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, putting, 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,
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. Agh!) 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 pukey 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.

A word from the wise: Remember how to tell the difference between a vole and a mouse.
NATURAL HISTORY IN THE FIELD
Come on Dr. Byers,
You mean to tell me...
Out of the way animal.
Has anyone seen the late Peter Fashing?
Heather, of all the excuses for missing a lab test...
Christy, didn't you know there was no swimming allowed in Sinking Creek?
and Martha, couldn't you have done better than that St. Bernard in Pembroke?
Rita, where did you get the idea that a Berlese Flannel was a compulsory bathroom fixture?
Why are Heather, Martha, Rita, Christy, and Dr. Byers identifying insects now? They're working on Peter's collection, of course.
Who's the man in the Hawaiian shirt and hiking boots that collects bugs off the lab window at midnight? I don't know but he keeps saying "SIGH!"

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-rayons 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 Pooh

They found the librarian foiled. The Eyepod impaled in his chest and delivered its fatal merchandise - Gel Starch.

The tiny community was shocked. 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?

Meanwhile...

---

Match wits against the hardboiled detective, Officer Roche.

As we explore the weird happenings in Casual peaks...

The lights are out! Allowing the killer to hide his tracks.

The lightning flash reveals a figure running from the lab... carrying a box of some kind.
It was a busy day in the lab.

Casual Science.

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 Rurd, Jerry Wolff, Fred Holtclaw
JUNCO FLOCK
Sammrah Raouf, Ellen Ketterson, Michelle & Houston Chandler, Ray Chandler
Sanam Radji, 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 Pink, Libby Marschall, Bernie Roche
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, wall-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, 'Ol 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.
On July 4th we salute our Nation's Folk Heroes:

**Danny Appleseed**

Take your *SEED* SEEDS!

**John Maltby**

I'm a steel *WIN* win man.

**Val Bunyan**

With Babe, the Blue Jumbo

**OL Doc**

I remember when we USED to have good FOLKHEROES.

*Soon To Be a Better Folk Hero*

**Jimzan**

Isn't that A Pteridum Aquilinum?

--

Happy Boss Appreciation Day.

Dave, Thanks for introducing Me to The Glamorous World of Frass.

*From: Casual Science*
"Grind with the wind"

"Frankly, my dear, I don't give a band."

Gel's Angels

Does it make coffee?

Casual PCR
Are you in there Charlie???
The Night Belongs to Mycolobe

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 Masefield:

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 wood student, who mastered the math, but knows no genetics; Mary, the budding biologist, who knows it all; and Naoko, 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 Naoko'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 Biston 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 Naoko.

Love,
The Rosy Maple Gang
"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 takes lots 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 (children's non-toxic) pastels and natural vegetable madras dyes in our work. No phenol-chloroform or EtOH 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, Keenan, Srilakshmi, & Devaki.

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

Favorite Memories

beautiful scenery, hikes, canoeing, children's laughter, good bittles, Bruce Grant's bagpipe playing, stimulating mealtime conversations, 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.
VALETE
(With apologies to Abbott)

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 rabbet
   Oh Henry! 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....

- Tim King
Indeed, before the white man arrived in the new world, the Bora warren never experienced contact. Indeed, before the white man arrived, this area was a land of mystery. Just above my finger was a boulder, this boulder was confirming to me. It's not unlike my own.
How to spend "casual time"

kayak lessons

tie dyeing
PROGRESSIVE PARTY

WIZARD OF OZ
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 a lot 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

ECHOS: Helen & Michael

Helen

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Alloz. & mt DNA
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<td>Martin, Ed</td>
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I can't get no -union no deoxyribonucleic acid...

Watson and Mick

Val and Ellen had barely left the building when...

Centrifuge daiquiris

Casual Goodbyes

Every year, it's the same thing...

What? He's gone? Why didn't anybody tell me? I didn't have a chance to say goodbye!