

Arthotestlior +Lori

## FOR

## MISS LUCILE WALTON

November 21, 1904--June 23, 1984



MOUNTAIN LAKE BIOLOGICAL STATION

UNIVERSITY OF VIRGINIA<br>CHARLOTTESVILLE, VA. 22901<br>(804) 924-3151

October 1, 1984

Dear Fellow Mountain Lakers:
This year has been a memorable one for me in that I have seen Mountain Lake from a different perspective. After spending four years as a researcher and faculty member at the Station, Drs. Riopel and Murray handed me the reins. The summer was a challenging one, but with the support of my research assistants, office staff and caretaker, faculty, post-docs, and students, the Station managed to survive another 10 -week session.

My able and devoted assistants, Kathy and Andrea, kept the mammal project going while Ramone and Susan burned the midnight oil in the electrophoresis lab. Andrea is now down on Barro Colorado Island trapping bats with Charles Handley from the Smithsonian, and Kathy is continuing her "mouse project" as a graduate student at Virginia Tech.

The real backbone of the Station, which too often goes unnoticed, consists of a conscientious and understanding office staff who helps me fight my battles with paper work and the University bureaucracy; an experienced and competent caretaker who is always on hand to fix a leaky faucet or clear a plugged drain; and a devoted and friendly kitchen crew who keeps our morale high and stomachs full. Wayne and Mary Ann, I thank you for your support and look forward to working with you again next summer. My thanks also to DeWayne and Panzie and the rest of the kitchen crew for scheduling our lives by the bell. My appreciation to Marilyn Ladd who keeps me honest for 9 months a year at UVA and for joining us the last two weeks of the second session to help close the Station.

This summer I had to say goodbye to my good friend and teaching colleague, Dan Hornbach and his family, Pat and Sarah, who have left the balmy south for the more temperate climate of Minnesota. Steve and Akke have also left us and, after spending a few months traveling and visiting in Europe, will settle down to a new lifestyle in Blacksburg. Steve and I go back to the summer of 1980 when he was a student in my Wildife Ecology class. During midsummer he took over as caretaker and has virtually kept the Station running for the last four years. While I say Bon Voyage and best wishes to the Hulburts, I also want to welcome Walt Nimmo and his family to Mountain Lake. They will take over the caretaker responsibilities at the Station.

The success of the summer program was due to a large part by the excellence of our faculty. Each professor, an expert in his/her field, made valuable contributions not only to the students in their classes, but to the seminars, discussion groups, and general attitude and philosophy of the Station. Our visiting post-docs contributed in many ways; they interacted with students, participated in seminars, provided insight to the research projects, and helped promote the professionalism and quality of work that has come to characterize our Station. The advances being made in evolutionary biology by our researchers are growing exponentially and I look forward
to an even bigger and better research program next year.
I congratulate Lynn Broaddus and Paul Cabe, who were co-winners of the Horton Naturalist Award. This is an admirable feat, especially considering the thoroughness of the exam and the toughness of the competition. Jack Conley, a third-time finalist, promises to return next year to challenge for first place.

My other memories of the summer include the excellent seminars presented by our good friend from England, Dr. Tim Clutton-Brock; our afternoon social hours on the lawn; Saturday evening clogging fests and bonfires, the infamous Salt Pond Mountain Olympic Games and, of course, the wonderful people that shared these experiences. I invite you all to come back and spend another summer with us on the Mountain.

For those of you who will not be returning next summer, I wish you the best of luck in your future endeavors. Please keep us in mind.

ml

## QUANTITATIVE METHODS

The 1984 Quantitative Methods Students of 1984 would like to thank our professor, Joe Travis, for an extremely informative class and, of course, a great time. We believe these limericks summarize some of our experiences and consider them a tribute to statistics. Thanks again!

Steve, Mike, Jerry, Ann, Melanie, Bernie, Lynn and Susanna

One day in our morning class meeting, Joe gave Bernie and Lynn a good beating. And they cried through their tears, 'We'11 be sorry for years, Didn't know we were flagrantly cheating!"

We all know the story 'bout Jerry,
Who thought he would map some blueberries.
He admits in such pain
That to do that again
He would gladly commit hari-kari!
One day when out looking for rust,
Our friend Ann vanished into the dust. We all know the culprit
'Twas Jack-in-the-pulpit
Those rare events you can't trust.
Mel is still in a state of confusion, She thinks aphids are all an illusion. One time they were clumped And the next they had jumped She can't figure out that distribution.

Then there was funny man Steve, Who on minitab newts did retrieve. By mistake he created Nine hundred, ill-fated
This feat that he couldn't believe.
To tell you about Mike McManus,


Newt meauring he just couldn't stannus.
"What's the length of this creature?" Then yelled back our teacher,
"It's the snout to the annus, McManus!"
You might think this is rather silly,
But to think of it gives us the willies.
What happened to Joe?
We11, we all think we know
He got eaten by newts down at Gilley's.
And now we must give our confession,
We finally know these regressions.
All the t's, $z^{\prime}$ s and G's
Now seem like a breeze,
So, good luck with the next summer session!

## 0 R N I THOLOGY

The Ornithology class greeted the new birding season with many a whistle, chirp and a squawk as they plummetted and screeched thru the countryside in search of the avian fauna of files County. At the wheel were Prof. Val Nolan jr. and sidekick Prof. Ellen Ketterson (of recent emeriety). In close pursuit, at an imprintable ase were the youns:

Bryan 'the vireo Meisenheimer
Lee '" rreat bird-in-the-sky'Aldrich
Don 'the Hawk's eve' Fairman Nancy 'swift as a Gull' Butowski Gree 'the red-breasted ' Turner Jim 'of many tongue. Pease
When back at the nest, the youns were treated to such unusual food items as migratory behavior, annual cycles, communication, and mating systems. Naturally developine a palate for such items took some time but all younc were ready for fledfing at the end of five weeks. In fact some had gained enough migratory fat already to make the long migration to Canada.

While the youns spent most of their time in the nest actively researching the station fauna, memorizing slides, and questioning the biolocical concepts and processes that are exemplified by birds; the adults foraged in nearby fielns and woods gleenins datum to present to future senerations. When the youns were ready to leave the nest for the final time they met once more and exchanfer food items, this is uncommon in most species but not the species Mountainlakus ornithorensis.



A FROG HUNTER'S LAMENT


And the bull-frog in the pool, And the snap-per caught his paw,




RESEARCHERS \& ASSISTANTS
1st Row: Ramone Baccus \& Alecia, Helen Alexander, Harvey Alexander, Mary Alexander, Ross Walton, Licia Wolf, Akke Hulburt \& Michael
2nd Row:
Ellen Lawson, Dave McCauley, Hiro Asami, Ruth Anne Schedler, Louise Robbins, Ann Redmond, Jerry Wolff, Kathy Lundy


QUANTITATIVE METHODS CLASS ( 1 to $r$ ) lst row: Mr. Cushion-man, Mr . Joe 2nd row: Melanie Haskins, Lynn Broaddus, Bernie Roche, Mike McManus
3rd row: Susanna Miller, Ann Mayo, Steve "Gumby" McMann, Joe Travis,


PLANT ECOLOGY CLASS ( 1 to $r$ )
1st row: Todd Hermann, Susan Suby, Margaret Poulos, Garnett Mellen
2nd row: Carol Witherspoon, Lisa Harper,
Michel Cavigelli
$\cdots$
T

Nos


ORNITHOLOGY CLASS ( 1 to $r$ )
lst row: Ellen Ketterson, Val Nolan, Nancy Butowski, Bryan Misenheimer Jim Pease, Donnie Fairman
Greg Turner, Lee Aldrich



# SALT POND FOLLIES 

## Part 1

THE DERELICTIONS Inspirational Chorale (Joe Travis, Maestro; Elizabeth Lacey, Adrianne Massey, Ann Redmond, Louise Robbins)
PLANT ECOLOGY CLASS ..... Skit
Migration and Endemic Primate Populations on Salt Pond Mountain
MARY ALEXANDER \&
CHARLIE WERTH Tribute to Johnny Cash
STEVE HULBURT Slide Show Featuring "The Green Box"
CHARLIE WERTH "The Ballad of Noble STP"
"The Ge1-Jockey's Widow's Lament"
BERNA ROCHE \& THE MOTELS ..... Music
CLAUDE STEPHENS \& JIM DOOLEY ..... Music
STATISTICAL FOOLS .. Anyone's guess
Lynn Broaddus, Steve McMann, Mike McManus Bernie Roche, Walter Bowyer
Docu-drama
M.C.--Steve Hulburt


SNAIL RACE
Rules and Regulations

## Entrance Regulations

1. All snails must belong to one of the following species: Meson andrewsae, Triodopsis albolabris, T. dentifera
2. No snails over 5 lbs.
3. Two snails maximum per sponsor.
4. Must be registered by 6 PM Tues., July 3rd to allow time for determination of starting gate position.
5. Snail must have amateur racing status.
6. No drugs may be ingested by snail for 2 months prior to race. Any snail suspected of such will be subjected to a slime analysis.

## Racetrack design

1. Racetrack will be circular with starting gates on the perimeter.
2. The first snail to reach the lettuce-chalk comination salad in the center will be declared the winner.

## Rules of the Race

1. All snails must be clearly marked with a unique symbol on the shell.
2. Any snail leaving the race course will be disqualified.
3. Foot-to-shell combat between participants will not result in disqualification.
4. No artificial means of propulsion.

## Prize

1. To the snail--freedom
2. To the sponsor--TBA

Any questions about the race should be addressed to the organizing committee, (Plant Ecology 1984)



## IHEOLYMPIC GAMES

Revised Juns, 1984

## HISTORY OF THE ANCIENT OLYMPIC GAMES 776 EC - 393 AD PART I

WHILE THE EXACT ORIGIN IS UNKNOWN, THE ANCIENT OLYMPIC GAMES WERE HELD ON A SACRED MOUNTAIN AT OLYMPIA (BETTER KNOWN TODAY AS SALT POND) LOCATED NEAR THE WESTERN BORDER OF VIRGINIA, THE EARLIEST RECORDED COMPETITION WAS IN 776 B.C. DURING THE HOMERIC AGE, THESE FESTIVALS WERE SIMPLE SACRIFICES FOLLOWED BY GAMES AT THE TOMB OR BEFORE THE FUNERAL PYRE. GRADUALLY THEY GREW INTO RAUCOUS AND BOITEROUS EVENTS OBSERVED BY THE ENTIRE COMMUNITY. THEN THE IDEA DEVELOPED TO DIVIDE THE COMPETITION INTO TWO TEAMS THAT OF THE HERBALS AND THE ANIMALIA. THE SALT POND GAMES WERE ESTABLISHED NOT MERELY TO GIVE CONTESTANTS A CHANCE TO WIN MEDALS AND TO BREAK RECORDS, NOT TO ENTERTAIN THE PUBLIC, NOT TO PROVIDE FOR THE PARTICIPANTS A STEPPING STONE TO A CAREER IN PROFESSIONAL SPORT, NOR CERTAINLY TO DEMONSTRATE THE SUPERIORITY OF ONE KINGDOM OVER ANOTHER BUT TO CREATE FRIENDSHIP AND GOOD WILL, THUS LEADING TO A HAPPY TIME FOR ALL.



EVENT
FIRST
SECOND
THIRD

| SNAIL RACE | "STP" Time : $24: 00$ Ann Redmond (A) | "Martha" Time: 27:00 <br> Margaret Poulos (A) | "Escargot" Time 48:00 <br> Ellen Lawson ( $P$ ) |
| :---: | :---: | :---: | :---: |
| MENS ROAD RACE | Michel Cavigelli(P) | Steve McMann (P) | Walter Bowyer (A) |
| WOMENS " | Lynn Broaddus (P) | Akke Hulburt (A) | Lisa Harper (P) |
| OVER 30 " | Steve Hulburt (P) | Wayne Angleberger (A) | John Meany (P) |
| PING PONG | Jerry Wolff (P) | Ross Walton (P) | Braven Beaty (A) |
| CROQUET | Harvey Alexander (P) | Greg Turner (P) | Melanie Haskins (P) |
| LAWN BOWLING | Lisa Harper (P) | Charlie Werth (P) | Jerry Wolff (P) |
| LAWN DARTS | Jerry Wolff (P) | Steve Hulburt (P) | Wayne Angleberger (A) $\qquad$ |
| $\mathrm{H}-\mathrm{O}-\mathrm{R}-\mathrm{S}-\mathrm{E}$ | Braven Beaty (A) | Donnie Fairman (A) | Charlie Werth (P) |
| GREASED <br> WATERMELON | ANIMALS |  |  |
| ROCK SKIPPING | Jerry Wolff (P) | Wayne Angleberger (A) | Donnie Fairman (A) |
| SWIMMING | Walter Bowyer (A) | Greg Turner (P) | John Meany (P) |
| SOFTBALL | PLANTS |  |  |
| BADMINTON | Jerry Wolff (P) | Wayne Angleberger (A) | Todd Hermann (P) |
| HORSESHOES | Wayne Angleberger (A) | d) Steve Hulburt (P) |  |
| MENS SEED SPITTTNG | Braven Beaty (A) | Todd Hermann (P) | Greg Turner (P) |
| WOMENS SEED SPITTTNG | Bernie Roche (P) | Mary Ann <br> Angleberger (A) | Amanda Jorgenson (P) |
| VOLLEYBALL-MIXED | PLANTS |  |  |
| VOLLEYBALL-MIXED | Planta |  |  |
| VOLLEYBALL-WOMEN | PLANTS |  |  |

TEAM CAPTAINS: PLANTS: Bernie Roche ANIMALS: Giselle Thibaudeau Ross Walton

MOST VALUABLE: PLANT: Lynn Broaddus ANIMAL: Braven Beaty
FINAL SCORE: PLANTS: 105 ANIMALS: 54

## SALT POND FOLLIES <br> PART2

Video .Steve Hulburt
Skit. Hubert Keen et al.
Dance Panzie Dennis and Kathy Lundy
Guitar Jamie and Norm Christensen
Songs. Charlie Werth
Liede auf Lieben von Lehrer. .Charlie Werth and Melanie Haskins
Piano. ..... Lisa coe
Music .Frosty Levy and John Thamson
M.C.--Ross Walton


NATURAL HISTORY
lst Row: Lisa Pihos, Juanita McGhee
2nd Row: Teresa Colletti, Vicki Comer, Lori Johnson, Dale Wallace
3rd Row: Rob Simpson, Rick Tavenner, John Thomson, Paul Cabe, Terry Scoles

## AQUATIC ECOLOGY

lst Row: Bryan Misenheimer, Garnett Meller 2nd Row: Lori Havice, Dan Hornbach, Deborah Durr, Jim Bowyer


## COMMUNITY ECOLOGY

lst Row: Lisa Harper, Lisa Coe, Roberta Ell, Lynn Broaddus, Karen Streif, Walter Bowyer
2nd Row: Norm Christensen, Henry Wilbur


Twas a dark and stormy afternoon on Salt Pond Mountain. It was the fifth one in the past four days. The Community Ecology class sat in the lab trying to decide what to do.

Henry, looking distinguished in his Powdermilk Biscuits T-shirt, shorts and plastic thongs, with daughter Helen on his back saying, "Mommy, Mommy", said, "we will either map out a hectare of trees on the hill or count herbs. What will it be?"

Walter said, "I'd rather sit in an empty room and do nothing."
"This storm is really honking", remarked Roberta. "Why don't we have Lisa Coe practice her jazz number for the talent show?"

Lisa C. shook her head. "Uh uh, no way, man! I'm no where near ready. Why don't we get a keg and have a party?"

Henry looked at Norm, who was coming into the room. "I think that the situation is getting out of hand," said Henry. "No", Walter cried. "We could get a lot of people for the party and trample the hectare...".
"That isn't quite what we had in mind, Walter" interrupted Norm. "I could lecture instead."

Henry looked over his shoulder. "No need, Leroy. Helen has fallen asleep already."

Lisa H. piped in, "will we have Wild Turkey at the party? If not, I'd rather collect herbs and listen to Verdi."

Norm shakes his head. "I wouldn't mind lecturing. I could bring out my slides on the chaparral in California. At least we would see some sun."
"No thanks any way", says Henry. "If we were to lecture I could talk on how salamanders and frogs are nature's most perfect organisms. Too bad Tina got sick. A little rain wouldn't stop her and she'd get these wimps into the woods."

Just then Lynn burst into the room. "Sorry I'm late guys, but I just got a zillion pictures from my folks in the mail. You've just got to compare the pictures of my retarded foster brother to the one we have of Norm. It's ama zing!"

At this outburst Helen woke up and started crying for her mommy. Pictures passed back and forth and talk of future pitchers filled the room. Henry shrugged at Norm and turned to quiet Helen.

Oblivious to the commotion, Karen sat quiety in her corner rocking back and forth, hugging a round white object. She muttered over and over, "No volleyball again?!"

THE BALLAD OF NOBLE STP
THE GEL-JOCKEY'S WIDOW'S LAMENT

STP was a race SNAIL
And if he could talk He'd say "give me lettuce And a side order of chalk."

His shell it was dextral
His mantle was gold.
And the worth of his radula
Can never be told.
The race track was crowded As the snail race grew nigh The tension was mounting The betting was high

Against my intuition
On a tip from a thug I laid all my money down On Seattle Slug.

The fanfare was sounded Wayne fired the gun The snails all lunged forward The race was begun.

Ilex led on the first turn Antennae unfurled Followed closely by Speedo Also known as Mr. Earl.

And rounding the corner It was Martha the snail With Escargot close behind Gliding on his slime trail

But into the stretch
Passing 280-2
Came dancing and prancing My noble STP

Now the race it is over
But not all the fun
For there is yet another
Race to be run
All the snails follow Hiro
The Pied Piper of snails
And they'll race once again
In the lanes on his gels.

## A PSALM OF HORNBACH

Limnology is my destiny; I shail not want another.
It maketh me go down in wet places:
It leadeth me into the running waters.
It ruineth my soles:
It leadeth me on the paths of the benthos for its name sake.
Yea, though I search downstream, I find the fish upstream.
I fear great evil when on the Calypso.
The dredges and field units discomfort me.
It preparest a practical for me in the presence of mine ignorance:
It anointest my body with mud; my sieve runneth over.
Surely to goodness if I follow this vocation all the days of my life,
I shall dwell in Mountain Lake forever.
-----Debbie Durr


Back in the Summer of '84, fire damselflies and a dragonfly hovered around a pile of stones in company with the Great White Bug. Showing the close relationship, heretofore unrecogniz̄ed, between Hemiptera and Lepidoptera. The Great White Bug became a Monarch (var. montanis) ; the dragonfly flew off to metamorphosis into a praying mantis, an instance of holymetabolous development. Meanwhile two of the damselflies demonstrated Macauleyan mimicry, while another netted the first feathered insect on record (uneducated persons claimed it was a hummingbird). When the other damselflies attempted culinary entomology by grilling cave crickets, they declared the results acrid-Gryllacrididae, in fact. At last the bugs swarmed together to stridulate the old songs, singing "onmatidium, tidum tum, tum..." and "Cicindelidae, deedledae, deedledae...." Summer was over. Sigh!!!


Caroline Kennedy--Carol Macauley--Sandra Macauley-Debbie Matthews--John Meany--Marjorie Boyer--GWB


"An excellent specimen . . . symbol of beauty. innocence, and fragile life ... hand me the jar of ether."

"Gand I hate walkine thrnuah thie nlare at niaht"

"You imbecile! ... We flew 12,000 miles for THIS?"



The purported goal of this class was to study the varied and diversified biota of the southern Appalachians. Fortunately, the days we had assembled were about as diverse as the biota we studied. Nearly everyone developed special interests, and luckily most of them were field biology related. The study of mushrooms was a favorite section of the course, and John developed quite an interest in rare and unusual "Amanita's", as evidenced by his many questions (two questions in particular - the second of which was usually "Where can you find them?"). For a more detailed version of his scientific investigation, you'd have to ask John.

Field trips were an important facet of the class, and all the trips made for some entertaining experiences (at least when everyone was awake). Tawny's Cave was a new experience for most of us. I, for one, had seldom crawled into wet, dark, dirty holes in the ground. The camping trip to Mt. Rogers was certainly an enlightening experience as well. We safely got as far as Marion, Virginia where we thought Vicki's unerring sense of direction had failed her (it was soon apparent, however, that she was merely looking for the ABC store, like any good biologist). When we finally did get to the Mt. Rogers area, we got to see a lot of interesting fauna and flora, including that rarest of rare trees, Betula uber. We also found a great variety of mushrooms, many of which we were able to cook and sample. The following day, we did more field biology, including a trip to the Halston River where the most of us seined for fish with the infamous Joc Chamberlain. Unfortunately, the trip was cut a little short by some heavy rain combined with faulty weather forecasting.

Much more could be said about this class, however, some of it would be better left unmentioned. I'd like to thank the entire class for a great five weeks: Vicki for making sure we had food on field trips and that we always knew where we were; Terry for all of his jokes; Ranger Rick for his unselfish donations of time and effort (although I only have second-hand reports); Juanita for making things lively (just stay away from my toes); John for enlightenment with mushrooms; Lori for a fresh outlook for most everything, and unusually scientific discoveries like strange snails; Dale, for being herself; Lisa, for not making the class do aerobics; Teresa, for adding a small amount of variety to the class, and finally Rob Simpson for his great knowledge and good humor through it all.

Aldrich, Lee Alexander, Harvey Mary (Mrs.) Alexander, Helen Dave (Mr.) Altig, Ronn Angleberger, Wayne Mary Ann Tommy (13) sami, Takahiro Baccus, Ramone
Alecia (10 mos.)

Beaty, Braven Bonfield, Susan Bowyer, Jim Bowyer, Walter Breden, Felix sroaddus, Lynn Butowski, Nancy Cavigelli, Michel Colley, Jack Dooley, Jim Fairman, Don Grosse, Andrea arper, Lisa sskins, Melanie rmann, Todd erndon, Ray ii11, Jim Hughes, Austin \& family
Hulburt, Steve
Akke (Mrs.)
Michael ( 9 mos.) Jorgenson, Amanda Keen, Hubert Ketterson, Ellen

Lacey, Elizabeth Lawson, Ellen Lundy, Kathy

Ornithology
Post-Doc
Post-Doc
HERPETOLOGY
Business Manager
Secretary
Research
Post-Doc
Herpetology
Res. assist.
Herpetology
Herpetology
Research
Quant. Meth.
Ornithology \& Alloz.
Plant Ecology
Research
Research
Ornithology
Res. assist.
Plant Ecology \& Alloz.
Quant. Meth. \& Alloz.
Plant Ecology \& Alloz.
Herpetology \& Alloz.
Research
Post-Doc
Caretaker
Research
Herpetology
Research
ORNITHOLOGY
PLANT ECOLOGY
Res. assist.
Res. assist.

Chapman
Rafinesque
Catesby
Laing Center
Gattinger

Michaux
Aud ubon
Elliott
Laing North
Laing North
Laing NW
Laing Single
Laing Single
DeSchweinitz
DeSchweinitz
Laing West
DeSchweinitz
Chapman
Chapman
E1liott
Audubon
Laing South
Laing West
Hent $z$-Mohr
MLBS

Elliott
Hariot
Burns
Holbrook
Laing Single
Elliott

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Pease, Jim
Poulos, Margaret
Redmond, Ann
Reed, Ron
Robbins, Louise
Roche, Bernie
Schedler, Ruth Anne
Smith, Jerry
Stephenson, Steve
Barbara (Mrs.)
Becky (6)
Suby, Susan
Thibaudeau, Giselle
Travis, Joe
Turner, Greg
Walton, Ross
West, Susan
Werth, Charlie
Williams, Robert
Witherspoon, C'arol
Wolf, Licia
Wolff, Jerry
Ziegenfus, Charles "Zig" Res. assist

Research
Quant. Meth.
Quant. Meth.
Post-Doc
Quant. Meth.
Herpetology \& Alloz.
Plant Ecology
Quant. Meth.
Ornithology
ORNITHOLOGY

Allo zyme Workshop
Ornithology
Plant Ecology
Research
Res. assist.
Research
Quant. Meth.
Res. assist.
Quant. Meth.
Research

Plant Ecology
Librarian
QUANT. METH.
Ornithology
Res. assist.
Babysitter
ALLO ZYME WORKSHOP
Plant Ecology
Plant Ecology
Research
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Mitche 11
DeSchweinitz
Audubon
Maphis
E11iott
Audubon
Chapman
Chapman
DeSchweinitz
Burns
Laing South
DeSchweinitz
Elliott
LeConte
Laing West
Laing Single
Chapman
Chapman
Aud ubon
Schoew

E1liott
Michaux
LeConte
DeSchweinitz
Catesby
Elliott
Banister
Audubon
Chapman
Laing Single
Clayton

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