T, APCR, And A Lachy Field Assistant!

oops there goes the Tris.

On July 4th we salute our Nation's ^{casual} Folk Heroes:
 Danny Appleseed



Jimzan



Happy Boss Appreciation Day.

from Casual Science

GRIND WITH THE WIND



"Frankly,
My Dear,
I Don't
Give A
Band."

Casual Sci-A-Nar-Uh Jim

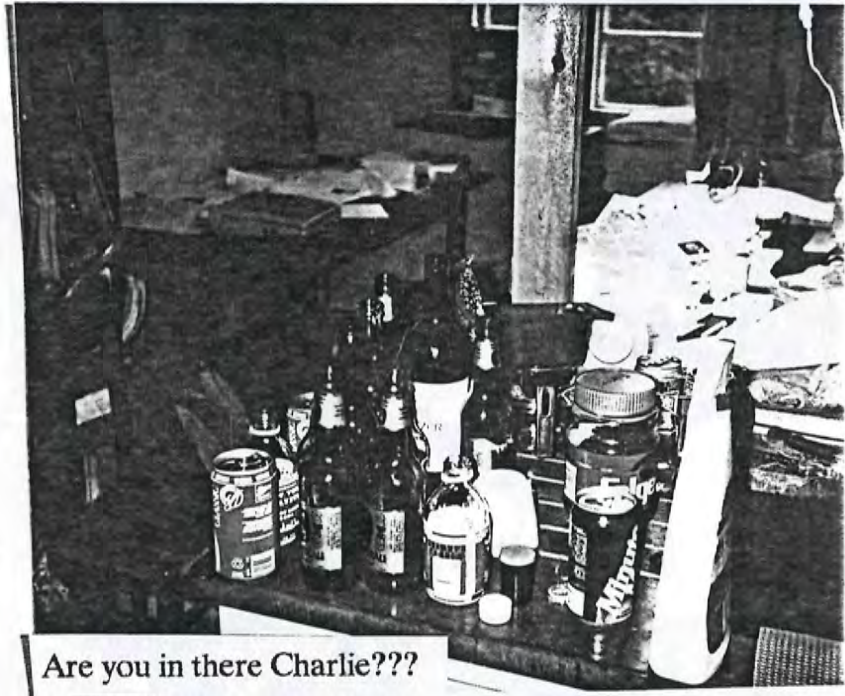
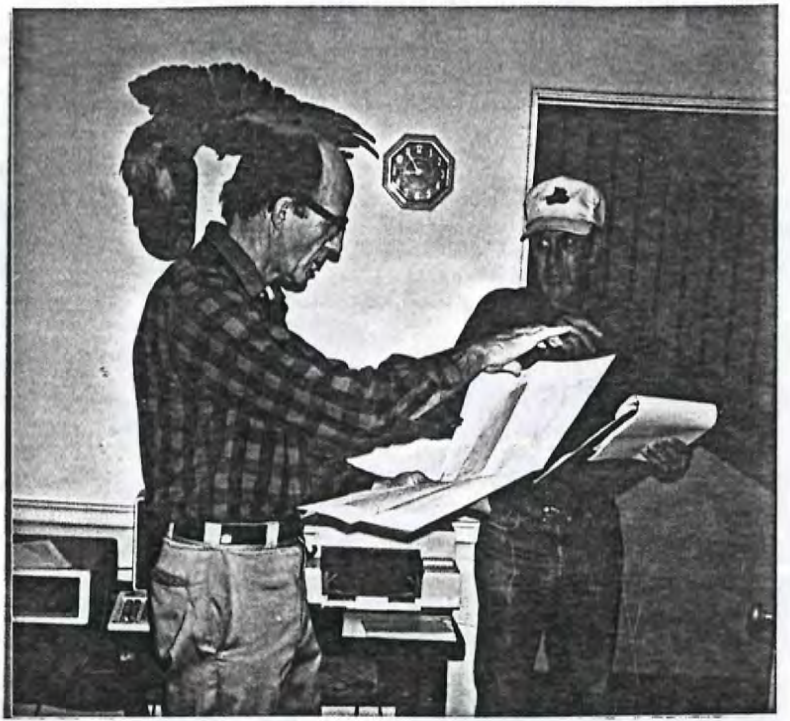
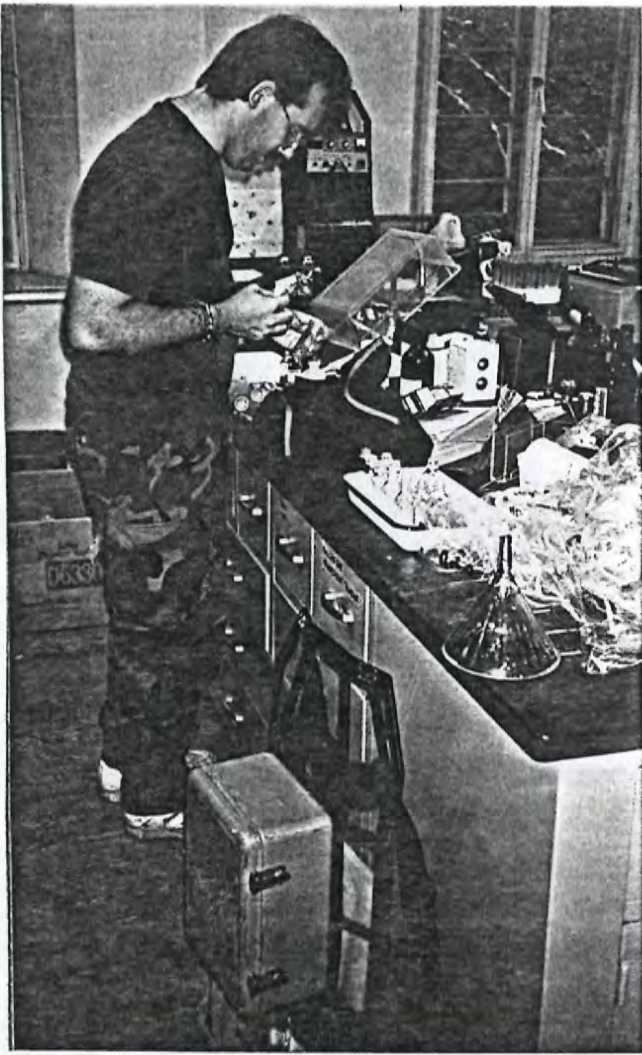


GEL'S vs ANGELS

Does it
make coffee?



Casual PCR



Are you in there Charlie???





THE FUN GUYS !





The three participants in Bot 577 (Experimental Biology of the Fungi) will never again feel the same about rolling a rotten log in the woods! Who would have dreamed that, resupinate in their humble abodes, militant mycelia were marshalling forces, developing sophisticated foraging strategies, mating and much much more? We soon found that there is more to a mushroom than meets the eye (or perhaps the nose).

The atmosphere created by the motley crew who composed this class, who modestly referred to themselves as "PMS" (Phyllis, Mary, and Sallie) will not soon be forgotten. The aromas which emanated from the drying cabinet, the tasty gourmet contributions at mealtime, not to mention the "stout" brew that seems to cure what "ales" you, were all a result of the fun we had with fungi and with the FUN-GI who taught our class!

Already, though, as our thoughts turn toward our other lives away from Mountain Lake, we know we will soon feel a primordial tug to return. So, with deepest apologies to John Masfield:

We must go down to the seeps again,
to the sphagnum beds and the bogs,
With a backpack and a Cut-Rite roll,
and a knife to scalp the logs.

And all we ask is a virgin stand
of hemlock, spruce, and pine
And the brown rot, and the white rot,
and the leaves decaying,
And the cap's shine and the stipe's slime
and the smell dismaying.

We must go back to the Lake again,
to our Mountain Home in Laing,
To the squeaky springs and the birds that sing
and the dinner bell that rang.

And all we ask is Buckwheat's bark and the bats at dark
and the mice all lurking,
And the warm fires and a hall called Byers
and the pipes all working.

Phyllis Wells
"PMS" Mary Lou McReynolds
Sallie Neal



EVOLUTIONARY GENETICS

Bruce's Dilemma:

Bruce knew he was in trouble before he even showed up for the first day of class. How do you teach Evolutionary Genetics to: Betsy, the nurse, who knows no genetics; Maria, the med student, who mastered the math, but knows no genetics; Mary, the budding biologist, who knows it all; and Maako the biology teacher, who knows everything but can't speak or understand English.

The Class's Dilemma:

The class realized they were in trouble after the first lecture, when they discovered they had 5 weeks to live with Bruce's idiosyncrasies: an obsession to start class on time, which was hindered by Mary's small bladder capacity and Maako's Junco feeding. To make up for starting class at 9:02, instead of 9:00, Bruce talked fast and furious and also cut the class's break time from 30 minutes down to 10 minutes. The class also realized that they were dealing with a professor who leads such a "boring life" that he became ecstatic when a Riston was found in his moth trap.

Unanswered Research Questions:

1. Where have all the Rosy Maple Moths gone?
2. Why does Grub Co. insist on sending only dead fly larvae?
3. Why did Larry let the Junco's go?
4. Why didn't Betsy count the white eyed female Drosophila?
5. Why do white eyed females prefer wild males?

Lingering Questions of the Class:

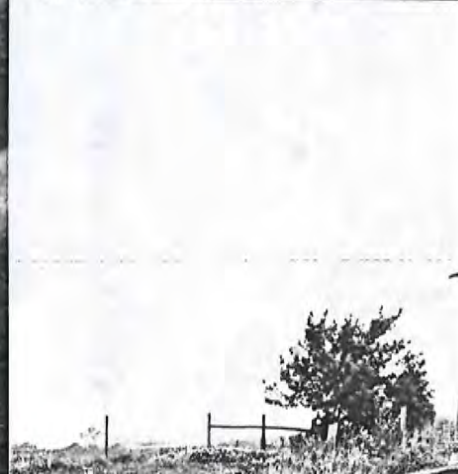
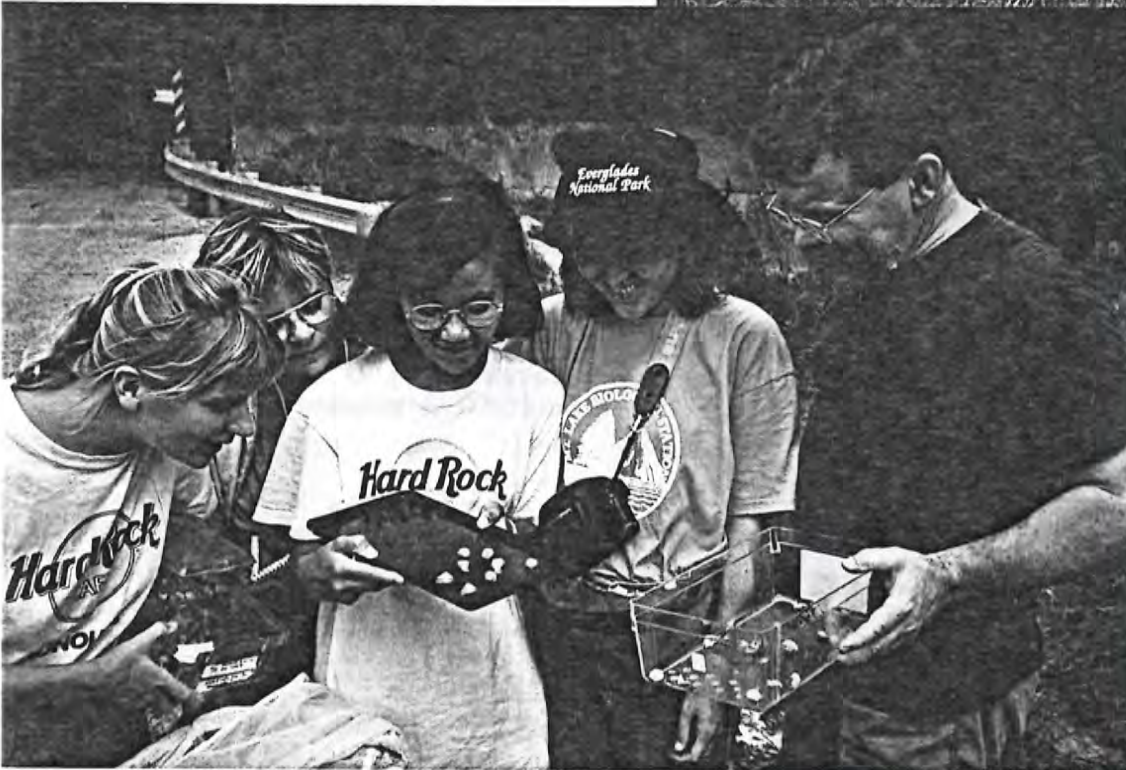
1. What is Dobzhansky's first name?
2. Why did Bruce choose to use a book that:
 - a. He helped write
 - b. Used 3 of his pictures
 - c. Has multiple editorial mistakes
3. At a field station, why were our only "field trips" to the moth traps?

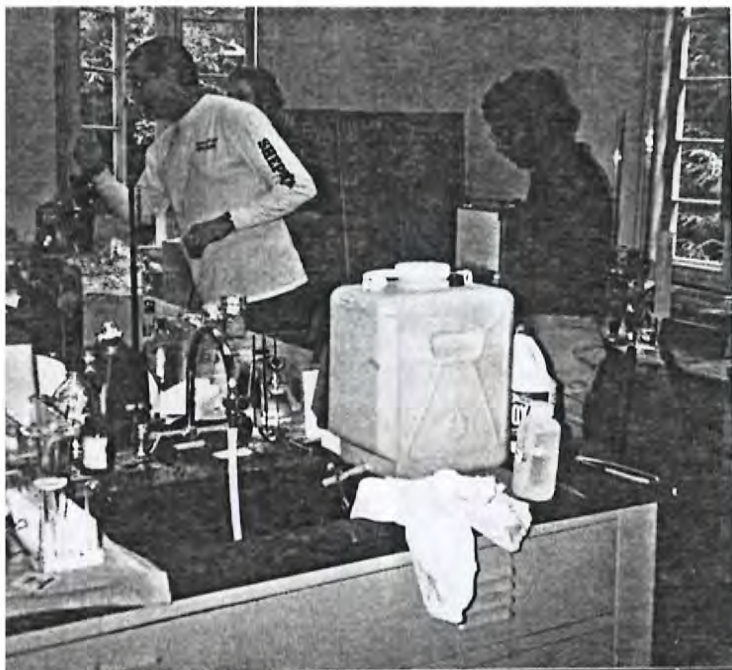
P.S. Dear Bruce,

We all got together to write this at 1:15 on Sunday afternoon and as usual, Mary fell asleep, so blame Betsy, Maria and Maako.

Love,
The Rosy Maple Gang

EVOL. GENETICS GOES A-SNAILING!





"MIKE AND DAN'S DOG AND PONY SHOW"

The second Workshop in Molecular Techniques for Field Biology was successfully held at UVa's Mt. Lake Biological Station. The seven participants had diverse interests in systematics, pop. genetics, ecology and evolution. Specimens examined included slime molds, Silene, Pinus, smut, mushrooms, ferns, Psilotum, Isoetes, human DNA, lillies, lipomas and Acourtia.

The techniques we learned are powerful tools that can be used in most areas of biology. This course was directed towards those interested in supplementing their present field biology procedures with recent molecular techniques. We practiced many of a large array of lab procedures required to PCR and sequence fragments of DNA.

We would like to thank Mike and Dan for their patience and excellent instruction. Because of their competent direction, we will be able to return to our home institutions and continue our projects. YOU'RE GREAT GUYS!!

Also, a special thanks from all of us to all of you who made our stay so pleasant (esp. Dr. Murray, Wayne, Mary Ann and Tom Angleberger, Rytas, Dave and the kitchen staff.



MOLECULAR TECHNIQUES IN FIELD BIOLOGY

Our Mountain Lake Echoes

"I don't see the (DNA) pellet, where's the pellet?"
"Kickball anyone?"
"Did you get PCR Product?"
"Oh no, dimer primers!"
"Do you see bands?"
"Pouring no-leak acrylamide gels takes practice."
"No kidding!"
"If you don't see it, it doesn't mean it's not there."
"We need more gloves again."
"Where's the 1 ml graduated cylinder?" HA HA HA
"Working with DNA take alot of faith."
"Volleyball anyone?"
"Get outta here."
"DNA is oozing out of the tubes!"
"Hey look, I glow in the dark!"
"PCR tonight?"
"I need 19 slots!"
First day of class: "We work around our stomachs and volleyball"
"We need more yellow tips again."
"Don't worry. You've got DNA--LOADS of it!"
"Where?"
"Y'all..."
"Are they competent?"
"How many lanes can I have on your gel?"
"There are dishes to wash in the sink if anyone is interested."
"Mike, Dan -HELP!!!!!"
"Success, it feels good!"



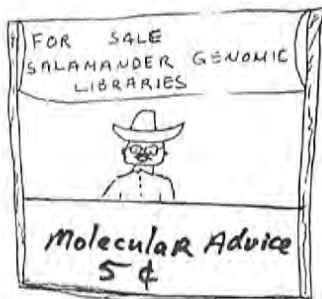
NEWS "The Grapevine"

An unnamed workshop neighbor was overheard saying, "If I were running the molecular section, all non-toxic products would be used. We would be utilizing lots of high-tech products like Crayola (childrens' non-toxic) pastels and natural vegetable madras dyes in our work. No phenol-chloroform or ³²P for us!"

Nicholas J. has been invited back to Mt. Lake next year to present an advanced seminar for 2 yr. olds, entitled Raisin Flicking 970. Classes will meet 3 times a day in the dining hall.

The "Girls Only Club: (a/k/a "Kids Only Club" on occasion) will resume meetings next summer at the same time, same place (laundry room). Children of Mol. Techniques Workshop include Casey, Sarah, Susan and on occasion Nicholas, Brandon, Chad, Peter, Keenon, Srilakshmi, & Devaki.

Kickball (main spectator, Nana) and volleyball games will presume at same time, same place.

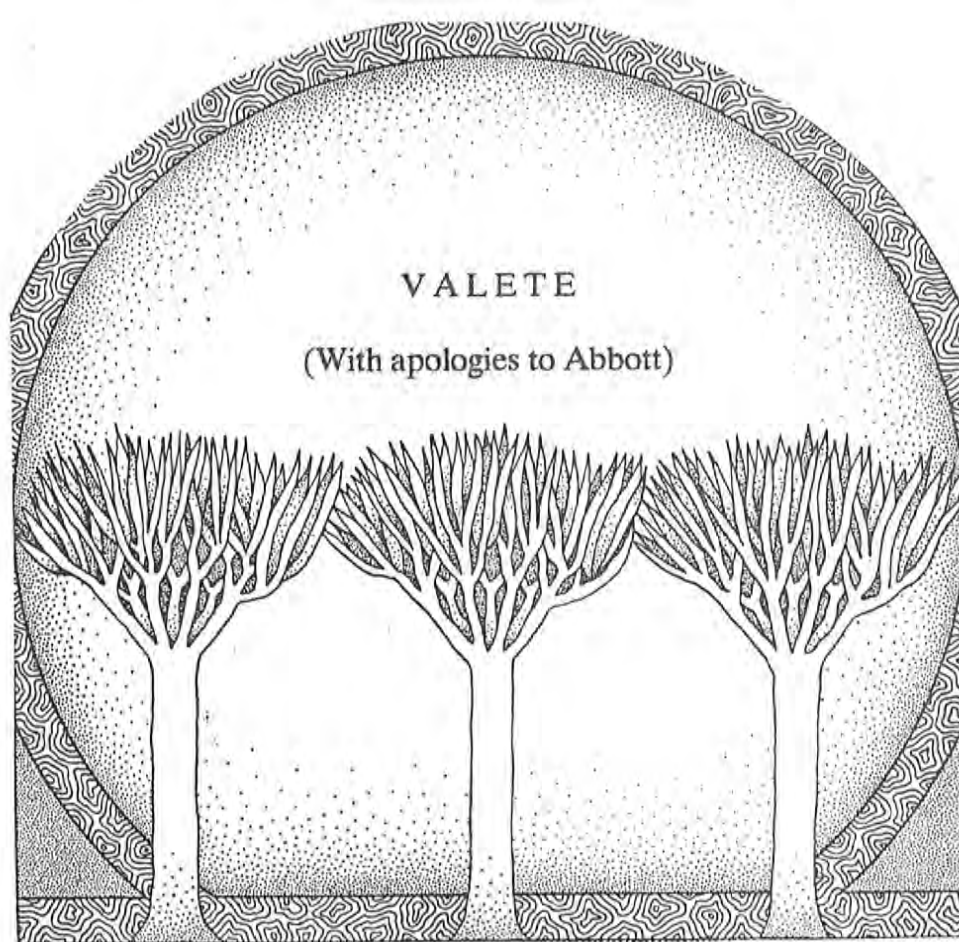


Favorite Memories

beautiful scenery, hikes, canoeing, childrens' laughter, good bittles, Bruce Grant's bagpipe playing, stimulating mealtime conversation, pavilion parties by the fireside, chipmunks, the pond, croaking bullfrogs and peepers, the natural history talks, the camaraderie...

-FOR SALE-

Used ethidium bromide and used phenol-chloroform. Used only once, good cond., low mileage.



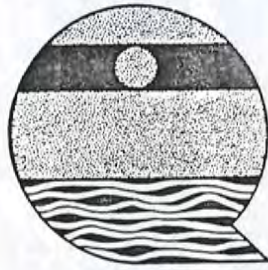
1. In the Allegheny Mountains of Virginia,
 On the trail of the White Pine sign,
 Walk down road
 With a heavy load,
 Cars drive past
 Dust up your
 Oh Wayne! Am I slaving in vain
 Doing research for youhoo?
 In the Allegheny Mts. etc....

2. In the Allegheny Mountains of Virginia,
 On the trail of the White Pine sign,
 Drain gurgles round
 Hardly makes a sound
 But the Mountain Lake Hotel
 Harbours loud rabbel
 Oh Henury! Will I end up in penury!
 Flying from Britain for youhoo?
 In the Allegheny Mts. etc....

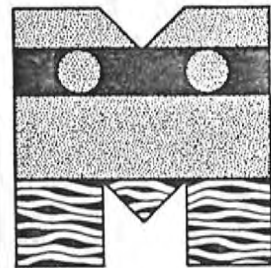
3. In the Allegheny Mountains of Virginia,
 On the trail of the white pine sign,
 Fungi rot treeze
 Cause beech bark disease
 Understand their role
 Hugo breaks tree bole
 Oh Travi(s)! Am I feeling savvy?
 Doing research like youhoo?
 In the Allegheny Mts. etc....

4. In the Allegheny Mountains of Virginia,
 On the trail of the White Pine sign,
 Trees fall down
 Birch clusters round,
 Gaps all gone
 Statistics all wrong
 Oh Jim! Is it just a whim?
 Should I relax like youhoo?
 In the Allegheny Mts. etc....

5. In the Allegheny Mountains of Virginia,
 On the trail of the White Pine sign,
 Plants move aroun'
 Chessmen slowed down
 Understand their size
 Win a Nobel Prize
 To all! Did I have a ball?
 Living it up with youhoo!
 In the Allegheny Mts. etc....

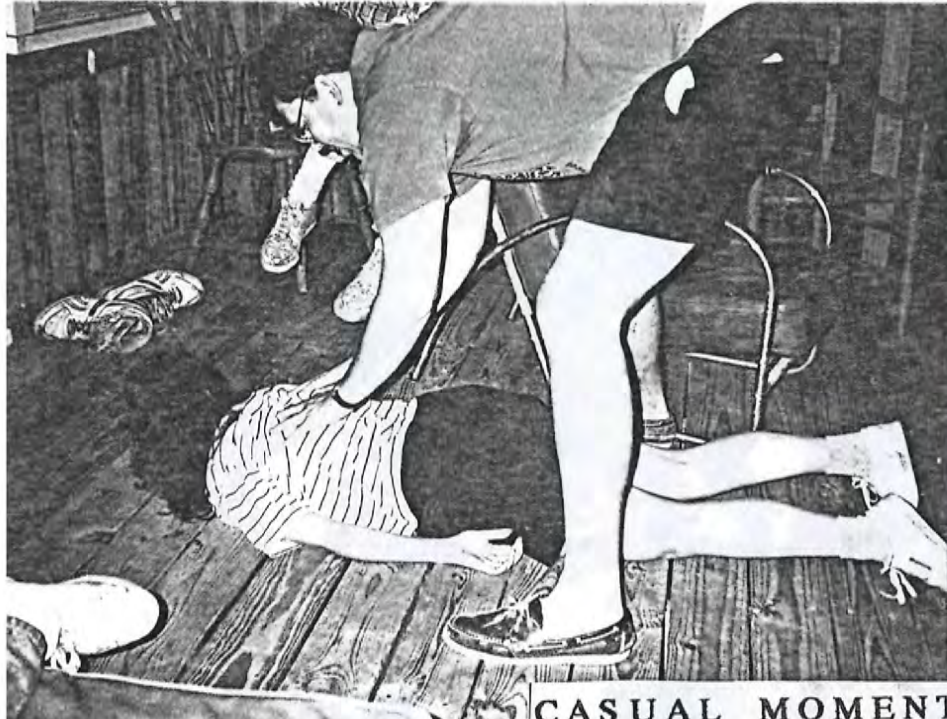


QUANTITATIVE



METHODS





CASUAL MOMENTS

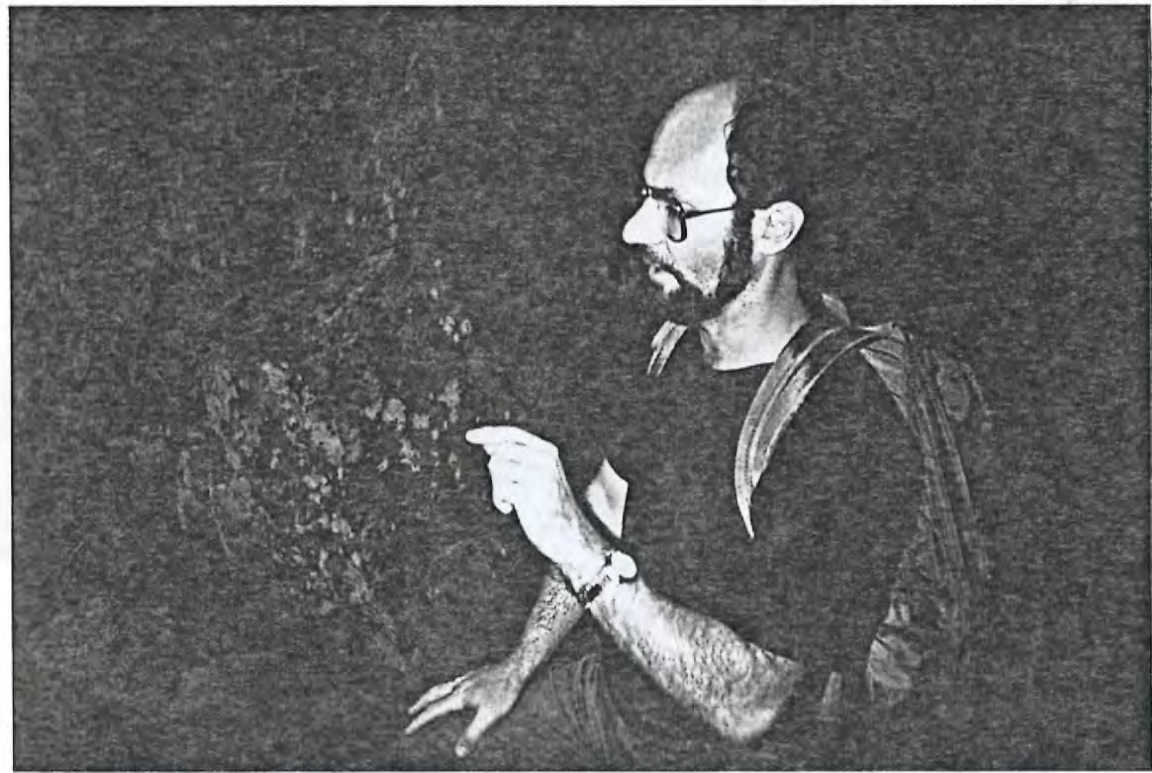


Saccharomyces...
err - no. Its Chlamy...
uh, gosh... its Polynopes
Simplex... err no. It
oh geez, little
green blotches
on rock

Indeed, before the
'white man' arrived in the
New World, boulders never
experienced this disease!

Notice how the lichen
just above my finger has a
profile not unlike my own!!

This boulder
was here even
before Dave
was coming to
mountain hike!



How to spend "casual time"



kayak lessons



tie dyeing

PROGRESSIVE PARTY . . .

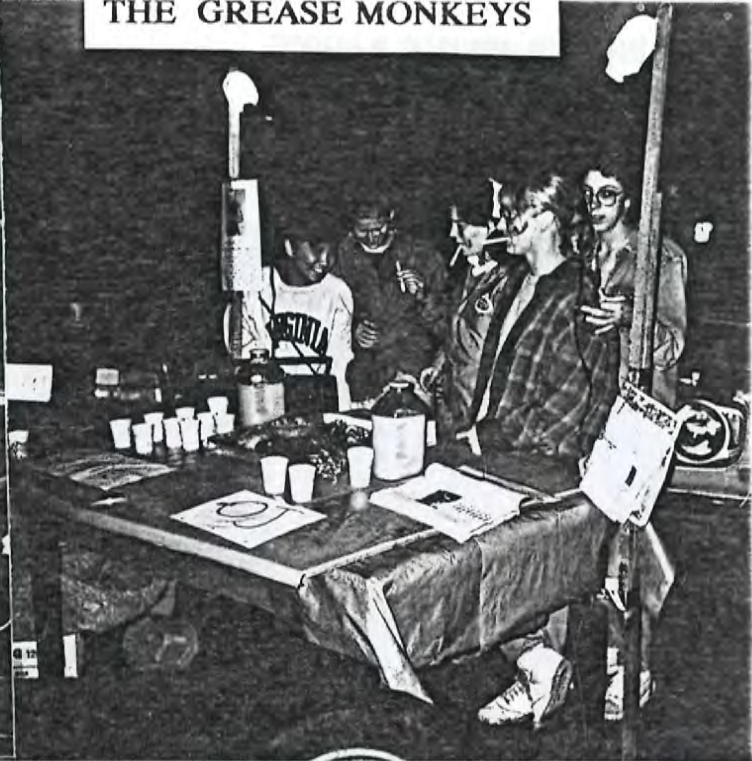
WIZARD OF OZ



HE PAGANING

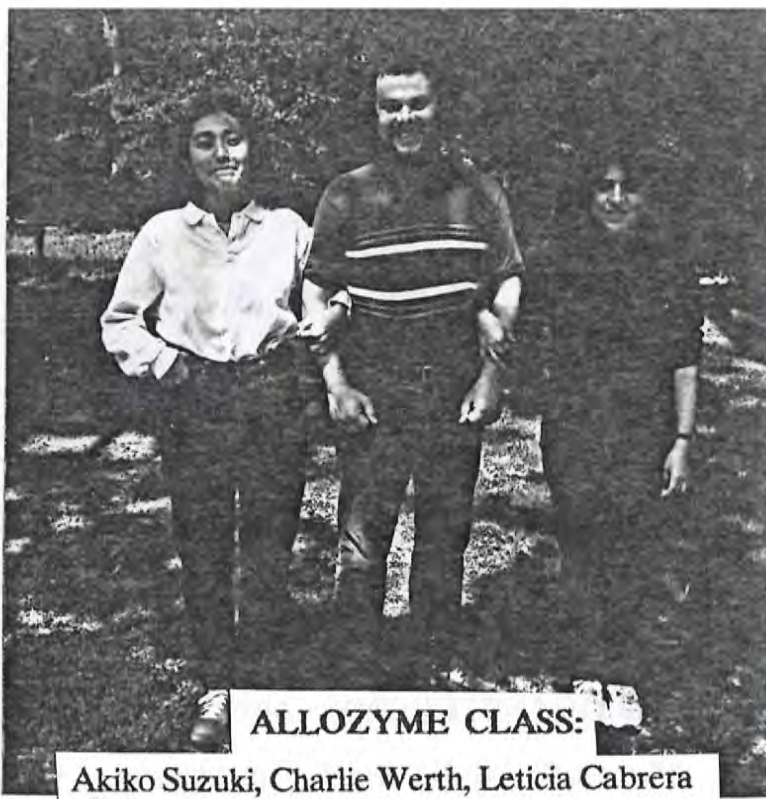


THE GREASE MONKEYS



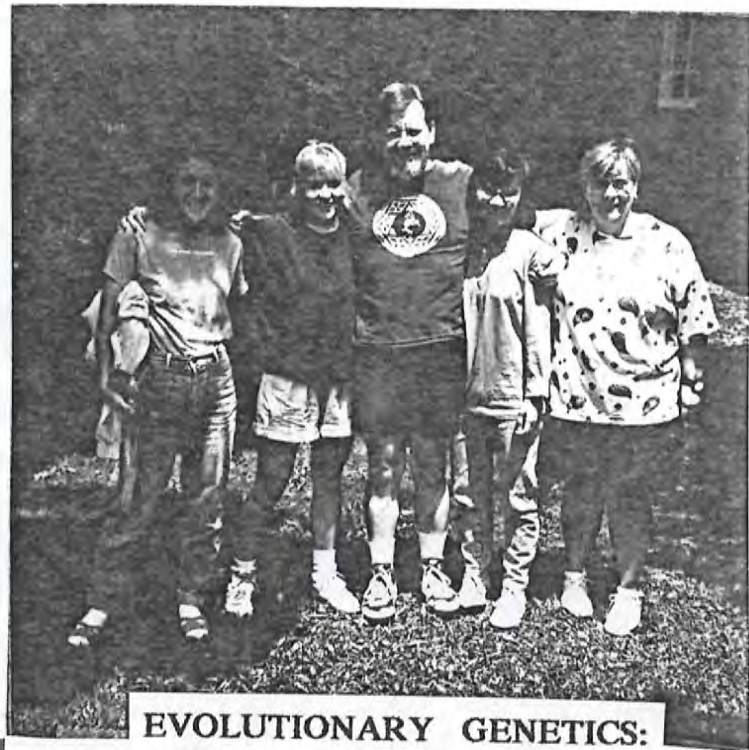
CHRISTMAS IN AUGUST





ALLOZYME CLASS:

Akiko Suzuki, Charlie Werth, Leticia Cabrera



EVOLUTIONARY GENETICS:

Naoko Asami, Mary Crowe, Bruce Grant, Maria Obleada, Betsy Ashbrook



BIOLOGY OF FUNGI:

Rytas Vilgalys, Phyllis Wells, Sallie Noel,
Mary Lou McReynolds



MOLECULAR TECHNIQUES:

Akiko Suzuki, Leticia Cabrera, Mike Timko, Jenny Morlang, Raju Govindaraju, Andy Jarosz, John Landolt, Dan Burke

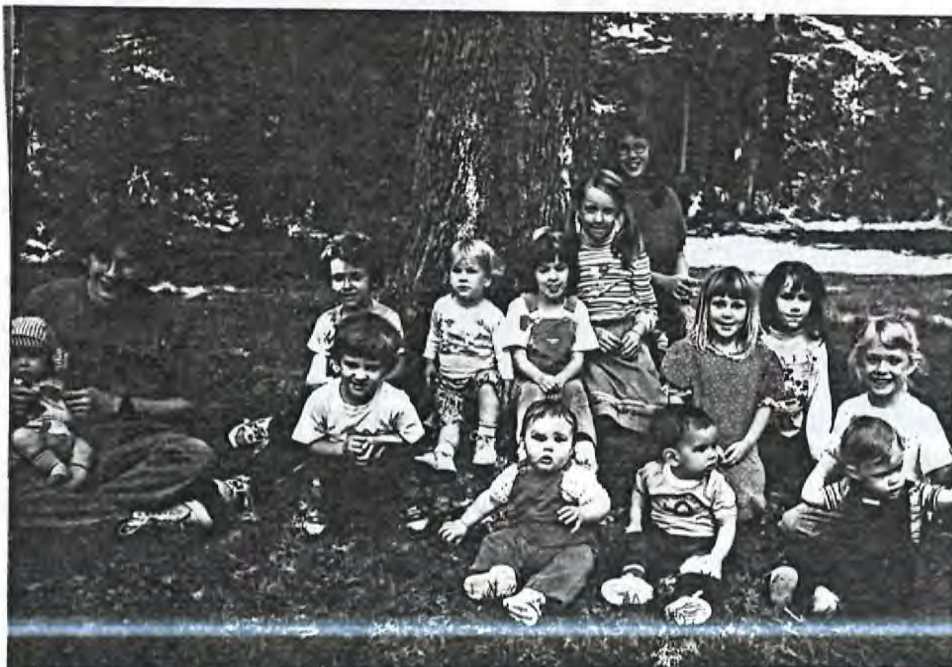


QUANTITATIVE METHODS:

Michael Travis & Boris, Joe Travis, Henry Wilbur, Lindsay Wilbur, Sean Skaggs, Randi Hansen, Laurel Sherwood, Peggy Schultz

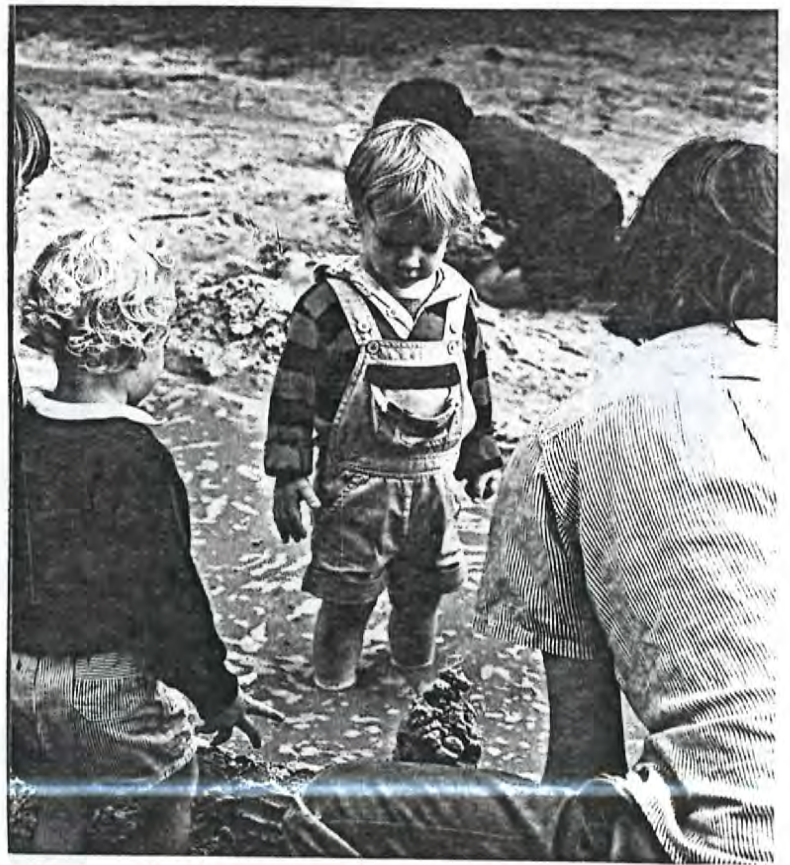


SILENE CREW: Allison Smith, Arlan Maltby, Julie Delzer, Bernie Roche



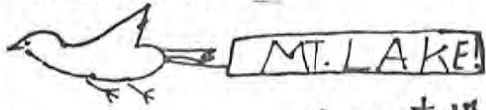
THE KIDS: (Clockwise) Tom, Rim, Michael, Helen T., Helen W., Casey, Lindsay, Sarah, Susan, Nicholas, Matt, Emlyn, Gabriel, & Houston





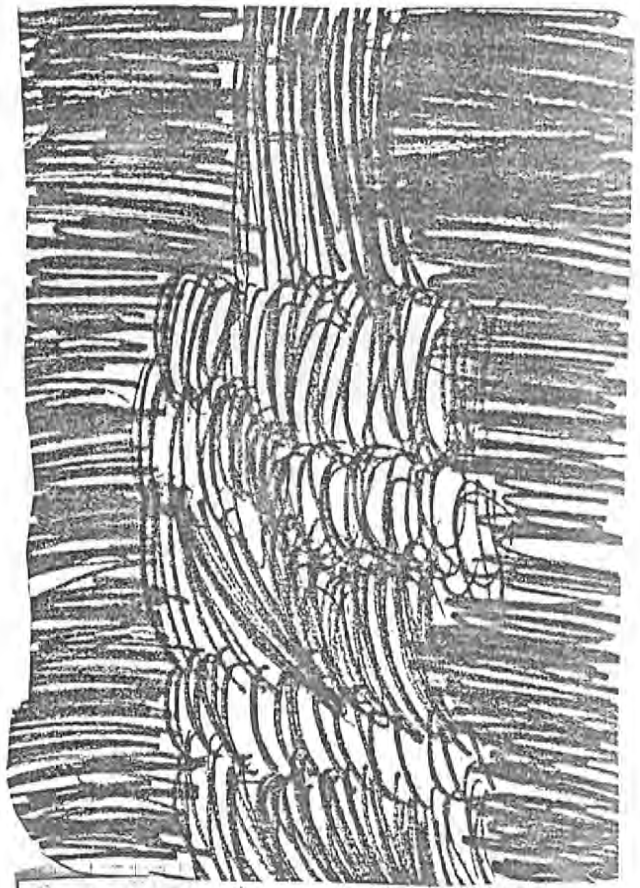
On Sunday, August 12, my dad, my sister and I hiked to the Cascades! I swam alot and the water was cold, but it was fun.

I've been tie dying playing. kickball, baseball and volleyball. Becky said she's taking all of the kids canoeing on the new river! I can't wait!!!



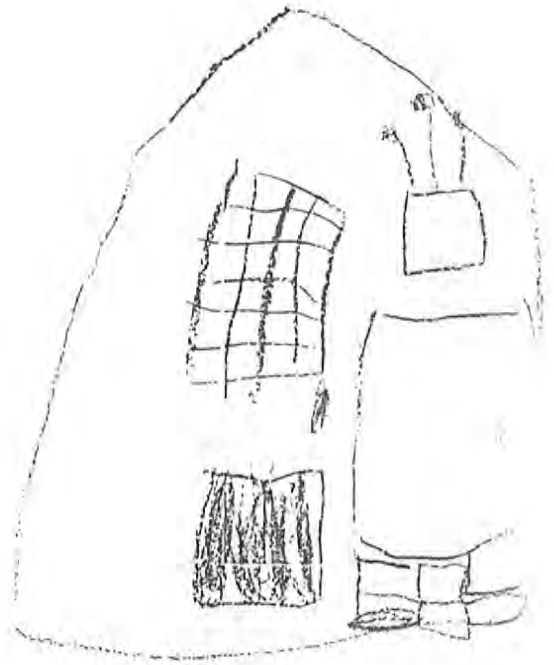
Casey Burke

August 14, 1990



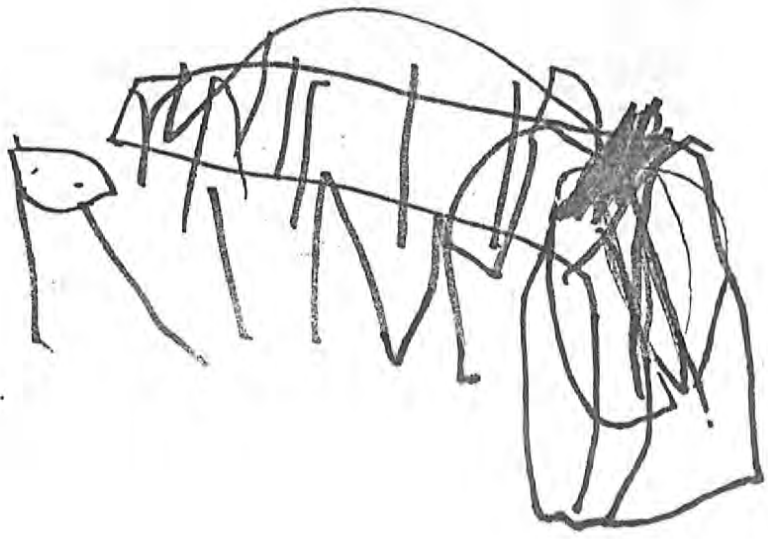
cascades
Helen

ECHOES: Helen & Michael

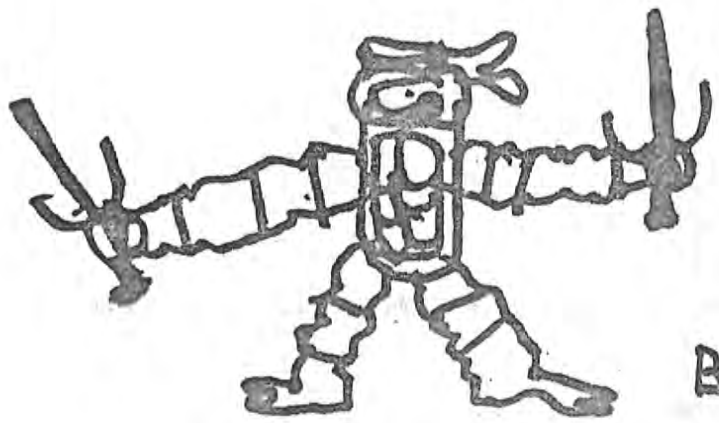


SUSAN

LINDA



Sarah



Brandon



MT. LAKE DIRECTORY- SUMMER 1990

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			EARLEY, Susan	1009 Sam Lions Trail Martinsville, VA 24112	Nature Photography

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SCHULTZ, Peggy	2004A Englewood Ave Durham, NC 27706	Quant. Methods	TIMKO, Mike	Dept. of Biology Univ. of Va. Charlottesville, VA 22901	WORKSHOP mt DNA
SHELFON, Phil	Nat. Sci Dept Clinch Valley College Wise, VA 24293	NATURAL HISTORY	TRAVIS, Joe Ann Helen (5) Michael (2)	Dept. of Biol. Sci. Florida State University Tallahassee, FL 32306	QUANT. METHODS
SHERWOOD, Laurel	Zoology Dept Duke Univ. Durham, NC 27706	Quant. Methods	VILGALYS, Rytas Liz Rim (5 1/2) Gabriel (3) Matas (10 mos)	Dept of Botany Duke University Durham, NC 27706	FUNGI
SIEX, Kirstin	111 White Oak Circle Eglin AFB, FL 32542	Wolff assist			
SKACOGS, Sean	124-8 Governor Berkeley Rd. Williamsburg, VA 23185	Quant. Methods	WELLS, Phyllis	P.O. Box 687 Wise, VA 24293	Nat. History Fungi
SMITH, Alison	1541 Kentucky St. Lawrence, KS 66044	Alexander assist	WERTH, Charles	Dept of Biol Sci Texas Tech Univ Lubbock, TX 79409	Allozyme Research
SNIDER, Vicki	P.O. Box 399 Pembroke, VA 24136	Cook	WILBUR, Henry Becky Helen (7) Lindsey (4)	Dept. of Zoology Duke University Durham, NC 27706	QUANT. METHODS
STEPHENSON, Steve	Div. of Sci. & Math. Fairmont State College Fairmont, WV 26554	Slime mold Research			
STEVENS, Alan	624 Mt. Lake Ave. Pearisburg, VA 24134	Head Cook	WILLIAMS, Mary Ann	Rt. 2, Box 491 Newport, VA 24128	Cook
SUZUKI, Akiko	1-51-1 Ohi Shinagawa-ku Tokyo 140, Japan	Allozyme & mt DNA	WOLFF, Jerry	Savannah River Ecol. Lab Drawer E Aiken, SC 29801	Mammal Research
THORNELT, Heather	1509 Brookhaven Dr. McLean, VA 22101	Entomology	ZIEGENFUS, Charles "Zig"	Math & Comp Sci Dept James Madison Univ Harrisonburg, VA 22801	Junco Research
THRALL, Peter	Dept of Botany Duke Univ. Durham, NC 27606	Plant Research			
TILLEY, Steve	Dept of Biol Sci Smith College Northampton, MA 01063	Salamander Research			

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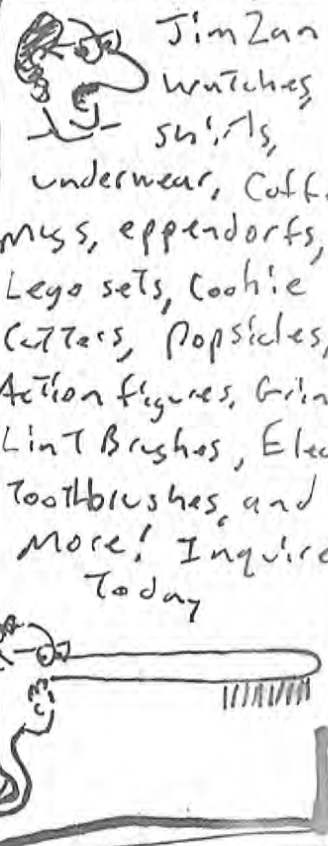


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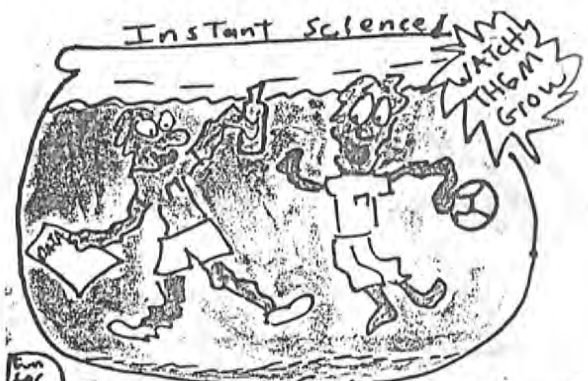

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