

# PINETUM • 1955

*Journal of  
School of Forestry*



North Carolina State College • Raleigh, N. C.

The  
**PINETUM**  
1955

JOURNAL OF FORESTRY  
N. C. STATE COLLEGE  
RALEIGH, N. C.

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## Foreword

As time passes and we the students pass on to our chosen work, let this PINETUM stand with the others as a memory of the trials and tribulations of school.

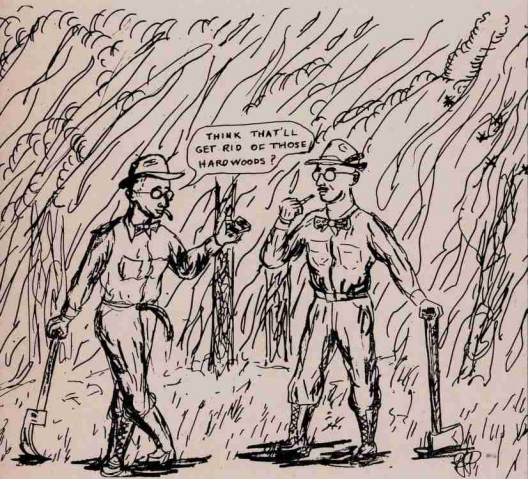
Here is the 1955 PINETUM.



### *Dedication*

*To Dr. W. D. Miller, Associate Professor of Silviculture, a real friend with unfaltering faith and interest in every student, a devoted teacher and counselor, and a man who stands ever ready to aid those who call upon him, we sincerely dedicate the 1955 Pinetum.*

# FACULTY and STUDENTS









OSVALDO ALFARO  
*"Oswald"*  
Forest Management  
Forestry Club



JOHN M. ARCHER  
*"Arch"*  
Forest Management  
Forestry Club, Alpha  
Zeta, Pinctum Ed., Pub-  
lication Board, Rifle  
Team



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*"Duke"*  
Forestry Management  
Forestry Club

JOSEPH BELOTE BROWN  
*"Joe"*  
Forest Management  
Forestry Club



JOHN CHAPMAN  
*"John"*  
Forest Management  
Forestry Club



FIELDS WHITE COBB, JR.  
*"Shorty"*  
Forest Management  
Xi Sigma Pi, Alpha  
Zeta, Blue key, Forestry  
Club, Judicial Board





CLIFFORD E. CRAMER  
"Clif"

ΣΧ  
Wood Products  
and Merchandising  
Forestry Club, F.P.R.S.



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"Laird"

ATP  
Wood Products  
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Forestry Club, F.P.R.S.,  
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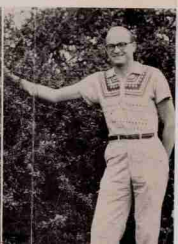
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Forestry Club

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"Tom"  
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Alpha Phi Omega, For-  
estry Club



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Berry Dorm, Sec. 3 Vice  
Pres. 4

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*"Dad"*

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Forestry Club, Xi Sigma  
Pi

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*"Bob"*

Forest Management  
Xi Sigma Pi, Forestry  
Club, Sect'y.





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*"Beaky"*  
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 Wood Products  
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 Gov. Repres., Forestry  
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*"Joe"*  
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 Technology  
 Forestry Club, Xi Sig-  
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 Xi Sigma Pi, Dormitory  
 President

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*"Teke"*  
 Forest Management  
 Forestry Club, Vice  
 Pres. 3, Pinetum

JOHN WALLACE TESTER  
*"John"*  
 Pulp and Paper  
 Technology  
 Forestry Club, Student  
 Govt. 2, College Union,  
 Chm. Outing Comm. 2,  
 Chm. Activities Comm.  
 3, Pres. 4, Chm. South-  
 eastern Region Associa-  
 tion of College Unions,  
 4, Alpha Zeta, Blue key,  
 Xi Sigma Pi. C.U.S.C.

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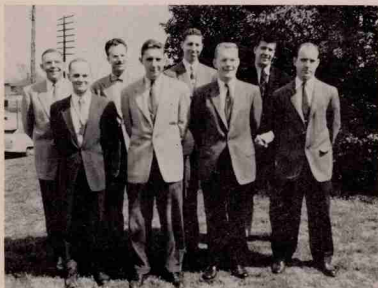
## SOPHOMORES



## FRESHMEN



## GRADUATE STUDENTS



## FACULTY



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of Forestry, N. C.  
State College.



DR. J. S. BETHEL  
Professor of Wood  
Technology.



DR. R. C. BRYANT  
Professor of Forest  
Economics.





R. M. CARTER  
Head of Wood Technology and Wood  
Products Merchandising Curricula.



DR. J. V. HOFMANN  
Professor Emeritus,  
School of Forestry.



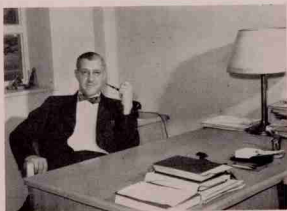
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Robertson Professor  
of Pulp and Paper  
Technology.



DR. T. E. MAKI  
Professor of Forest  
Management and  
Research.



DR. W. D. MILLER  
Associate Professor  
of Silviculture.



G. K. SLOCUM  
Associate Professor  
of Forestry.



LENTHALL WYMAN  
Professor of Forestry.



## Mr. A. C. Barefoot

By CHARLES WEBB

Although Mr. A. C. Barefoot is a new member of the staff this year, he is not a newcomer to State College. He comes from Angier, N. C., and received his B.S. in 1950 and M.S. in 1951 in Wood Technology here at State. At present he is working on his D.F. at Duke University.

For a period of about four months, beginning in the fall of 1951, Mr. Barefoot was in charge of quality control for the Henry County Plywood Corporation. He was statistician for the Forest Products Laboratory, Madison, Wis., during the summer of 1953, and, during 1954, Mr. Barefoot was lab technologist here at State. Last September he became superintendent of the wood products laboratory and an assistant professor in Wood Technology.

Mr. Barefoot is a member of Xi Sigma Pi, the Masons, Forest Products Research Society, Alpha Zeta, and Phi Kappa Phi.



## Mr. Robert G. Hitchings

By CHARLES WEBB

Mr. Robert G. Hitchings, of Syracuse, New York, is one of the newcomers to the faculty this year as an assistant professor in the Pulp and Paper curriculum.

After receiving his B.S. degree in Pulp and Paper Technology in 1943 at New York College of Forestry, Mr. Hitchings was employed by Beckwith-Chandler Company, Newark, New Jersey, doing work in paint and laquer development. Near the end of 1944, he went into the Army and served two years with the Special Engineering Corps, Manhattan District, Oak Ridge, Tennessee. Mr. Hitchings served as paper technician at the New York College of Forestry in 1946, and joined the staff in 1947, serving in that position until 1952. At that time, he became head of the pilot plant research, also connected with the New York College of Forestry. Last September he joined the State College faculty.

Mr. Hitchings is a member of the Technical Association of the Pulp and Paper Industry, the Canadian Pulp and Paper Association, and Sigma Xi. He is also a member of the honorary forestry fraternities Xi Sigma Pi, and Alpha Phi Sigma, and the social fraternity Beta Theta Pi.

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Miss Maybelle Taylor,  
Mrs. Frances Liles.



# A CHALLENGE---and AN OPPORTUNITY

Today the forests of the South produce over 60% of the nations supply of pulpwood in addition to trees for lumber, poles and many other uses. Recent surveys predict an even greater portion of the nation timber needs will come from the forests of the South.

To meet this ever increasing need for continuous crops of trees is a challenge—and an opportunity—to all foresters. Your help is needed to meet this challenge.

We wish you much success as you take your place among the graduate foresters now at work in industry, government and others throughout the South.



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# STUDENT ACTIVITIES



## The Rolleo

T was the day after HAZEL  
and all through HILL FOREST,  
not a creature was stirring  
not even a prof.

The trees were all strown  
in the road without care,  
as to block any traffic  
which might pass by there.

Then all of a sudden  
right out of the blue,  
came a whole wrath of Forestry boys  
and a gang of profs too.

They sprang from their autos  
making such a clatter,  
then topped that all off  
with boisterous cries and loud chatter.

I next saw this chap who had on a green hat  
with a wiskbroom attached to one side,  
leap clear of his jeep and take off through the woods  
being out of sight in less than three strides.

An old smelly pipe  
clinched tight in his teeth  
bellowed out smoke  
circling his head like a wreath.

He had a right jolly old face  
and a big round belly,  
that shook when he groaned  
like a bowl full of jelly.

I knew at a moment  
who it must be,  
but I've forgotten the name  
so I'll leave a space free \_\_\_\_\_.

Now being down curious  
and wanting to know more,  
I found (to my amazement) this to be  
the ROLLEO of NINETEEN FIFTY FOUR.

It was soon underway  
with volleyball games going,  
and while this went on  
I observed the rock-throwing.

Joe Lawson, a Sophomore,  
easily won this,  
for in one mighty heave  
his rock left the earth with a hiss.

Then while the archery contest  
was about to take place,





DISTANCE

ACCURACY

a Junior, Don Horton, won the hundred yard race  
and a Senior, Percy Hardy, came in second.  
Colonel Moody, a Senior,  
took first on the archery line,  
while a Sophomore placed second  
his name, Paul Pickenheim.  
In the meantime  
down in the horseshoe-pits,  
Seniors Willie Curtis and Earl Rayburn  
won with a ring of high hits.  
By this time the volleyball games  
had come to their end,  
the Seniors winning, Sophomores second,  
Juniors third and the Freshmen just grinning.  
Don Horton won the standing broad-jump  
and while I took a brief rest,  
A freshman won the bait-casting contest.  
The log-bucking event  
was next on the list,  
and amidst hearty howls  
Ray Sluder and Gilmer Green took this.  
Next came a rather  
bloody sight,  
they ended up calling it  
an Indian Hand Wrestling Fight.  
A Freshman and Sophomore  
were first to start out,  
Joe Lawson winning  
for the Sophomores shouts.  
Then Joseph Emil Tekel  
and Gilmer Green swaped hides,  
to see who would win  
for the Junior-Senior side.  
They groaned, twisted,  
tripping they sprawled,  
Joseph Emil Tekel  
winning two out of three falls.  
At last the final round would begin  
and Lawson and Emil  
clinched like two mad men,  
but Tekel won out in the end.  
I then saw the chap  
that I mentioned before,  
lay down strips of brown paper  
and I wondered, What for?  
Finally four lads lined up  
for what they call the tobacco spit,  
and that fellow I mentioned  
almost got hit.

Bill Huxster, a Senior,  
rearing back like a horse let go,  
and won a blue ribbon  
for the distance show.

Monroe, Pickenheim, and\* the Duster  
called out for their best,  
when put up against Huxster  
just couldn't meet the test.

When the accuracy part  
was brought to the attention of the men,  
Sophomore, Jack Kelly,  
thought he'd enter in.

He stepped to the line, did his best  
lowering his chin he wiped off the rest.  
Needless to say Huxster won  
and the chinning event was the next line of fun.

Vito Giliberti  
took top honors for the Juniors,  
and pulling in second  
was John Swift, a Senior.

Eight men were lined up and given  
a board, two matches, and a hatchet beside a marker,  
and the winners of the fire-building contest  
were Jack Kelly and Joel Parker.

A barrage of fire  
filled the forest with an echoing noise,  
and the winners of the rifle-shooting match  
are the following boys:  
John Archer first and Vito Giliberti second.

Seniors took first place  
for the tug of war,  
second place going  
to the Sophomores.

Don Calderon was fast man  
being first on the rope climb,  
and Gene Hill was the next fastest  
fellow up the vine.

I then heard a bell  
and all left the vine,  
they made a mad dash  
and formed a huge line.

A Hooker Horton and Ed Nobies,  
cooks of the lot,  
had prepared a supper  
and from what I was told, at least it was hot.

Finally the fellow wearing the green hat  
placed a finger to the side of his nose,  
and giving a snort  
from the table he arose.

He took out his pipe  
and said with a moan,  
"Good night to all,  
it's time to go home.

By B. W. FARLEY

## SMITH INDIAN FIRE PUMP



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# Forestry Club

FALL	OFFICERS 1954-'55	SPRING
Fred Monroe	<i>President</i>	Jim Webb
Joe Tekel	<i>Vice-Pres.</i>	Billy Dozier
Bob Larkey	<i>Secretary</i>	Sam Hudson
John Swift	<i>Treasurer</i>	Jack Kelly
Vito Celiberti	<i>Sgt.-at Arms</i>	K. O. Summerfield
Ben Farley	<i>Program Chm.</i>	Charlie Webb
Jim Webb	<i>Ass't Program Chm.</i>	Paul Pickenhiem
Bill Huxster	<i>Rolleo Chm.</i>	
Paul Carson	<i>Ass't Rolleo Chm.</i>	
Hooker Horton	<i>Ass't Rolleo Chm.</i>	

This is an appeal to every forestry student at North Carolina State College to support your Club. Anyone in the School of Forestry is a member, regardless of his class or forestry major.

While you are a student here, your academic work should be your major activity. However, a well-rounded education includes extra-curricular activities, in which you as a college man should participate. It is my firm conviction that the most important of these activities is membership and participation in the Forestry Club meetings and activities.

The Club is responsible for the Rolleo, a field day which is held each October; the Loggers' Brawl, a dance held at Hill Forest; and the publishing of the "Pinetum", the Schools' yearbook.

New and revised activities such as a spring outing, and Duke-State Forestry school get-together, a College Union Carnival Night entry, a club football team, and the Associate membership committee provide many interesting outside activities.

Each week varied programs, ranging from talks by technical men on some phase of forestry to slides taken by our own students, to mountain music, are presented.

These club meetings and activities are for you. You can gain something from them that no textbook contains. This is a fine opportunity to start making life-long contacts in your chosen profession. Give it a try—this is your Club.

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## Xi Sigma Pi

By THOMAS R. FRAZIER

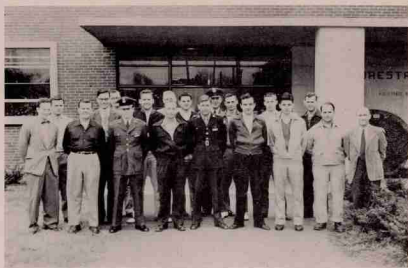
Xi Sigma is the oldest and largest national honorary forestry fraternity in the colleges and universities of the United States. Mu Chapter, which was founded in 1940, is one of 18 active chapters.

The objectives of Xi Sigma Pi are to secure and maintain a high standard of scholarship in forestry education, to work for the upbuilding of forestry, and to promote fraternal relations among earnest workers engaged in the various forestry activities.

Members of Xi Sigma Pi are chosen for their scholastic ability and their contributions to the School of Forestry and the entire school. Many students who have the scholastic ability are not members because of their apparent lack of interest in the School of Forestry.

Xi Sigma Pi gives two awards each year to deserving students. Each year at the Rolleo, the Freshman that had the highest average the previous year is presented an axe for his accomplishments. At the end of each year, the graduating senior with the highest scholastic average for the four-year period has his name engraved on the Paul Bunyan Axe in the forestry lounge.

Xi Sigma Pi sponsors, whenever possible, noted speakers who present talks on the various aspects of forestry. In addition to this, members have contacted various high schools throughout the state, explaining to the students the opportunities in the profession of forestry.



## F. P. R. S.

By R. M. CARTER

**OFFICERS:** *President*, Ralph Busic; *Vice-President*, Emil Seaman; *Secretary*, Charles Kerns; *Treasurer*, E. L. Dallery

This Student Chapter of the Forest Products Research Society, established at N. C. State College 4 years ago to provide an opportunity for students interested in forest products to keep abreast developments in other fields, has members in 4 curricula; Wood Technology, Wood Products Merchandising, Pulp and Paper Technology, and Furniture Manufacturing and Management.

Chapter meetings held once a month have covered such varied subjects as Developments of Glues and Gluing, Abrasives in Wood Working, Hardwood Utilization Trends, Furniture Finishing, Chipboard Manufacturing, Production Scheduling and Control, Veneer and Plywood Industry in Yugoslavia, and Marketing Lumber Products. Industry representatives appearing on the programs pointed out many opportunities for graduates and acquainted students with problems of the wood industries which need technically trained personnel to solve them.

Student members of the Forest Products Research Society may receive the Societies' *News Digest* and the *Journal*. Articles in these publications are excellent aids for writing papers and reports and also supplement course work.



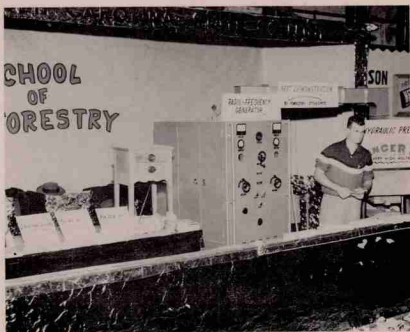
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## The Fair Exhibit

By WILLIAM T. HUXSTER, JR.

The Forestry School placed an exhibit of High Frequency Gluing in the 1954 North Carolina State Fair. The display contained: the high frequency machine operating in conjunction with a six inch hydraulic cold press for the high frequency gluing demonstration, educational signs publicizing the Forestry School, and a display depicting the progress of manufactured furniture from the raw material to the finished product with emphasis on high frequency gluing in manufacture.

Most of the booth ideas came from Forestry Extension and the faculty. Graduate students and members of Xi Sigma Pi managed the booth during the week of the fair. These men working in pairs, would explain the principles and advantages of high frequency gluing in commercial operations. A poplar billet was glued for demonstration purposes and while the crowd was still present, sweet gum and river birch veneer book marks containing the Forestry School seal were passed out to everyone. Pamphlets and folders of the school were also distributed.

The Fair Exhibit was a huge success in that it served to sell the Forestry School and bring realization to the people of North Carolina some of the technical aspects of Forestry.

# Memos of Summer Camp

By JOE TEKEL

Summer Camp started off with a bang in the form of a horseshoe on Moltrop's head. It seems like the horseshoe pit is a little too close to the main cabin. Other than this slight mishap, nothing unusual happened to any of the crew and we all benefited from the experience, both physically and intellectually. We learned many new skills and practices which will benefit us in later life, when we will be shifting for ourselves.

It seems like the pros have developed a new method for debarking trees. This consists of wrapping 6 or 8 sticks of dynamite around the tree, igniting the fuse, and then running like hell. I'm sure some of the leading pulp and paper companies would be very interested in this new technique.

Another achievement accomplished this summer was the use of dynamite in leveling sawdust piles. This process is still in the experimental stage as it requires an unusually large supply of dynamite.

One of the things the boys really got a charge out of, was the forest industry trips. It is hard to believe, how we used to fight our way on the bus, eagerly anticipating those visits. They certainly helped to break-up the monotony and raise the troop's morale. The pros also benefited as there was an unusually high quality chorus constantly singing mellow tunes to help brighten the day.

Camp was really jumping during the weekends with all the boys there, and the frequent blasts we used to throw. Since the nearby hamlets were loaded with women, we really turned the place into a summer resort.

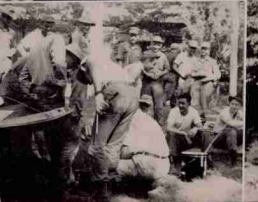
How sad we all were when we heard that we were going to leave Hill Forest and head up to the mountains, after all the good times spent in the "Virginia pine haven." It was sort of rough to leave after only 8 weeks.

Well, we finally got adjusted to our new environment. We soon learned that the game warden and the local folk were not to be trifled with. Most of us were pleased to hear that the county was dry since strong drink is the root of all evil.

The gals were not too cheerfully shared by the local men-folk, but we got along fine as long as we didn't look at em or say "there's some stock." We all went to the big hill-billy day square dance, where you start off with one gal and ended up with another by the time you went around the circle. Some of the gals just seemed to disappear into thin air.

We were most warmly received at Helen's Barn where we were greeted like long lost brothers. Such hospitality will long be remembered and we all hated to leave when they told us "you-uns can't talk to our wimmin that way". We decided that perhaps if we appealed to their sense of reason and came out in full force the next night, we could reach a mutual understanding. However, it seems as if we suddenly were required to hand in a mess of reports which kept us busy clear on up to the time we broke camp.

We feel that if we accomplished nothing else, the good will we built with the local people will be a great aid to those following us.





## Pinetum Staff

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**RALEIGH, N. C.**

# Student Work

By WILLIAM T. HUXSTER, JR.

Not all the work done for the Forestry School is accomplished by the faculty and Graduate students. Every fiscal year there is set aside in the budget for the North Carolina State Forestry School a certain tidy sum for student labor. Student labor may be defined as student personnel willing to do highly skilled labor for minimum wages at a race horse pace. Before we go any further, let's examine the definition. This definition may sound as though student labor is down trodden, but it isn't. By working for the school in the Wood Products Laboratory, a student has a chance to practice some of the theory that was presented to him in class. Some of the work done by students this year is as follows: Logging, sawmilling, stacking lumber for air-drying and kiln-drying, dry-kiln operation, plumbing maintenance, veneer production, maintenance and repairs on rolling stock, reconditioning of state surplus purchases, placing a new body and seats on the Ford truck, etc., which has added to the experiences of the working student personnel. The Hill Forest has also been responsible for a substantial amount of student work. This year 20,000 Loblolly Pine seedlings plus many seedlings of other species will be planted out there, and all by student labor. It is hoped that Student-Forestry School relations will continue in the future, as both the school and the students benefit by an agreement of this type.

## The Xi Sigma Pi Award

Between events of the annual Rolleo at the Hill Forest, Forester Tommy Frazier of the Mu Chapter at N. C. State College presented the annual award to the Sophomore with the highest scholastic average as a Freshman in Forestry. This year's winner was Paul John Pickenheim, a student in Forest Management. He was presented a cruiser's axe in recognition of his high achievement. Paul hails from Tamaqua, Pennsylvania.

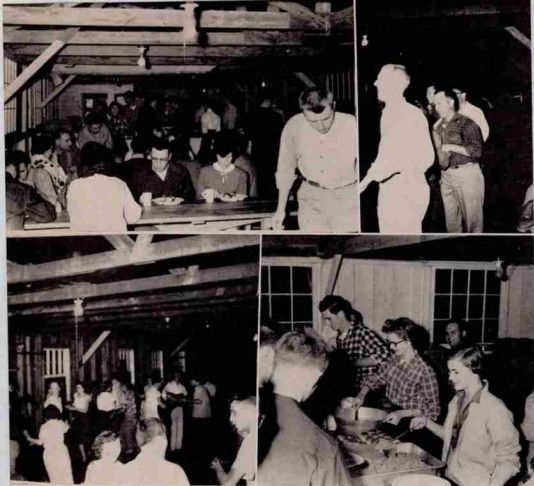
## Sluder Gets Scholarship

Each year a \$200 annual undergraduate scholarship is awarded by the Southern Division of the American Pulp and Paper Mill Superintendents Association to the outstanding junior in forestry.

Earl Ray Sluder, a junior in Forest Management from Newland, N. C., has been chosen to receive the scholarship this year.

Earl is an active member of the Forestry Club, and Xi Sigma Pi.

The announcement of the scholarship was made at a luncheon attended by the leaders of the South's paper, wood products, and forest industries.



## The 1955 Logger's Brawl

By BILL HUXSTER

The time is 1975. A reunion of the class of '55 is being held at the Hotel Hillsboro (currently the best in town). A father and son banquet is in progress with everything being copensetic, when from the back of the room a young voice pipes up and says, "My daddy told me that when y'all went to school, y'all didn't do a thing but study and go to Forestry Club."

Well, that's about all an old timer like me could take. I got the President's attention (actually he was at ease) and I asked him if I could answer that young'n. He said I could and here is about how it went.

"Friend I hate to tell you, but yer wrong, daid wrong. Back in the days when yer pappy and me came through, we'uns kept up our social life with the best of the hell rais'n State College boys. Why, we'd be romp'n

and stomp'n every weekend, and during the week when quizzes wasn't press'n us too hard. Well, we was satisfied with this predicament, but we figured that the profs won't enjoying themselves so we got together and decided to have a big stomp'n at the Hill. As I recall, hit was about the fifth of March when we had the thing called the **LOGGER'S BRAWL**. Now friend, they was damn few loggers thar, but they was some mighty pretty females present. We got up thar purty close to Four in the even'n and noticed that the weather was mighty warm and unseasonal like. All at once hit started to rain. Hit would quit rain'n and start a hail'n golf ball size, and hit kept that up all dang night. Now the weather might have been a might dreary, but that crowd kept on having a good time. Supper kind of disappointed me, in that they didn't have hog chittlins. Oh, the rest of the fellers and gals enjoyed that barbecued hog. I reckon hit was because Sludder and Monroe bought a mountain of hog and cabbage, I really don't recollect. Now after everybody had fed up, them ridge runners headed by Charlie Webb started to pick and sing. Well now, every-one of us except them that was court'n in the cabin, was up thar a stomp'n and a gett'n with it, friend. When Charlie would get tired, he'd play the phonygraph one time with that dressy music for them utilization students. He'd play one side, then we'd start a stomp'n again, I mean. Hit won't too long and a feller appeared who could really call them square dances. I believe his name was George Madris. Oh yes, somehow the word got about that the Forestry Club was a giv'n a real prize for the Bull and Bell of the woods. Well, to make a short story long, Tom Frazier and his purty wife was dressed about alike in Levi's and rider's jackets. What really wone the thing was that jug she was a tot'n. What I mean, that thing was full. Ole Jim Webb, the president, gave them the prize. I don't recollect what hit was cause hit's been 20 years, but you can believe hit was something powerful big. Now before I forget, I want to say that a few of the profs turned out. I remember ole string tie Briant with his wife and young'n came in with his Chippewa Loggers, Pappy Slocum drug his woman out to the affair (Hit could have been the other way), Dr. Maki drug his wife and young'n out, and if there was anyone else I just don't recollect. Of course this good ole stomp'n party had to come to an end. You see the profs got tired around 11 o'clock and we had to leave the Hill. Son, that was one big social, I mean."

With the end of the speech, that little boy sat down and didn't say another word. After the banquet his pappy came up to me and said, "I'm sorry Hoss but I'm try'n to raise my young'n good and clean, not like some of us were back in them days. You see, it was his ma and me who missed a lot of that stomp'n that night."

Yes sir, that was one real **LOGGER'S BRAWL** back in '55.



# Facts Be Hanged

By W. C. MOODY

"You graduate this year don't you John?"

"Yes, that is if nothing goes wrong. Its going to feel fine to get out of this place and tie into a job."

"Think you are ready?"

"Now that's a good question, but I've spent four years in college and had a little of everything slung at me. Maybe now I will be able to get out on my own and apply some of it."

"You gol-dang guys never learn do you! That snake skin hanging there will get more done on its own in the next five years than you will!" Stated the angry prof. "You are in for the shock of your life when you walk out of here and show up on a job trying to use what you have been taught here."

"What does it take to make students realize they are not foresters when they receive that little sheepskin? What you have been shown here HAS been done, but you may or may not use it. You probably never will use the Wausnogism formula; you won't have time to go into the fancy lace of forestry. You have to have the principle, but the rest will be filed in the back of the mind."

"Why make us spend four years reading books just to get a goathide if that is all it is going to be worth?"

"Why hellsbells! You didn't expect to have all the facts ever collected on management stuffed in that thick skull did you?"

What's the four years for then if not for learning most of the facts, you haven't answered that yet?"

"Facts be hanged, its the principle not the fact you've spent all this time learning or trying to learn. Let me ask you just one question! What good are the facts without the principle of the phenomena?"

The ones that I feel sorry for are those students that haven't worked in forest problems. I mean to really wade in waist deep and find out everything there is to know about the problem, starting from scratch. I don't mean a summer job trail blazing, smoke spotting, or doing TSI either; what are you spending so much time and money on your brain for if you don't use it as much as your back muscles."

"The school requires that we work one summer, they wouldn't insist on that if they didn't think that it was the best thing would they?"

"That is just the exact thing I mean. It is the best the school can offer in the short course of four years. It takes time to put any honest effort into any kind of work."

"Well, what about the co-op system, those boys spend a lot of time in the field."

"Now you are getting smart John, and take your hat off while you speak of the co-op."

"That is the smartest thing a student can do and if they asked me (which they don't) I would say make every student, that hasn't had two years in good field work before he came to college, take the co-operative program. Private industry and the school are willing but the student just doesn't

seem to realize the value of intergrated field work. Why more don't grab at the chance for learning and wages instead of learning and tuition is beyond me."

## Foresters on the Road

By GEORGE DICKSON and PERCY HARDY

One cool afternoon last June three forestry students staggered out of Dr. Maki's silvics exam and headed for the wild west. Ten miles out of Raleigh a black cat crossed their trail. Little did they realize what an omen of misfortune this would turn out to be. One member of the crew advised turning back at that point, but was talked out of it by the other unknowing idiots.

The first night was spent in the glorious free state of Virginia to let the heathen get one last taste of civilization. Bright and early the next morning the ordeal was begun; about noon the party passed into the Yankee territory of Pennsylvania, the home range of the bull known as Slocum. They had had their last glimpse of the land of sunshine and the rain descended in torrents.

After depositing a nominal fee, the crew finally got out of the wagon track known as the Pennsylvania Turnpike. It started raining harder. They set up camp that night at the Eric watering hole in a trading post called Cleveland. Blowing out of Ohio the next day to the tune of a howling gale, the trip continued smoothly with only three flats during the day.

Stopping for supper without an interpreter that night proved disastrous. The crew ended up dining on some super-juice that the natives had the audacity to call cheese. The final blow fell when an old native had the nerve to ask if the boys were all brothers. Realizing they were in hostile territory without any beads to trade, the crew decided to push on that night. After they thought they had out-distanced the goat wagons, they set up camp along the trail. Posting a sentry at the outskirts of camp, they settled down for a restful night. Suddenly the enemy was upon them. The sentry was overwhelmed and left with only shorts and flashlight, minus sleeping bag and dignity. Hastily breaking camp they pushed on to a cross roads community seeking protection.

They spent the remainder of the night unknowingly in front of one of the local houses of ill repute, so they were informed at 3 A.M. by the local constable.

The next morning they presented their letter of introduction from Dr. Maki at the border of the State of ten thousand pot holes, and were in turn allowed safe passage.

The journey reached Dakota amid a nice peaceful tornado which almost shook the auto apart. It was in this territory that a bad situation arose for the foresters, as well as the hound dogs, i.e. no trees.

Suddenly the party had come to their first view of the snow capped Rocky Mountains, whereupon one member of the party had to be bound and gagged to prevent his prompt return to the land of sunshine. At this point, half a day was spent digging the automobile out of the surface of one of Montana's first class highways.

As the group reached the mountains, one of the smaller boys known as "the Cud" took the wheel. The other two cowered in the back seat, afraid to look. After a breath-taking ride down the roller coaster, through snow banks and across ice floes, they descended into a village planning to stay awhile. Kicked out of town before dark, they had to beat it for Idaho. After stopping in Wallace for refreshment, they made it to Kellogg for something to eat.

The mis-adventurous trip finally ended in Spokane where the crew managed to go up 7 out of 8 one way streets the wrong way. After spending the night in skid row, the three foresters split up to go their respective ways, each hoping the hell he'd never see the other two again.

## Life On A Lookout

By C. A. HOOD

Whenever a person makes the statement that he has spent a summer doing lookout work, his statement is met with the usual reaction. This reaction varies between weird looks, and inquiries as to whether or not there is any history of insanity in the family. I usually answer the weird looks with an air of disdain; and the implications by replying with that old cliché, "Go to :?\*" . However, I feel that the time has come when I must refute the maligned name of lookout work, and paint it in its true light. In other words, give out with the straight poop.!

I had the good fortune of experiencing two months of lookout work for the United States Forest Service the summer of my freshman year. My lookout (Frisco Peak) was located in the heart of the Salway-Bitterroot Wilderness Area of northern Idaho. It was thirty-five miles from the nearest road and fifty miles from the nearest habitation. The lookout cab was a roomy fifteen by fifteen feet, complete with stove, bed, radio and alidade. Other modern conveniences included a manually replaced woodpile, a spacious outhouse, and a spring which was a brisk one-half mile from the lookout.

The usual conception of lookout work is that it is a dull routine with little to do except become far-sighted while looking for fires. Friends, this is a brazen, cotten-picken, pseudofactual fib. While on Frisco, I had wood to cut, meals to cook, dishes, windows and clothes to wash, water to haul, daily activity and weather reports to write, trail to work, and hourly smoke observations to make. When fire season arrived in earnest, I located and reported 18 fires, chasing and suppressing four of these. August saw a 1,200 acre fire which almost consumed the lookout, yours truly, and 50 firefighters before reinforcements arrived and the fire was brought under control. Yep, sure is dull work.!

For the person who enjoys seeing wildlife in the raw, the lookout is the place to observe it. I saw elk, moose, black bear, deer and grouse aplenty. Before the fire-danger became high I received permission to go fishing and fished several small sub-alpine lakes which had been stocked with Eastern brook trout. The fish weren't lunkers (10 to 12 inches), but it was like fishing in a hatchery, and those trout didn't go bad in the skillet.

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# THE SCHOOL

## Progress Report For 1953-54

By R. J. PRESTON, Dean

The School of Forestry has continued to make important advances during the current year toward its goal of achieving high excellence. We know that the real measure of our worth as a School rests with the record of our alumni and our efforts toward excellence lie in improving our teaching programs and in the growth and stature of our faculty. Fine buildings and equipment are very important, but less so than an alert, able student body and a faculty recognized as leaders in their respective fields.

With the completion of our new pulp and paper building our physical facilities will be much improved. We still need an adequate building for our sawmills, veneer lathe, and preserving tanks and this will be our next major goal. The new pulp and paper building should be ready for occupancy in early 1956 and will provide us with excellent quarters for this rapidly growing program which has been recognized by the Southern Regional Board as the one to serve the entire South.

Our student body continues to grow, although more slowly than we desire. Total enrollment for this year is 223, with 94 freshmen, 48 sophomores, 28 juniors, 37 seniors and 16 graduate students. This makes us the largest of southern forestry schools. It is interesting to note that these students come from 25 states and 2 foreign countries, giving us a truly regional status. It is also interesting to note that 9 students are sons of fathers prominent in forestry work and that next year we expect to have second-generation foresters enrolled.

One interesting fact concerning enrollment and alumni is that while we have a large out of state enrollment a study of our 600 alumni indicates that 45% are now living in North Carolina, 70% live in North Carolina or contiguous states and well over 80% live in the Southeast. This reverses a common complaint that the South trains its young men at considerable expense only to have them move out of the South upon graduation.

Increased enrollment of high ability students is our greatest need, especially in our three utilization curricula, as job opportunities far exceed the number of graduates. Strenuous efforts have been made to build enrollment through establishing scholarships, preparing brochures and use of an excellent flip chart prepared by George Smith and duplicated for us by Champion Paper and Fibre Co. We are confident that next year's enrollment will prove these efforts successful.

We are gratified that for the past two years our forestry freshmen have been above the average of the entire college in ability. The Scholarship program which we are building up should bring this average ability still higher and enable us to turn out increasingly able graduates. For the coming year 10 Pulp and Paper scholarships are available which pay \$600 a year for four years and five individual scholarships are available with no restric-

tions as to residence or curricula which pay from \$200 to \$500 for one year. We hope we can increase this number of undergraduate scholarships and thus attract more deserving young men who need help into our programs. Ten research assistantships are filled this year with graduate students which pay from \$1215 to \$1800 a year and require certain services from the recipients.

Continuing our conviction that to be a truly great forestry school and render maximum service, we must work closely and cooperatively with all branches of the forestry profession, we held a meeting of our Advisory Committees in November. About one hundred forestry leaders attended this meeting a partial purpose of which was to incorporate a new Pulp and Paper Foundation to support our new program. A second meeting in February completed the establishment of the Foundation which is governed by 32 directors representing 16 Pulp and Paper Companies. Mr. E. J. Gayner, III, President of the Brunswick Pulp and Paper Co. is President of the Foundation, with Dwight Thomson, Vice President of Champion Paper and Fibre Co., Vice President of the Foundation.

Your faculty changes occurred during the year

1. Professor A. C. Barefoot was appointed Assistant Professor of Forest Utilization. During the preceding year Professor Barefoot served on our staff as Technologist. Mr. Barefoot received the B.S. in 1950 and the M.F. in 1951 from N. C. State College and is now completing his requirements for the Ph.D. at Duke University.

2. Professor R. G. Hitchings was appointed Assistant Professor of Pulp and Paper Technology. Professor Hitchings comes to us from the faculty of the New York State College of Forestry in Syracuse and is working with Professor C. E. Libby.

3. George W. Smith was appointed Assistant State Extension Forester replacing J. E. Ford, who resigned. Mr. Smith graduated with the B.S. degree from N. C. State College in 1948.

4. Mr. C. A. Hart was appointed Technologist working in the field of hardwood utilization. Mr. Hart received the B.S. degree from V.P.I. in 1952, the M.S. in 1954, and is now working on the Ph.D.

A few changes have been made in our curricula. We have introduced a comprehensive orientation course that runs all through the freshman year and includes one lecture and one all-afternoon trip or laboratory each week. This gives our freshmen an introduction to all aspects of the forestry profession and enables them to better select one of our four curricula at the end of their freshman year. In three of our curricula we have reduced to a minimum core the required forestry courses and have established a number of minor fields of specialization, enabling a student in his junior and senior years to group his electives into a minor field of interest to him.

Through the generosity of the U. S. Forest Service we have been given a long term lease to three large stone buildings in the old Nantahala National Forest headquarters area at Wayah Bald near Franklin. Our mountain camp has been moved to this location and with its outdoor swimming pool and recreational facilities this new camp in the high mountains nicely rounds out our facilities for off campus instruction. Our Forest Management majors now spend the last eight weeks of their senior year

in our camps, one of their projects being construction of a management plan that sums up and ties together much of the course work previously taken.

Many of our alumni have returned during the year to attend one or more of the 12 short courses which were offered. We hope more of you may come back to spend a few days as a student with us this coming year. These short courses place a heavy burden on a busy faculty, but we feel they form an important service which we should offer.

In closing, this has been a year of progress and we look forward toward even greater gains in the year ahead.

## The Hofmann Forest Report

By DR. J. V. HOFMANN, Manager—North Carolina Forestry Foundation

In addition to the long term timber cutting contract, the operation of the Hofmann Forest has been contracted to the Halifax Paper Company. Through this agreement the Paper Company is responsible for all timber operations, developments and improvements, hunting, fire protection and other activities. The Forestry Foundation retains such functions as timber cutting practices, development program and general policies concerning any issues involving the forest.

All equipment owned by the Forestry Foundation is operated by the Paper Company, primarily for development such as digging canals, road construction and maintenance. Three drag lines were transferred by the Navy Department to the Forest Foundation to be used for drainage and road building. One of these is now in operation in addition to the large Northwest machine which has done nearly all of the canal digging on the forest.

The development program has been centered on block 9 in the southwestern part of the forest and is now in block 8. The canal has been completed for the entire length of the Roper Road and cross canals are being dug in this block. The plan is to develop a block completely so far as canals are needed. Secondary drainage and road construction can be done with the road grader and plow.

Canals are urgently needed in the northern part of the forest. An area of more than 30,000 acres north of the Quakerbridge Road does not have a canal or road through it for access, or as a fire break. A fire of about 17,000 acres occurred in this area the week of March 21. More intensive fire protection is one of the major needs in order to safeguard the young stands and reproduction.

Hunting was permitted every day of the open season during 1954. The reports on game taken vary from good to poor but the number of deer taken was enough to keep the hunters interested. On the whole, it appears that the game supply is decreasing.

The Halifax Paper Company produced 18,146.22 cords of pulpwood during the year 1954, from the areas where drainage and road building have been completed.

The School of Forestry camp has been changed from the junior to the senior year. The seniors will go to the forest about April 1. The class will cruise Block 10, which is expected from the Paper Co. contract and is operated by the Forestry Foundation.

The Hofmann Forest is gradually improving in accessibility and restocking. Areas drained and not burned are increasing in production.

All bond and interest payments have been paid when due, with only a few years to go until the purchase price will be liquidated.



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FIRST FLOOR PLAN



BASEMENT PLAN

# Progress Report on the Pulp and Paper Building at the School of Forestry

By R. G. HITCHINGS

Following delays, both technical and financial, the building to house the pulp and paper program was started without ceremony during the middle of February, 1955, at the corner of Western Boulevard and Dan Allen Drive. At the present time, the ground has been scraped away, footings poured, and the concrete beams are appearing on the skyline slightly to the west of the Dry Kiln. With the present rate of progress, the projected date of occupancy is January 1, 1956.

The accompanying diagrams illustrate the room outlines of the 150 feet by 45 feet two-story building. The largest room in the basement, the mechanical and chemical wood pulp laboratory, will provide space for small digesters to cook ten-pound quantities of wood chips by the various commercial pulping processes. A rotary digester, refiners and screening equipment will also be located here to make it possible to investigate the preparation of unbleached pulps by all the known commercial processes. At the rear of this laboratory, a wood preparation room is provided to contain a wood chipper, chip screen, and other raw chip testing equipment necessary to determine accurately the quality of the raw chips prepared for digestion.

Adjacent to the wood preparation room will be located the pulp bleaching laboratory. It will be equipped for investigations in single and multistage bleaching operations. With constant temperature baths and analytical testing apparatus, the students will be able to follow close-

ly the changes in the pulps necessary to convert the dark brown, unbleached fibers to pure white products. Directly across the hall, the pulp testing laboratory will contain miniature test beaters, fiber classifiers, freeness testers, and sheet machines. Here students will make small sheets of paper suitable for physical strength tests that will enable them to judge and evaluate the properties of the experimental digestions and bleaching operations. Near the center of the basement, a locker room with showers will be provided for the convenience of students to clean up after laboratory sessions. A student lounge is also provided to allow students to relax during long laboratory assignments.

To provide space for graduate studies, four laboratories are to be equipped for advanced studies in pulp and paper research. The machine shop in the building will contain tools and facilities for maintenance and for building experimental test equipment. In the utility services room, the high pressure boiler providing steam for the small digesters, hot water heater, vacuum pump, air compressor, and air conditioning equipment for the paper testing laboratory will be located.

On the first floor, staff offices and space for a departmental library have been provided for. With the two classrooms, these facilities will allow the conducting of the majority of the senior courses without requiring the students to travel from one portion of the campus to another and back again. It is anticipated that the classrooms will contain laboratory demonstration benches and audio-visual devices to aid in formal class lectures.

One of the main features of the first floor will be the constant temperature and constant humidity controlled paper testing laboratory. It is imperative, in testing cellulose materials, that the temperature is maintained within  $\pm 0.5^{\circ}\text{F}$ . and the relative humidity within  $\pm 1\%$  of standard conditions to insure accurate results. Within this laboratory, the experimental pulps and papers will be tested to determine physical and optical properties.

The coloring laboratory is provided to furnish facilities for training in paper dyeing and color matching. In addition, test equipment will make it possible to determine the resistance of the colored papers to fading and chemical agents normally encountered in use. Adjacent to the color laboratory and close to the chemistry laboratory will be the balance room. In a separate room, the balances will be protected from the moisture and chemical fumes associated with other laboratory operations. The optical laboratory is also located to provide protection for microscopes and optical measuring equipment from corrosive fume damage normally encountered in pulp making processes.

The chemical laboratory will furnish an area where students will perform tests on experimental pulps and papers and commercial samples. Directly connected to the chemical testing laboratory, the oven room will provide ready access to circulating ovens for moisture determinations and muffle furnaces for the rapid reduction of paper and pulp samples for ash analyses. A laboratory stockroom has also been provided to store glassware and chemical reagents. Solution preparation will be carried out in the stockroom at a bench equipped with standard laboratory fixtures.

One of the unique features of the building is the use of channel floor drains in all the laboratories where wet pulp samples will be handled. Other laboratories are to be equipped with floor drains, thus permitting ease of floor maintenance and minimizing the dangers in removing spilled corrosive chemicals. All the laboratories where gases and fumes are apt to be generated will be equipped with corrosion-resistant ducts and exhaust fans. Provisions for the installation of safety showers and fire blankets have been planned in the chemical and wood pulp laboratories to decrease injury from accidental chemical burns.

In order to allow for further expansion of the pulp and paper program, the building contains design features which will allow the addition of a third story for laboratory and office space and the erection of a wing at the center of the rear of the building to house semi-commercial paper-making equipment.

With an eye toward the future, the details incorporated for minimum maintenance, resistance to chemical action, and flexibility to permit rapid piping and electrical service changes will make the building a valuable addition to the School of Forestry program. Members of the College staff and the designing architect made extensive visitations to collegiate and industrial pulp and paper laboratories to insure that this building will provide the best facilities for instruction in the field of pulp and paper technology in the United States.

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## Pulp and Paper Foundation, Inc.

The Pulp and Paper Foundation, Inc., was formally established on February 4, 1955, at the first meeting of incorporators. Prior to this time the charter of the corporation had been granted through the Office of the Secretary of State. This charter was approved at the February 4 meeting, as were the by-laws, and directors were elected.

The purposes of this new Foundation, as stated in the Certificate of Incorporation, are to aid and promote by financial assistance and otherwise all types of education and research in the field of pulp and paper in the School of Forestry at North Carolina State College. The Foundation is authorized to receive donations and carry out other activities to aid in the development of this program. To date, sixteen of the major pulp and paper companies of the South are supporting the program with minimum annual contributions of \$1,000 each. In addition, supplier memberships and individual memberships are being received. A budget of \$25,000 for the next fiscal year has been approved by the Board of Directors and will be devoted largely to scholarships and supplemental salaries. Authorization was given to spend up to \$9,000 for scholarships for the next academic year. Ten of these scholarships were designated to pay the recipient \$600 each year.

The program in pulp and paper technology in the School of Forestry has been designated by the Southern Regional Education Board as the regional school to serve the entire South in this field of education. A new \$225,000 building is now under construction to house this program. Through the support of the Foundation, the Reuben B. Robertson Distinguished Professorship in pulp and paper technology was established and Prof. C. E. Libby was brought in to head this new course of study. For many years Prof. Libby had headed up the largest program of pulp and paper technology in the country at the New York College of Forestry at Syracuse, New York. Also, through the Foundation's support, Assistant Prof. Robert G. Hitchings was brought to State College to work with Prof. Libby.

Officers of the Foundation are: E. J. Gayner, III, President; D. J. Thomson, Vice President; L. L. Ray, Secretary, and J. G. Vann, Treasurer. The Executive Committee consists of: K. F. Adams, E. H. Graves, C. E. Hartford, H. D. Hinman, and C. S. Huestis. The Board of Directors consists of: E. J. Gayner, III, and M. B. Pineo, Brunswick Pulp and Paper Company; W. F. Bowled and L. N. Rogers, Buckeye Cotton Oil Company; H. D. Camp and R. E. L. Wheless, Camp Manufacturing Company; R. B. Robertson, Sr., and D. J. Thomson, Champion Paper and Fiber Company; H. A. Eggess and E. H. Graves, Continental Can Company; L. F. Dixon and M. O. Schur, Ecusta Paper Corporation; Colin Gardner, III, and R. L. Miles, Gardner Board and Carton Company; V. Young and W. F. Gillespie, Gaylord Container Corporation; F. D. Gottwald and K. F. Adams, Halifax Paper Company; H. D. Hinman and I. P. Sim, International Paper Company; H. E. Whitaker and G. F. McCrea, The Mead Corporation; J. A. Aucher and E. M. Leavitt, North Carolina Pulp Company; W. D. Harrison and C. E. Hartford, Riegel Carolina Corporation; F. W. Brainerd and J. L. Madden, Scott Paper Company and Hollingsworth & Whitney Company; G. E. Dyke and C. S.

Huestis, Southern Paperboard Corporation; G. W. E. Nicholson and H. Y. Charbonnier, Union Bag and Paper Corporation.

The establishment of the Pulp and Paper Foundation will accelerate and assist in expanding and strengthening the instructional program in the School of Forestry and will do much to insure that a highly trained reservoir of future technologists will be available to the pulp and paper industry of the South. The pulp and paper industry is now the fifth largest industry in the United States, as well as one of the fastest growing, and its demands for technically trained men are therefore very great. Sixty percent of the pulp and fifty percent of the paper manufactured in the United States is now produced in this region.

## Hofmann Loan Fund

The Hofmann Loan Fund is still a growing concern and is being put to good use by needy students. To date ten loans totaling \$1,215 have been made. Four loans have been repaid in full and three in part.

On April 1, 1955 a total of \$1,402.08 had been deposited in the Fund. Loans outstanding totaled \$650.00, cash on hand was \$752.08.

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# Opportunities In Forest Entomology

By JAMES A. BEAL

Chief, Division of Forest Insect Research  
Forest Service

U. S. Department of Agriculture

At no time in the history of forestry in America has the outlook for employment of forest entomologists been more encouraging than it is today. This is true despite the fact that employment in this special field is currently at an all time high. During the past few years there has developed throughout the country a keen and enlightened interest in the insect problems of our forests. There are several reasons why timber growers have become more concerned with forest pests and the damage which they cause.

Probably the most important of these has been the increasing demand for wood and wood products and the accompanying rise in prices being paid for these materials. In addition, there is a growing scarcity of sawlog trees and other high-quality timber. Furthermore, it has become evident that insect-caused losses outrank those of all other natural enemies including fire. Increasing activity in reforestation and planting programs also has alerted a larger number of owners of forest lands to the importance of safeguarding their investments by protecting their seedlings and young trees from insect damage.

Intensive management practices, more access roads, and improvements in harvesting and processing forest products have made it possible and profitable to control many forest pests. Finally, but certainly not the least important, is the fact that satisfactory controls have been developed for some of the most important forest insects. For example, it is now possible to recognize, and remove through selective cutting those trees which are susceptible to one of the most destructive western bark beetles. Also, many defoliators can now be controlled over large forested areas by aerial application of some of the recently developed organic insecticides. Other of these compounds are being used successfully to control numerous additional noxious forest insects.

An increasing number of forest owners are seeking aid in coping with their insect problems. They are no longer content to let the "bugs" dictate their management plans. They no longer willingly sacrifice a portion of their cash crop to these marauders. Indeed, forest owners are desirous of protecting their plantations and natural stands from insects throughout the growing years until they are harvested.

Forest managers turn naturally to the forest entomologist for advice and information as to the methods of dealing with their particular insect problems. Hence the demand for foresters with specialized training in entomology is increasing steadily. Only in recent years have a small number of timber companies begun the practice of employing full-time entomologists. Others are currently following this lead and many more will undoubtedly do so during the next few years.

For many years only one of the forty-eight states employed a practicing forest entomologist. Within the past five years, six additional states have

followed suit. Still others are contemplating similar appointments in the near future.

There are perhaps not more than one hundred and twenty-five full-time professional forest entomologists in the country today. Currently, the Federal Government is the largest single employer of men in this profession; followed by the states and private industry in that order. There will be need for many more within the next five to ten years to cope with the forest insect problems. Greatest increase will undoubtedly come in the states and private industry, although additional personnel will also be needed in the Federal work.

Adequate protection of the forests of the country from the ravages of destructive forest insects is indeed a huge task. In order to succeed in this undertaking, forest entomological research, surveys, and control will have to be greatly strengthened. The job is too large for any single organization. In order to succeed, it will require the joint efforts of all interested individuals and the employment of many more technically trained forest entomologists by private industry, the states, and the Federal Government.

I have attempted to outline the job which lies ahead in meeting the forest insect problem and to indicate the number of men who might be required to do it. Unfortunately, no one can accurately predict the speed with which either private industry groups or any of the governmental organizations will move to reduce timber losses caused by insects. There is ample evidence, however, to indicate that the opportunities in forest entomology are currently very good. Furthermore, it would appear that this situation will probably continue over the next several years.

## The Importance of Genetics in Forestry

By JOE HANSON

In his discussion of the basis of individual variation, Stebbins (1950) states: "The variation seen between the individual of any population is based on three factors: environmental modification, genetic recombination, and mutation. Experiments have shown that each genotype has its own genetically determined degree of modification or plasticity". In other words, the genotype determines the range of effects the environment can have on the individual. Thus environment may have much phenotypic effect or none depending on the genotype of the individual.

Agronomists and horticulturists have long been taking advantage of the knowledge that plant characters are heritable. Through selective breeding old strains of economically important plants have been improved and new strains have been developed with the desirable traits included. There is certainly reason to believe the same could be done with our forest tree species.

The foresters of this country are just beginning to become aware of the important role applied genetics can play in a present day forest management program. Until the present time, the prevailing practice in forest harvesting has been that of "creaming" the stands—cutting all the best trees and leaving only culls if anything at all. As a result the succeeding stands have been of decidedly poorer quality than the original

stand, and the reason is obvious. No agronomist or other plant breeder would even consider following this practice of leaving the poorest individuals as parents for the following generation.

This is not the only practice in forestry in which the facts of heredity are ignored. In the South alone 200 million seedlings are planted annually; enough to restock 200,000 acres of forest land. For the most part the seeds are collected where they can be most easily acquired without the least thought given as to whether or not they are from vigorous, high quality, disease resistant strains. With the annually increasing demand for planting stock, there is reason for the foresters of the country to realize the importance of a forest tree breeding program designed to produce plantation stock of superior quality in all respects. Judging from the success obtained in selective breeding of agricultural and horticultural plants, there is no reason why one could not expect improved seedling stock to at least double wood production from plantation planting, not to mention increased quality and reduced seedling mortality.

A number of studies already made with forest trees show the great contribution genetics has to make for improving our forests.

Sherry (1947) has shown that both desirable and undesirable characteristics of Monterey pine (*Pinus radiata*) mother trees grown in South Africa may be passed on to their offspring. Seed was collected from 14 parent trees which exhibited marked characteristics in regard to vigor, branch thickness, length of internodes, stem form, and crown form. At seven years of age, the progenies, consisting of about 40 trees from each parent tree, were measured and scored for morphological characteristics. Data from two of the progeny groups will serve to illustrate the type of results obtained from the plantation. One mother tree was selected for high vigor, small branches, relatively short internodes, straight stem, and narrow crown. The progeny showed 85 percent with small branches, 91 percent with short internodes, 96 percent with straight stems, and 47 percent with narrow crowns. Another rapid growing mother tree that had small branches, long internodes, crooked stem, and wide crown gave progeny 73 percent of which had small stems, and 55 percent wide crowns. Generally, a surprisingly high percentage of trees—these progenies resembled the parent material—characteristics score, suggesting that these characters are genetically controlled.

Selection of trees superior in latex production has been an important part in the development of improved rubber-producing trees of *Hevea*. Through a program of selection and controlled breeding with use of bud-grafted superior types, the best stock is expected to produce 2,00 kg. per hectare as compared with a yield of only 460 - 640 kg. per hectare of the unselected plantations in 1926.

Toole and Hepting found that open-pollinated seed of mimosa trees resistant to mimosa wilt produced trees about half of which were also resistant to the disease. Only very few resistant seedlings were found when seed was collected without regard to resistance in the parent.

Forest genetics is still in its infancy. As has been shown in the above examples, the good that can be done in the field of forestry by developing this science cannot be overestimated.



# Random Reflections Regarding Research

By T. E. MAKI

The embryo forester, flushed with preparations for a career in the woods, doubtless finds little time and less inclination to ponder and meditate about forestry research. The nature and significance of it, at this stage, may escape him entirely, and most likely does. For hasn't he embarked on forest management because he craved for the full, free life of the out-of-doors, —the hunting, the fishing, the trapping, the ridding on horse-back, the furnishing of tourist information, and all that? And research? Poof! That's strictly for the birds! To the out-door man the very word, RE-SEARCH (and he'll accent it loudly on the first syllable) brings up visions of laboratories, filled with complex-looking instruments, glass-ware of all kinds, including the archaic alembic, and always, of course, with a few white-frocked, myopic figures peering intently into test tubes, microscopes, or both.

Now research in the field of forest management may seldom get started in the environment traditionally envisioned and circumscribed for the laboratory. More often, the forester's laboratory is the logging chance, the abandoned, eroding field, the watershed, the nursery bed, the drainage ditch, or a recent burn. To do high class research doesn't necessarily need marble-halled structures, with terrazo-floored rooms, housing complicated equipment,—mysterious, awesome, spotless. It can be done in any environment related to trees, forests, land, and water. And it lies within the province of all who have eyes to see, ears to hear, and, above all, minds to think. Literally and yet mologically, RESEARCH means to LOOK AGAIN. Wherever men have *looked again* and sufficiently analyzed and synthesized what they observed or measured, and thus found better ways of attaining old ends or developing new ones, there we have seen researchers in action in the truest and best sense of the word.

Research, whether in forest management or in other fields, is not a fixture but a dynamic process. We may think of it as a means of opening new frontiers. But we should consider it equally as a means of avoiding that very dangerous practice of regarding the ACCEPTED as the ULTIMATE. Research is part discovery and part simplification. Ancient man kindled his fire with friction of wood against wood. Any Freshman forester, who has had the good fortune of being well-trained as a Boy Scout, can readily prove that modern man can do this too. Ancient man discovered fire, probably quite by accident, and used his mind to harness this fortuitous event for his own well-being. It took a lot of research to simplify the ancient method of kindling fires. The result was a match, — a tiny stick or a strip of cardboard, with a dab of chemicals at one end. Yet this lowly match has spawned a world-wide industry, and fire by friction as practiced by ancient man died in the competition. Simplification can be as much a sign of progress as is discovery.

Research in forest management has as its ultimate task or objective the formulation and building of a solid base of technical knowledge for the efficient use of forest lands. The future will witness much more intensive

use of forest land than has yet been made. Even under the relatively extensive management practices of today, there is already much over-extrapolation from a meager base of technical knowledge because of the rapid expansion of forestry activities. In the future as in the past, contrary to popular notions, the dangers and the heavy losses will stem not from duplication of research effort but from extrapolation.

Research in forest management is a young science. Scarcely any forestry literature, worthy of note, dates back much over 100 years, and in our own country, not much over 50 years. In this relatively brief time, we have amassed a great deal of useful information, but much of it has been of an empiric nature, with consequent local applicability. We have a real need now to begin rapid broadening of the base of knowledge by striking out into less explored areas and more fundamental fields like soils, physiology, genetics, water relationships, and the like. We need to refine and simplify our knowledge and free it of the clutter of "folklore" and "general impressions." For it still holds as Sir Francis Galton once stated, that: "General impressions are never to be trusted. Unfortunately when they are of long standing they become fixed rules of life, and assume a prescriptive right never to be questioned. . . . Men not accustomed to original inquiry . . . cannot endure the thought of subjecting their sacred impressions to cold-blooded verification. But it is the triumph of scientific men to rise SUPERIOR to such superstitions, to desire tests by which the value of beliefs may be ascertained, and to feel sufficiently MASTERS of themselves to cast contemptuously aside whatever may be found untrue."

In the future task of discovery and simplification in forest management, there will be need for new, young blood; for men with eyes to see and "steel-trap" minds to think; for scientific men with mastery to rise "superior to superstitions." Nothing but the best in ability and imagination will suffice to develop the most efficient practices on every acre of forest land. The embryo forester who hasn't given the field of forestry research much thought, might profitably think seriously about research in relation to his own professional aspirations. If he feels he has the aptitude, he would gain by starting early to lay a firm foundation for a research career. It's not all drudgery. It can be rewarding too, at least in intangible ways. As Aristotle put it years ago: "Search for truth is in one way hard, and in another way easy; for it is evident that no one can master it fully, nor miss it wholly. But each adds a little to our knowledge of Nature; and from all the facts assembled, there arises a certain grandeur."

## A Glimpse of Tarheelia

By S. L. TISDALE

The road from Manteo to Murphy covers a lot of territory and a passel of mighty pretty scenery. A traveler making this trip might be intrigued by the changes both in terrain and vegetation. But what the casual observer probably won't notice are the changes in the soil as he travels from east to west.

Most people take the soil for granted. They never bother to notice the pronounced differences it exhibits from one area to another. Few even

realize that these differences exist and fewer still the importance that they hold for man.

But let's take a look at the soil as an object of just plain curiosity rather than as something for man's use. And North Carolina offers a pretty good opportunity to get an idea of the wide range of soil types one may encounter.

The soil is generally considered to be the result of about five factors. These are parent material, climate, vegetation, relief, and time. When these five factors occur in any one of an almost unlimited number of possible combinations, a soil with certain properties results. Soils may exhibit a wide range of colors; they may vary in texture, a term used to describe the amount of sand, silt, and clay present; and they may vary in their internal make-up. When one reflects a moment on the range of conditions that make up a climate, from hot and humid to cold and arid conditions; or the range in type of parent materials, from loose unconsolidated sediments to basic igneous rocks; or the range in relief from flat, low lying areas to steeply sloping mountain sides - when one considers all of the combinations of all the gradations in the factors which make up a soil, the number of possible soil types is seen to be large indeed.

Now in North Carolina there is a wide range of parent materials, climate, relief, and vegetation. So let's see how the soils vary as we start at Manteo and end up in Murphy, so to speak.

North Carolina is roughly divided into three physiographic regions. The eastern third of the state is called the coastal plain and the soils in this area are largely formed from marine deposited sediments. The central third of the state is termed the Piedmont Plateau and the soils in this area are formed from a wide range of igneous, sedimentary, and metamorphic rocks. The western third of the state is termed the mountain region and metamorphic rocks make up most of the parent materials in this region.

In the eastern coastal plain of North Carolina there are large areas of black soils called mucks and peats. These soils are either organic-mineral mixtures, the mucks, or they are entirely composed of partially decayed organic matter, the peats. Such soils are formed as a result of the annual accumulation of dead vegetation which is prevented from decomposing because of a high water table. They are quite porous. When drained, they shrink quite a bit and will burn if ignited.

Travelling westward one moves into regions of somewhat better drainage. The soils in this area are still frequently poorly drained, but they contain larger amounts of mineral matter - more sand and silt, so to speak. The somewhat poorly drained conditions cause an accumulation of organic matter. If one were to examine the profile of these soils he would find that they range in color from grey to mixtures of grey and yellow or red. This combination of greys with yellows and reds is termed mottling and is almost always associated with somewhat poorly drained conditions.

Almost all of the soils of the middle and lower coastal plain are at least somewhat poorly drained. But as one moves ever westward, he passes into a region of gently rolling topography and well-drained sandy soils. Here the sub-soil colors are light yellow, red, and orange. These bright colors are caused by conditions of good drainage, and the pigment itself is due to the presence of variously hydrated oxides of iron.

These brightly colored sandy soils are found in the upper coastal plain region of the state. All soils in the entire of the coastal plain are formed from what the geologist calls unconsolidated beds of marine-deposited sands, clays, and mixtures of sands, clays, and silts.

Before leaving the coastal plain, lets take a swing down through the sandhills area. Here's where North Carolina's peach crop is largely grown. The soils in this area are mostly deep sands and are excessively drained. Because of these two conditions they are classed as regosols, as a soils man would say. This term means that the soils do not exhibit well developed profile characteristics such as zones of removal and zones of accumulation.

We now leave the coastal plain, that region which was once under the Atlantic Ocean, and push on into the Piedmont area. While much of the coastal plain area was gently sloping to level, land in the Piedmont is generally quite rolling. As a result, it is more severely eroded and brightly colored subsoils are everywhere apparent.

Piedmont soils are formed from a number of types of parent materials. Just west of the coastal plain, for example, is an area of acid crystalline rocks which give rise to soils brilliantly colored with red and yellow. And a little farther west one moves into soils formed from sandstones and mudstones that were deposited in the Triassic period. These soils range from sandy clay loams to clays in the subsoil and in color from a bright yellow to a striking reddish purple.

Running in a northeasterly-southwesterly direction through the central section of the piedmont area is a group of soils formed from slates. These soils, known as the slate-belt soils, are silts and silt loams in texture and are quite brilliantly colored ranging from light grey and yellow to a bright red.

Farther west one moves into an area in which the soils are formed from dark fine-grained basic igneous rocks. These soils are high in their content of clay and are a rich chocolate red in color. They are deep and mellow and make up some of the best alfalfa land in the state.

Thus far on our trip through North Carolina the climate has remained essentially the same being that normally expected in a humid, warm temperate zone. The *differences* in the soils, and they have been marked, indeed, have been the result of changes in the materials from which the soils were formed and to changes in the topography, or relief of the land.

But climate, and the vegetation which is so closely allied with climate, is a powerful agent in the formation of a soil. The *similarity* in the appearance of soils of the Piedmont and the well-drained soils of the coastal plain is the result of the rainfall, vegetation, and temperature. The warm to hot temperatures particularly have contributed to the bright red colors that are so prominent in these areas. These colors continue on into the soils of the foot-hill region of the state—that area between the mountains and the piedmont. The soils in this area occur on quite sloping topography and in some cases literally glisten in the sunlight because of the large amount of mica they contain. The vegetation begins to change, too, with graceful white pines creeping in here and there.

But when one gets into the mountain area of North Carolina, the scene changes almost abruptly. The high elevations and the cool temperatures

cause a change in vegetation. Firs and balsams replace the oak and loblolly of the warmer regions. And these changes in vegetation and temperature are accompanied by marked differences in the soil, too. As one starts the climb up to the higher reaches, he begins to leave the brilliant reds and yellows. The colors become more subdued. Browns begin to creep in and then grey-browns. Soon one sees no more of the brilliant hues that marked the earlier part of the trip. The land is covered with trees and the forest floor with a thick mat of loose leaf litter. As one gets higher and the temperature cooler, the grey soils turn to black. Well isn't this where we started? The soils of the coastal plain were black, too - and usually only organic matter or humus causes this color. In the mountains the organic matter accumulates because the cool temperatures slow down the microorganisms that normally decompose this material. The activity of these organisms is slowed down in the coastal, too, but in this case because oxygen is excluded due to a high water table.

So, we have come from the east to the west of Tarheelia. Our observations of soil properties have been limited to topography and color because they're the features most apparent to the casual observer. But the soils differ in many more respects that we can't discuss here. So the next time you take a trip from Manteo to Murphy or from Raleigh to Newfound Gap or from anywhere to anywhere, for that matter, notice the soil. If you do, you will see an interesting story unfold right before your eyes.

## Fungus Diseases, A Threat To Southern Forests

By ARTHUR KELMAN

From the moment that a delicate seedling starts to push through the soil to the time that the mature tree falls to the lumberman's saw or ax, many diverse diseases may injure or even destroy a growing tree. Although viruses, bacteria, and nematodes as well as certain adverse environmental conditions may cause serious tree maladies, the major disease problems now confronting the forester in the south are those caused by fungus parasites.

Few of the pathogens now prevalent in the south rank in destructiveness with the chestnut blight fungus, an imigrant from Asia that swept down the Appalachians in the twenties. The highly virulent blight fungus destroyed in a few decades the extensive stands of the valuable American chestnut, a species that had evolved over untold hundreds of centuries. The tremendous economic loss that resulted from the amazingly rapid spread of chestnut blight is an outstanding example of the destructive potential of a tree pathogen introduced into a new environment. It is fortunate that there are no other fungus pests now affecting southern forests that are comparable to the chestnut blight fungus in rate of spread or damaging effects. However, there is no reason to believe that other tree parasites may not be introduced to the south and constant vigilance against such introductions needs to be maintained.

Most diseases affecting southern forests are less spectacular and as a

result their effects are either overlooked or minimized. In this category are the numerous fungus pathogens that attack tree foliage. Although spots, mildews, and rusts are common on both hardwoods and conifers, damage to conifers may be more severe. The brown spot fungus that attacks the foliage of longleaf pine usually causes a decline in growth rate rather than rapid death. However, affected trees may remain in the grass stage for many years and never make normal growth unless the disease is controlled.

Stem cankers and gall rusts are prevalent on many southern trees. Perhaps the most important of these is fusiform rust. If pine seedlings are infected by the fusiform rust fungus in the nursery, mortality following planting may be extremely high. Older trees affected by fusiform rust are subject to windthrow or eventual death if the stem is girdled.

A number of wilt diseases are at present affecting southern trees, including *Verticillium* wilt of maple, mimosa wilt, persimmon wilt and oak wilt; of these the oak wilt disease presents the most serious economic threat to forest resources. Fortunately the rate of spread of oak wilt in comparison with chestnut blight has been relatively slow in West Virginia, Tennessee, Kentucky, and North Carolina. It may be virtually impossible to eradicate the oak wilt fungus and difficult to prevent its further invasion of the south. This is a disease with which southern foresters will have to live, although it is hoped that the losses can be kept to a minimum as adequate controls are devised.

Although it is true that the spot, rust, canker, gall, and wilt fungi takes a heavy toll of southern forest trees, controls are being developed and improved for many of these and losses may be reduced in the future. In addition decay hazards in standing timber are lessening due to the marked decrease in stands of mature or overmature trees in the south. However, there is mounting evidence that other types of diseases particularly root diseases will become increasingly important. The major disease affecting pines in the south at present, littleleaf disease of shortleaf pine, is certainly an example of a root disease that has increased in severity during the past 50 years. Forest pathologists in the Forest Service estimate that the littleleaf disease is causing at present significant losses on approximately 5 million acres.

Improved nursery procedures and planting methods as well as care in selection of site have had favorable results in the initial growth of many plantations. Yet, there is little or no data on the ultimate future of these extensive plantings in the south. The limited information now available for plantations more than 45 years of age indicates that root decay and butt rot may prevent many of these stands from reaching maturity.

A small number of men, mainly forest pathologists in the Forest Service, are attempting to find the methods of control that will be practicable and effective in reducing losses due to fungus as well as other diseases. In terms of the high stakes involved and prospects of increasing disease problems in the south, the need is apparent for an intensification of research efforts and a significant increase in funds and personnel. Foresters will require this research assistance in order to cope adequately with these fungus enemies of Southern forests.

# CO-OPERATIVE RESEARCH

## Hardwood Utilization

By J. S. Bethel

One of the major forestry problems in southeastern United States is that of finding profitable uses for the hardwood species of the piedmont area. Hardwood species are among the most valuable components of the southern forest and many of the southern wood product industries exist because fine hardwoods are available in the South. The furniture, veneer, plywood, hardwood lumber and dimension stock manufacturing plants are typical of industrial facilities that exist in this region only because of presence of fine hardwoods. In general, the high quality hardwoods that are in great demand grow in the lowlands of the coastal plain, the deep river swamps that traverse the piedmont and the coves of the mountain area. In many of the higher, dryer sites in the piedmont, hardwoods also grow. Here they come up as an understory on pine land or they occupy very poor sites. These hardwoods may be, and frequently are, the same species as those considered valuable when growing in the swamps and coves, but here they have very little value. Growth is slow, form is poor, and too frequently the stand contains a high percentage of species that are in little demand.

Recently there has developed in the South a great interest in developing profitable uses for these hardwoods. The U. S. Forest Service, through its Southeastern Forest Experiment Station, has undertaken a long-range research program designed to develop the information needed to permit wise and economical utilization of low quality hardwoods. As a part of this program, the Forest Service is providing financial support for part of the hardwood research program of the Wood Products Laboratory at the School of Forestry. Currently five research projects in hardwood utilization are being undertaken:

1. *Hardwood Veneer Log Grades.* A long-term project is being conducted which is designed to ultimately develop rational veneer log grades for southern hardwood species.

2. *Comparison of Sawmill and Short Log Bolter for Producing Poplar Dimension Stock.* A study is being made to determine whether low quality poplar can be converted directly to dimension stock at lower cost and with better yield on a short log bolter mill than by following the conventional process of first manufacturing factory lumber on a sawmill and then converting it into dimension stock in a second cut-up operation.

3. *Development of a Patched Stripcore.* A continuing evaluation is being made of the opportunities for improving yield of lumber core stock from low quality material through the use of a patched strip core technique.

4. *Techniques for Controlling Grade of Hardwood Lumber Produced on Small Sawmills.* The studies begun here on the application of statistical quality control techniques to small sawmill operations are being con-

tinued with emphasis on the development of statistical methods for evaluating grade recovery.

5. *Production of Pallets from Hardwoods.* The increased use of mechanical materials handling techniques in industry has created a tremendous demand for wooden pallets. To date these have been largely produced from pine. A study is being undertaken to evaluate hardwoods as pallet materials.

The unique facilities of the Wood Products Laboratory for research have been recognized by the Forest Service in the establishment of its hardwood utilization research program. There is every indication that the Forest Service will wish to continue to include the hardwood utilization research program of the School of Forestry in its long-range program for advancing the use of low quality hardwoods. This combination of research facilities constitutes a happy marriage and promises to be fruitful in its production of research results.

## Joint Project for Determining Justifiable Expenditures and Point of Diminishing Returns for Forest Fire Control in the Tennessee Valley Counties of North Carolina

By H. PLOTKIN

The major objective of this project is to determine justifiable expenditures for fire control for the Tennessee Valley Counties of North Carolina. This area is composed of approximately 2,710,000 acres of forest land in Western North Carolina. The specific objectives of this project are:

1. Establishment of an allowable burn for each county within the project area.
2. The determination of justifiable expenditures.
3. To aid fire control administration officials in explaining and justifying their fiscal requirements.
4. The development and the testing of a practical method for determining allowable burn and justifiable expenditures.

Participating in this project are North Carolina Division of Forestry, Tennessee Valley Authority, and North Carolina State College.

June 30, 1952 marked the close of a successful fire control project between T.V.A. and the N. C. Division of Forestry during which the average annual burn was 0.22%. The project was for a five year period. The average annual burn for the five years preceeding the project was 1.6%. Total fire control funds for the pre-project period was 2.5 cents per acre per year. Fire control funds during the project amounted to 7 cents per acre per year.



At present, the N. C. Division of Forestry maintains a strong and efficient fire control organization in the project area. Thus, the determination of justifiable expenditures is now deemed appropriate.

The procedure to be followed requires the study and application of basic factors of fire control, forest economics and forest influences. Specifically, the following steps are indicated.

1. Determine the relative importance or values of forest land as they relate to the degree of protection needed. Two values of the forest that are under consideration are timber and watershed protection values of the forest. Then using these values, determine the allowable burn.

2. Determine the relative importance of various factors that affect fire control action by a given fire control organization. The size of the protection load can then be developed.

3. Determine justifiable expenditures, in relation to allowable burn and protection load.

The phase of the project that is being developed in conjunction with the School of Forestry is the determination of the water protection values of the forest.

## New Scholarship Harry Lee Carter Scholarship

The Harry Lee Carter Talent For Service Scholarship of \$2,000 will be awarded this spring to a high school graduate who is enrolling in the School of Forestry at North Carolina State College. This scholarship is unrestricted as to state lines or curricula within the school. It will pay the recipient \$500 for each of four years, provided satisfactory levels of achievement are maintained.

This scholarship was established in the School of Forestry by Mr. Harry Lee Carter, Attorney, Rancher and Oilman of Jacksonville and Tyler, Texas. Mr. Carter has long been interested in improved forest management and has practiced forestry extensively in both Tennessee and Texas. Mr. Carter, a native Virginian, holds an undergraduate degree from William and Mary and the Masters and Law degrees from the University of Virginia.

## E. F. Conger Scholarship

The E. F. Conger Scholarship, valued at \$500, will be awarded this spring to a high school graduate enrolling in the School of Forestry. High school graduates from North Carolina, South Carolina, Virginia and Tennessee are eligible.

This scholarship was set up in the School of Forestry at State College by Mr. Conger in recognition of Dr. C. A. Schenck and the Biltmore School of Forestry. Dr. Schenck, now 86 years old, was Director of the Biltmore School which was the first forestry school in the Western Hemisphere. Mr. Conger is a graduate of the Biltmore School and an active member of the Advisory Committee of the School of Forestry.

## Colin G. Spencer Scholarship

The School of Forestry at North Carolina State College is now accepting applications for the Colin G. Spencer Scholarship, valued at \$200. The scholarship will be awarded by the faculty of the School of Forestry this spring and preference will be given to high school graduates from Moore County or from counties adjacent to Moore in accordance with the desires expressed by the donor.

The scholarship was created at the college by Colin G. Spencer of Carthage, long-time forestry leader of the State and former president of the N. C. Forestry Assn. Spencer, who was awarded an honorary degree of doctor of forestry by N. C. State in 1951, is currently serving as president of the N. C. Forestry Foundation, Inc., which is dedicated to the advancement of the college's School of Forestry.

## Scott Russ Scholarship

Scott Russ of the Chadbourn Veneer Company in Chadbourn has established a \$200 scholarship in the School of Forestry at North Carolina State College. The scholarship is open to all high school graduates who may wish to enroll in the School of Forestry.

The Scott Russ scholarship was won last year by Donald M. Thompson of Gastonia, an honor student at the college this year.

Mr. Russ, the scholarship donor, is a member of the Advisory Committee of the State College School of Forestry.

## Darlington Veneer Company Scholarship

Mr. Jack Ramsey announced that the executives of the Darlington Veneer Company, Darlington, S. C. had voted to establish a \$500.00 scholarship in the School of Forestry at North Carolina State College. This scholarship is open to high school graduates from the states of South Carolina, North Carolina, Tennessee, and Virginia.

Mr. Ramsey is an active member of the Advisory Committee of the School of Forestry and several executives of the firm are alumni or close friends of the school.

TIMBER CRUISES

GROWTH ANALYSIS

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FOREST TYPE MAPS

DAMAGE INVESTIGATIONS

# ALUMNI



# Annual Message to the Alumni

A. B. HAFFER, *Pres.*; J. C. BLAKENEY, *Vice Pres.*; G. K. SLOCUM, *Sec'y-Treas.*

Every year there is news for alumni concerning the alma mater. The school has grown, is growing and will grow because of you or in spite of you. The older ones of us are literally and figuratively lost when we go back.

At the Columbia Section meeting several of us discussed the school and without criticizing anyone, we agreed that fate favored the school with the proper administration at the right time. Who could have done better in starting a forest school than Dr. Hofmann. Who could do better in the progress of administering a school with over a million dollars value than Dick Preston. Some of the old land marks are still present (Slocum, for instance, and it wouldn't be the same school without him). And new land marks are being added almost daily. Acquaint yourself with the new pulp and paper project. This is an expensive and impressive addition. Dr. Dick has gotten the outstanding faculty of the country. Roy Carter has a woodshop worth \$25,000. If I could play with that, my family would see me only when I got hungry.

The last news I heard was that the son of one of the alumni may possibly enter forestry at State next year. The old man was my poker playing roommate. Hope the boy does as well in his studies as his old man, but then I don't think Bill Cooper could make the grades now that he made then. The faculty looks a little more foreboding.

Here are the predictions (Drew Pearson Hafer): With the growth of the school and the numerous openings available in forestry, the school is fast outgrowing the east campus. It is suggested that the entire school of forestry will move to West Blvd. where the sawmill, drykilns, treating plant, pulp and paper machinery, wood shop and all the other equipment can be in proximity to the classrooms.

Here is what is expected of us as alumni: Get good students for the school. You can trust the school to put out men that will give you a run for your own job. In a few years, Bill Cooper may be asking his son for a job. The courses haven't gotten any easier, I have been told, and only above average high school graduates are wanted. The school has some "flip charts" that make selling N. C. State College of Forestry a rather simple chore. Why not borrow one and give a 10 minute program in your high school assembly. You may pick up some good prospects. A scout troop is another good prospecting field. A few Eagle Scouts can't be too bad for students of forestry.

Even though you may have graduated from a young school without all the new accessories, so far as the public is concerned you are a graduate of the best forestry school in the country and who can refute it.

Alvin B. Hafer

# Report of the Secretary-Treasurer

The 1955 annual meeting of the Forestry Alumni Club was held in Columbia, S. C. on January 21, 1955. A. B. Hafer presided and W. D. Miller acted as secretary. There were thirty-four members present.

Dean Preston reported on recent developments at the School of Forestry. Among these developments were the additions of Professors Barefoot and Hitchings to the staff, the progress made toward construction of the Pulp and Paper laboratory, and Dr. Maki's invitation to lecture in Finland.

James Cartwright, '31 was elected president and G. K. Slocum, '31 as secretary-treasurer.

Mr. Cartwright made a short speech.

## TREASURER'S REPORT 1953-54

Income		Expense	
1 member @ \$100	\$100.00	200 copies of Pinetum	\$250.00
1 member @ 22.00	22.00	Alumni letters, Postage	18.00
1 member @ 20.00	20.00	Post cards & stamps	4.84
1 member @ 15.00	15.00	Mailing Pinetum	17.60
5 members @ 10.00	50.00	Envelopes	7.35
2 members @ 7.00	14.00		
26 members @ 5.00	130.00		\$297.79
4 members @ 4.00	16.00		
5 members @ 3.00	15.00		
152 members @ 2.00	304.00		
2 members @ 1.00	2.00		
	<hr/>		
	\$688.00		

The cash balance of \$390.21 has been deposited in the Hofmann Loan Fund as directed by the Constitution.

G. K. Slocum

## TOP HAT GRILL AND TAVERN

2504 Hillsboro St. Just across from Patterson Hall

**OPEN FOR BUSINESS**

You are cordially invited to come in and enjoy the delightful Top Hat Grill-Tavern.

If you are looking for Good Food and Pleasant Surroundings visit us. You will find sandwiches and short orders a specialty.

**\$5.50 MEAL TICKET FOR \$5.00  
GOOD FOR MEALS AND DRINKS**

# Alumni News

1930

GRAEBER, R. W., Forest Consultant (self-employed), Raleigh, N. C.

HOWARD, H. E., Administrative Officer (Personnel), U. S. Forest Service, Decatur, Georgia.  
"Still at the same place. No complaints. Our oldest son is a Senior in Forestry at Georgia. He's a forester for Xi Sigma Pi so must be a better man than his dad.

Our youngest son, Hugh, is a freshman at Vanderbilt. He's interested in astronomy, meteorology and space travel.

Our daughter, Dee Ann, is a sophomore in high school."

LENHART, D. Y., General Manager, Woodlands Dept., West Virginia Pulp & Paper Co.

MORRIS, DONALD J., Supervisor, N. C. National Forests, U. S. Forest Service, Asheville, N. C.

"George, while your annual sprightly letter is a reminder that another year has rolled around, it is, nevertheless, welcome and much appreciated. Speaking of passing time, I now have a daughter just up the street at Meredith and a boy big enough to go hunting with me. Several State boys were with us this summer and we had fine reports on each. I really believe that the race is improving." Accretions: One beautiful English setter pup and one dumb parakeet."

PIERCE, ROBERT L., Assistant District Forester, Penna. Dept. of Forests & Waters, Stroudsburg, Pa.

"As you can see by the title, am still at the same stand and still doing business, but for how long do not know as things have changed somewhat up here. I sure was flabbergasted that evening when you and Tom Evans called me up by telephone from Asheville. Sure was glad to talk to you and Thelma. I suppose Tom & Tinny told you that they called me a few weeks before when Howard was there. It made me a little homesick to see the old gang. Hope I can get down that way in the near future to see some of the gang. Have had snow up here in our district. In fact, about one foot in the mountains, so you can see winter is on its way in up here.

Best wishes to you and Thelma and any of the others you might see."

1931

ARTMAN, J. O., Staff Forester, Tennessee Valley Authority, Norris, Tennessee.

"Still at the same old stand. Nothing new here. Thanks for the 'regards' delivered via Paul Lane, George. The same to you and yours."

CARTWRIGHT, JAMES B., District Ranger, U. S. Forest Service, Newberry, S. C.

"I seem to have settled down here in Newberry, S. C. It is seven years since I moved here. Five years ago I bought a home. My daughter, Clarissa, is in the seventh grade.

Regards to all of the old gang."

LOUGHEAD, HARVEY J., Consulting Forester (self-employed), Asheville, N. C.

1932

COOPER, WM. E., Executive Director, Virginia Forests, Inc., Richmond, 19, Va.

"Time marches on, and how! I don't think those of us who came down to N. C. State 25 years ago realized what we were starting, but when I look at the list of names by classes which appear in each Pinetum it sure adds up to something big."

KERST, JOHN J., Appraiser, Vicksburg District, C. of Engineers, Vicksburg, Mississippi.

"George: You state I can get both for \$2 but not how much for each—think my being selected is baloney (Lebanon).

Still appraising, land, timber, farms, & all. In fact, made an appraisal on home & lot and darn if the man didn't take me up on it; so me and bank are at last buying a home.

This work is very interesting and still has forestry angle to it somewhat so can say am still a forester at heart if not in work.

Chubby Warriner is with the Forest Service in Jackson, Miss., but have only seen him once the past year. Don't ask why and where time goes but it sure does. I am now going to 1st grade again, especially at night with my little girl, Sarah Priscilla.

About all I know; since you selected me for membership & Pinetum, I am selecting you to place my name on mailing list for all state publications on forestry.

Hope to see you in Memphis in '56 and maybe surprise myself by coming back thru Raleigh from Penna. one of these years."

MAXWELL, ALBERT H., Service Forester, N. C. Div. of Forestry, Morganton, N. C.

"After your forceful plea for funds, and your urgent request that all alumni stand up and be counted, I'd be the last one to let you down. Check is attached. I'll soon have another one to be counted. Son, Al, plans to enter State College next fall. He believes foresters will need more & better communications & is going into electrical engineering.

Up here where the Piedmont merges into the Blue Ridge we are still helping landowners to grow more & better timber. Come & see us sometime."

SCHAEFFER, GEORGE K., Forester (Adm.), Dist. Ranger, U. S. Forest Service, Lake City, Florida.

TILLMAN, P. W., Assistant State Forester, N. C. Department of Conservation & Development, Raleigh, N. C.

"Remarkable progress in all fields of forestry in North Carolina during past 20 years is most encouraging."

1933

BLAKENEY, JACK C., Pres., Display Fixtures, Co., Inc., Charlotte, N. C.

CROKER, THOMAS C., JR., Superintendent of Escambia Exp. Forest, Southern Forest Experiment Station, Brewton, Ala.

"We used to have a toast at N. C. State that began, "Here's to the land of the longleaf pine"—a tribute to North Carolina—Remember it? The same toast would apply to this country (South Alabama) where I am working."

HAFER, ALVIN B., Consulting Forester (Self employed), Laurinburg, N. C.

## 1934

BARKER, W. J., Extension Forester, S. C. Extension Service, Clemson, S. C.  
 CHATFIELD, E. E., Forester-Supervisor Southern Dist., Masonite Corp., Laurel, Miss.  
 CORPENING, B. H., District Forester, N. C. Division of Forestry, Asheville, N. C.  
 "\$2.00 enclosed (almost forgot)."  
 HUBE, FREDERICK H., Asst. Chief Forester, Masonite Corporation, Laurel, Miss.  
 SMITH, W. R., Chief, Utilization Service, SEFES, Asheville, N. C.

## 1935

COMFORT, CLIFFORD W., District Forest Ranger, Francis Marion National Forest, McClellanville, S. C.

DOUGLASS, OWEN R., Pulpwood Producer (self employed), Fernandina Beach, Fla.  
 "I waited a long time, perhaps too long, to get into about as rough a business as there is. Not making any money, but having a lot of fun.

I know that at one time or other you fellows come to Florida—everybody does—so how about coming to see us on your next trip. I promise not to let the dogs bite you."  
 FINDLAY, JOHN D., Asst. Chief, Branch of Game Mgt., U. S. Fish & Wildlife Service, Washington, D. C.

GARDINER, THOMAS B., Chief Classification & Organization Branch, Personnel Division, Soil Conservation Service, USDA, Arlington, Va.

"New title—more work—everything else about the same."  
 JACKSON, G. E., Consulting Forester (self employed), Washington, D. C.

"As I view it, the two best things at State College are the Forestry School and the basketball team. Both of them are winners.

Things are still going well here in eastern North Carolina. Next year I will have a daughter in college so please send a self-addressed, stamped envelope for alumni information."

KALER, BOYD, Soil Conservationist, Soil Conservation Service, Lincoln, Maine.  
 PIPPIN, JAMES A., District Forester, N. C. Dept. of Conservation & Development, Rockingham, N. C.

"I have a son since writing you last, born August 6, 1954. If any of the fellows are around Rockingham we would like to have them come by to see us."

SPRATT, J. R., Projects Manager, The Atlantic Land & Improvement Co., La Belle, Fla.  
 STINGLEY, J. M., Forestry Consultant (self employed), Crossville, Tenn.

"Have worn at least an inch of pavement off U. S. #70 during past 2 years scuttling back and forth from J'ville (where my family insists on living) and Tennessee, where I'm trying to make something to eat. Glad to see the school becoming so prominent."

WRIGHT, HARRY R., District Forest Ranger, U. S. Forest Service, Blairsville, Ga.

"I am very sorry that I did not get to see you on your trip to Chattahoochee this past summer. Fred Newham tells me that you are just a little fatter and not quite so peppy as you used to be. I do hope that the stay at the old Wayah Depot on the Nantabala took away those haggard looks of which you speak.

North Carolina State is well represented here on the Chattahoochee. Newnam, Grumbine, Al der, and myself are all proud of the accomplishments being made by our Alma Mater, and especially the Forestry School. Of course we never brag about the football team.

Come to see me next year."

## 1936

AIKEN, W. C., Work Unit Conservationist, USDA—S.C.S., Prattville, Ala.

"It sounds like you might have a forestry school at State in spite of everything. I would like to see the changes made and you could probably teach even me some forestry now. I'm still holding down the same three tasks—soil conservation, consultant for a sawmill and several large land owners and operating a farm that grows some timber and cows. Make a little out of everything but the cows. Dry weather and sinking prices beat me there.

I look forward to getting the Pinetum but it also makes me a little on the sentimental side—miss all the boys and the fun we had there. See Proutt and Walton Smith but outside of them I'm in the dark about the other alumni.

Enclosed is the two bucks. If I hadn't dropped so much on cows, I might could do better."  
 DIXON, D. C., Dixon Tire Sales, Lancaster, S. C.

NEASE, ALLEN D., Consulting Forester & Pulpwood Dealer, St. Augustine, Fla.

"Professor, I really appreciate being selected to receive the Pinetum—you can't kid me, all you want is my \$2.00. Well here it is and a little for the Hofmann fund."

## 1937

PETTIT, CHARLES C., JR., District Forester, N. C. Division of Forestry, Sylva, N. C.

"Sorry I did not know you were at Wayah this summer, would have enjoyed seeing you. Was over there Oct. 1 for a fire training school and looks like you have a nice camp. Let me know next time you are up and will try my best to get over. I may have been away when you were there. I was at Parris Island last week of July & first week of August."

VASS, JOHN S., J. Leighton Wilson Press, American Presbyterian Congo Mission, Luebo, Belgian Congo.

"While there in the States last year, we had an addition to our family, a girl born on June 9, 1954. This makes three children for us, one boy and two girls, so we now have a nice size family, don't you think?

Last August the family and I drove from Decatur, Georgia to New York in our Chevrolet station wagon and there we boarded a ship, Congo bound. To be sure, we had our station wagon put aboard, so when we reached the Congo we were able to drive from Matadi (the Congo port) to Leopoldville over a rough and rugged road. At the latter place we boarded a river boat which took us within 125 miles of our mission station which is over 1,000 miles inland from the coast.

I shall be looking forward to hearing from you before too long, so until then, I remain."

GASH, DAN, District Forester, Waecamaw Dist., International Paper Co., Wilmington, N. C.

GERLOCK, AMIL J., Real Estate Broker (self employed), Fairburn, Ga.

HOWERTON, T. M., JR., Self-employed in the forestry vocation, Madison, Fla.

"I'm sure that all the alumni is proud of the splendid progress the School of Forestry has displayed. Regards."

WHEELER, W. H., JR., Forester (self employed), Wadesboro, N. C.

#### 1938

DILLINGHAM, MAX M., Operations Foreman, Champion Paper & Fibre Co., Asheville, N. C.

"Best regards to you. Can't seem to get away from job long enough to see you. Glad to hear so much favorable news about our school."

EAKER, ROY C., Co. Supervisor, Farmers Home Adm., USDA, Monroe, N. C.

HUBBARD, JAMES B., Protection Forester, N. C. Forest Service, Raleigh, N. C.

"Nothing new."

MARSHBURN, WALTER J., JR., Sandhill Forestry Co., Forestry Consultant (self-employed), Rockingham, N. C.

"Married, 2 kids, Davey age 8, Sammie age 5. Bald headed and doing quite a bit of bush jumping. Sandhills section best woods working conditions in the state."

WHITMAN, J. ATWOOD, Consulting Forester (self-employed), Glendon, N. C.

#### 1939

FRYE, JOE T., JR., President & Gen. Mgr., Athens Bed Co., Inc., Athens, Tenn.

"The next time any of you class mates are in East Tennessee would appreciate a visit."

HARTLEY, HARVEY J., Commander 3663 BMTJ, U. S. Air Force.

"I am still trying to make armen out of the little mothers' darlings from the N.E. U.S.A. I have right now 2,800 little green monsters in this one outfit. Were it not for a good healthy slug of extract of fermented corn now and then, I would blow my stack. Have been here 3 years, 3 months and one day. My number is on the board for a long trip over a patch of rather salty water, East or West, who knows. Bob got into this mess about the same time I did. Where is he now? I am going to stay in and splash around in the pond awhile.

Have got in my share of fishing and hunting while here so no complaints on that score. Family score stands at one wife and one dog. You never met the dog but she is a dilley—German Police—Chow with all the questionable features of each. When I let her out all the Cokers, etc. head for home. They are getting good at it by now for most of them make it. Such antics make us very popular. Regards to all. Could you spare a newy letter?"

HUGHES, D. PERRY, Owner of Hughes Market, Colerain, N. C.

JOLLAY, TED M., District Forester, West Virginia Pulp & Paper Co., Winnsboro, S. C.

"No nose—it's been held to the grindstone too long—can't even get away to a meeting to see anybody."

MARTIN, HARTWELL C., Superintendent Timber Preserving Plant, Norfolk & Western Railway Co., Radford, Va.

"About all the news I have is the fact that timber preserving plants will explode and burn, as you may have noticed from your newspaper in Nov. of last year.

Best wishes to everyone."

PAGE, COLE L., Consulting Forester (self-employed), White Pond, S. C.

"Thanks for your news letter. I'm pretty busy getting ready for the planting season. Keep up the good work."

SMITH, EDWARD W., III, Deputy State Forester, State of Idaho, Boise, Idaho.

"I have just completed my second field season here in South Idaho and I like my new job very well. I must say that the Ponderosa Pine with its enemies such as the pine butterfly and needle cast are quite new to me after my seven years in the White Pine of NW Montana & N. Idaho where the blister rust & pole blight were our chief problems.

We have had a busy year of timber sales. The lumber strike on the West coast brought quite a boom to the mixed market—Douglas Fir, Grand Fir & Engelmann Spruce. But oddly enough, the sale of mixed has held up though the coast strike was settled early in Sept.

Had the easiest fire season in years—thanks to June rains and again in Sept.

I can't say I'll ever be much of an administrator. One-two days a week is all I ever stay in the office even in the winter. Like to get out on snow shoes to cruise, run lines, & mark timber. From May-December over 90 per cent of my time is spent in the field and that's the way I like it.

My work keeps me plenty busy, but I refereed football each Friday this season & plan to officiate basketball again this winter.—Helps use up my excess energy.

I am really proud of the growing School of Forestry and of its rapid progress. Have a tough time getting anyone out here to admit there is any forestry school in the nation except the University of Idaho.

If any of the old gang ever get out this way, please look me up. I have plenty of real forestry I can show them."

#### 1940

BELL, J. L., Forester Appraiser, Equitable Life Assurance Society, Davidson, N. C.

"Jim is now working to Equitable and comes by Raleigh right often."

DAVIS, RICHARD E., Chief, Information & Education, Georgia Forestry Commission, Atlanta, Georgia.

"Glad to hear about and see the excellent progress the school is making. You all are to be congratulated."

DUNN, BRUCE, Partner—Dunn Bros. Lbr. Co., Clarendon, Pa.

"Been in the lumber business in this area since 1948—cutting mostly cherry, sugar maple and beech. Have two girls and one boy."

GIBBONS, WILLIAM E., Field Assistant, Wood Procurement, International Paper Co., Evergreen, Ala.

"Have three wood yards to look after. Responsible for all cruising and timber marking in connection with same. Try to keep wood dealers happy and satisfied so they will keep us supplied with wood. How about sending some of your rain to Ala. Are we ever dry!

Saw R. K. Lee in Mobile a short time ago. He looked fine and we had a good chat. With three children and Christmas coming up—\$2.00 is all I can spare."

LEE, R. K., Forester Appraiser, Equitable Life Assurance Society.

MATSON, MATHEW A., JR., (self-employed) Norfolk, Virginia.



"Still a bachelor and still in the greenhouse business. Both coming along nicely."  
NEEDHAM, J. FRANK, Staff Forester, In Charge of the Farm Forestry Program in Ohio, Ohio Department of Natural Resources, Division of Forestry, Columbus 12, Ohio.  
"Frank came in for a management short course in March. We didn't have time for much visiting, but we enjoyed what little gabbing we had time for."  
NIGRO, JOHN F., Work Unit Conservationist, U. S. Soil Conservation Service, Millbrook, New York.  
"My best regards to you and Prof. Wyman, Miller & Dr. Hofmann."  
SIMMONS, A. W., S. E. Dist. Mgr., Red Jacket Coal Corp., Greensboro, N. C.  
"Would like to see you all; if in this section, please drop by 603 Gullford Bldg., tel. 23105."

1941

CHAMBLEE, GRAHAM V., Forest Supervisor, Bladen Lake State Forest, N. C. Dept. of Cons. & Development, Elizabethtown, N. C.  
"Regards to friends, enemies, faculty and classmates. My home is always open to all."  
HARRIS, THOMAS G., Wood Manager, Halifax Paper Company, Inc., Roanoke Rapids, N. C.  
HARTMAN, FRED J., President, Cartographics, Inc., Silver Springs, Md.  
"I'm embarrassed not having kept in closer touch! Have been busy building a new mapping business here in Washington. Have same wonderful wife and three young'uns—two potential foresters and one potential forester's wife. Maybe some day I can afford to return to my first love, the woods. Still get in a little fishing on N. C. State's activities but very little travel. I do manage to keep papers, newsletters and journal. If anybody there ever gets to Washington, please stop to see me."  
McIVER, J. E., District Forester, I. P. Co., Eulonia, Ga.  
PICKET, WILLIAM C., Dir. FCX, Farm Chemical Dept., Farmers Cooperative Exchange, Inc., Statesville, N. C.  
"Please accept my apologies for not keeping up with you and the fellows. The \$5.00 won't go far these days, but maybe after I get that second million I can do a little better.  
Give my very best regards to the guys when you see them. Meanwhile, with kindest personal regards" "P.S. I gave up on the 1st million."  
WIGGINS, JOHN E., JR., Area Forester, U. S. Soil Conservation Service, Dept. of Agriculture, Knoxville, Tennessee.  
"Ofhand, I do not have any unprintable jokes, remarks, etc., to darken this space. I changed jobs in October. Am now Forester for Soil Conservation Service in Eastern and Middle Tennessee. I hope that things are going well with the school. 'Our' basketball team is doing itself proud. Enjoyed seeing you and other members of the faculty last September."

1942

DOUGLASS, R. S., Forestry Extension Specialist, N. C. Ag. Extension Service, Clinton, N. C.  
"Still trying to convince people they can make money growing trees. Sometimes I wonder—Do you really think they can, Prof?  
See you week of Dec. 13; will be there for 4 days' assn. with Geo. Smith, Contaminating, ain't it?"  
HOBBS, JAMES E., General Manager, Acme Wood Corporation, Acme, N. C.  
LEYSATH, ELWIN F., County Forester, Vermont Forest Service, Rutland, Vermont.  
"Vermont seems to be coming up in the world with three representatives of N. C. State instead of only one as heretofore (namely myself). Bob Wood, class of 1943, is located on Woodstock for the International Paper Co. and Bill Ward, class of 1933 (?) (your class, G. K.) has recently been transferred to Rutland on the Green Mt. Nat. Forest. Since my last communication of several years ago I have acquired a house and also a growing daughter, who had the misfortune to be born on Feb. 29, 1952. One birthday every four years is rough."  
PRUITT, AUSTIN A., District Forester, Champion Paper & Fibre Co., Washington, Georgia.  
"There hasn't been much change down at this end. Have added a few more acres of Georgia pines to look after, also another pointer pup (makes three in all), also a 200-acre cattle farm which utilizes all of my week ends and is locally known as the "Lazy A". By the way, all rain storms not needed in any other areas would be greatly appreciated here in Wilkes Co., Ga. It is so dry here that even the bullfrogs on Long Creek are spitting cotton.  
By the way, tell Gramp that I finally got that Winchester Model 21 bird gun. Ah, the advantages of being single.  
Hello to all of the brush jumpers of '42."

1943

ETHERIDGE, JIM, Pulpwood Dealer, N. C. Pulp Co., Plymouth, N. C.  
"When are you coming down, Prof? It's been several moons since I've seen you. Let's plan a get-together soon.  
Bear hunt planned for Oct. 16. Come down then; it should be a fine hunt.  
Fishing poor this fall. Jack Williams, Doug House and I get together about once a month. We plan to see Gramp Oct. 31 for King Mackerel fishing."  
MARTIN, J. D., Forester, Flack-Jones Lumber Co., Inc., Summerville, S. C.  
"Hear many glowing comments on the staff, facilities and results—congratulations and best regards."  
OGDEN, WILLIAM H., Forester, TVA, Norris, Tenn.  
"Including the latest addition to our family (Tim, born Sept. 13, 1954) we now have a 'full house'—3 girls and 2 boys, respectively."  
SHOUB, JOSEPH L., District Forester, International Paper Co., Hazelhurst, Ga.  
WARD, EDWARD H., Post Forester, Camp Rucker, Ala.  
"I see A. L. Setser about every three months. He is forester for the South Atlantic Division Engineers."  
WILLIAMS, JOHN F., Consulting Forester (self-employed), Windsor, N. C.  
"Best regards to you and Gramp Prof. and to all the others."

1944

HOLCOMBE, ROBERT A., Research Chemist, Timber Engineering Co., Kensington, Maryland.  
"Enjoyed having Bob Jordan here at TECO for the summer. Wish I had his money and flashy car. Glad to see Bob Hitchings of Syracuse is now with the P. and P. Department."

Give Prof. Libby and Bob my regards. Also say hello to Red Hart, A. C. Barefoot (TECO alumnae) and all the faculty."

1946

HARDEE, JOSEPH F., District Superintendent, Continental Can Co., Inc., Raleigh, N. C.  
ROBERTSON, RICHARD J., Assistant District Forester, Maryland Dept. of Forests & Parks, Pocomoke City, Md.

"On August 21, 1954 married Miss Ida Adkins of Powellville, Md. Honeymooned at Miami Beach, Fla.

Am in charge of Pocomoke State Forest on Eastern Shore of Maryland, which consists of about 12,000 acres, mostly in Loblolly Pine. Think I will stay here awhile."

SULLIVAN, EDWARD T., Assistant Professor, School of Forestry, Univ. of Minnesota, St. Paul 1, Minnesota.

1947

BARTON, W. J., Fire Control Assistant, S. C. State Commission of Forestry, Columbia, S. C.  
"Regards to all, Prof."

HARDEE, JAY H., Forester, Foreign Operations Administration, Washington, D. C.

"Sorry I missed you all in February. Please find enclosed check, secretarial work—and the letter is prepaid—let efficiency reign!

We are still raising trees, plant'n 'em, and stabilizing sand dunes and instructing.

Felicitations to all on the school's progress.

I'd appreciate you having a chat (keep it clean) with our boy Alfaro to see how he is getting along.

Special regards to Profs. Wyman, Miller and Dr. Hofmann and very special one to you and yours."

HOUSE, DOUGLAS T., Pulpwood Dealer, Louisburg, N. C.

"Same status as last year—one wife, two children and three dogs. That 'gal' Hazel messed up our bear hunt this last season. I went down but nobody else showed up. Etheridge and half dozen of his pulpwood producers and I made an effort but that bear got away. Enclosed is my check. Best regards from us to you all." "P.S. Prof., next time you go on a boat trip I want to go and take some pictures for posterity."

MAHONE, RICHARD D., Supt. of Landscaping, Colonial Williamsburg, Inc., Williamsburg, Virginia.

"Went to England and France this summer on business and pleasure. I was doing research work on English and French gardens for the company. Had an opportunity to re-visit some old haunts of years ago and saw some tell-tale signs of "The Fearless Five" (Remember them, Prof.?) We all could take some lessons from those people on utilization. Stop by and see me when you're up this way.

Sorry this is so late and sorry to have missed you all."

1948

BLACKSTOCK, CLARENCE E., Asst. District Forester, Md. Dept. of Forests and Parks, Bel Air, Md.

BOYETTE, R. C., Asst. Manager, Tarboro Division, General Plywood Corp., Tarboro, N. C.

"The Tarboro Division of General Plywood is operating at greatly reduced efficiency since the night of November 16, Resson—fire. The plant is a total loss but plans are being made to get back into business somewhere in this part of the country.

Another potential timber cruiser was added to my family on Oct. 28, name—John Richard, weight—8½ lbs., appetite—terrific, lungs—excellent."

DAYVAULT, NEVIN E., Capt. USMC, Fresno, Calif.

"I returned from Korea in May and am now an inspector-instructor with the 6th Automatic Weapons Battery, USMCR, in Fresno, Calif.

While in Korea I accepted a commission in the regular Marine Corps. You don't know how lucky you are to get these two dollars. I've bought a home since I've arrived here and this money could buy a couple of pounds of grass seed. Don't know when I'll get back to N. C. but I'll drop in to see you when I do."

ICARD, THOMAS F., Attorney, Icard & Graham, Sarasota, Florida.

"I enjoy very much receiving your dunn letter each year and at last I have been able to rake up \$2.00 which you have always emphatically insisted to be a prerequisite to the receipt of your wonderful publication, 'The Pinetum'. I am gladly forwarding to you these dear bucks and am looking forward with great pleasure to this wonderful publication.

Give all the guys my regards."

SELTZER, EDWARD N., Wilkins-Mathews Corp., Concord, N. C.

"Sorry, Prof., but that freshman I was steering your way entered V.P.I. for forestry. There's a Va. tradition and gimmick for treating out-of-state tuition of which I recently learned.

As for me—I'll be traveling Va. mostly this year.

If I'd cleaned off my bureau sooner, you would have drawn several percent on me 2 bucks by now."

SMITH, GEORGE W., Asst. Ext. Forester, N. C. Ext. Service, N. C. State College.

ZUCKERMAN, BERT M., Owner-Partner, Twin City Landscape Service, Urbana, Ill.

"The above explains recent changes in the course of my career. Trading research for a businessman's role is about as drastic a jump as I have ever made. My partner was formerly the head of the Forestry Department, Illinois Natural History Survey.

When we attain success I will visit N. C. State to fulfill my long-cherished dream—the endowing of a GKS Bowtie Fund for Destitute Frosh."

1949

ALTMAN, JAMES A., Forester, Greensboro, N. C. (Starmount Co.)

FULLER, GRADY R., Pulpwood Dealer, Hensel-Fuller Pulpwood Co., Elkin, N. C.

"Hello Prof., Glad to hear from you and learn the Forestry School is still growing and doing fine. I found out I couldn't liquidate 'Pocomo (Virginia) Pine' so I joined up with it and now whip pulp wood to Champion Paper and Fibre Co. My family continues to grow

as I now have two boys and one girl; so you see production is fair in some ways. Come to see us."

GEDDES, WILBURT H., Geophysicist, GS-9, U. S. Navy Hydrographic Office, Falls Church, Va.

JOHNSTON, J. FRED, JR., Forester, Cape Fear Wood Corp., Elizabethtown, N. C.

"Am still searching for pulpwood, timber and timbered lands for Cape Fear Wood Corp. Still have one wife and one daughter. Hope to be able to come to the next rollo."

MORELAND, DONALD E., Plant Physiologist, USDA, ARS, Section of Weed Investigations, Agronomy Dept., N. C. State College.

MUNGER, ERNEST L., Forester and Farm Manager, John R. Williams, Jr., South Boston, Virginia.

"Sorry to be late. Only one year behind now so will take care of it. Still only Beth and I. Sorry you didn't come up for your deer this year. Dove shooting was fairly good too. Hope to see you before too long."

PARHAM, WALTER R., Wholesale Wood Products, Walter R. Parham Co., Richmond, Va. WEST, PAUL M., RIW Engineer, N. C. SH & PWC, North Wilkesboro, N. C.

"Give my regards to all the boys. We now have a young daughter to go with our son—Suzanne West by name. I am enclosing a picture of 'Old Grandpappy Mountain'. Thought some of those 'sand luggers' down East would like to see some pretty country. Our best to you and the school."

WILSON, A. D., District Manager Chief, Virginia Forest Service, Farmville, Virginia.

WHITFIELD, FRED E., Extension Forestry Specialist, Asheville, N. C.

YANCEY, T. E., District Management Chief, Virginia Forest Service, Waverly, Va.

"I am still at Waverly with the Virginia Forest Service. The fires were not quite as bad this summer as they were last. We need a good man who would like to work in loblolly pine country. There is very little of this district like the Hofmann Forest. Do you know of a good man who might be interested?"

#### 1950

BARBER, JOHN C., Forester (Research), Southeastern Forest Exp. Sta., Macon, Ga.

"As of September 1, I went on a new job. I'm assigned to a tree-improvement project which is cooperatively handled by the State of Georgia and the station. You should see the set-up here at the Georgia Forestry Center—air-conditioned offices, laboratories, greenhouses, nursery—it is quite the shining example here in the South. Drop by to see us sometime.

As for the family, we just acquired a new home in anticipation of being here for several more years."

BAREFOOT, A. C., JR., Ass't. Prof., School of Forestry, N. C. State College.

"We have another boy—two now. The last may be red-headed; name, James Eric.

I may say for the record that it's good to be back in Forestry. Who collects GKS's \$2.00?"

BOWLING, DALE R., District Forester, Masonite Corp., Pachuta, Miss.

"Ran into Finnisson not long ago. He is with USFS not far from my location. We had a big discussion.

I also have another son as of Nov."

BRANK, GLENN P., District Manager, Osmose Wood Preserving Co. of America, Inc., Albemarle, N. C.

"I am still selling Osmose and managing to eat three meals a day.

Best regards to all the staff and alumni."

CLAYTON, JOSEPH F., County Forester, N. C. Dept. of Cons. & Dev., Div. of Forestry, West Jefferson, N. C.

"Unable to attend Rolles, but send by regards to former classmates and members of the faculty."

CAMPBELL, P. O., Field Assistant, International Paper Co., Georgetown, S. C.

"Prof., I am sorry to be late with my contribution."

CAVANAUGH, MARTYN J., District Forester, Champion Paper & Fibre Co., Newberry, S. C.

CURLE, LAWRENCE, Soil Scientist, USDA—SCS, North Wilkesboro, N. C.

"Still pulling (soil auger, that is) for the SCS in the beautiful Blue Ridge and still pulling (hair, that is) for a free moment at home.

A single, Joe—age 3, and a double, Kathy and Becky—age 1 are somewhat responsible for the hair-pulling."

DEE, JAMES J., Airline Pilot, First Officer, American Airlines, Yonkers, N. Y.

ENGEL, ELVIN J., Senior Forester, Macon Kraft Co.

"I am still marking timber even though they changed the title. If you have a good job for an experienced man, I would appreciate hearing about it. I saw a few fellows from school this summer when the extension foresters came through this way. Still no new members to add to this family."

GLUNT, THOMAS E., Assistant Forester, Shasta Forests Co., Redding, California.

"Have new addition to family, a boy 5 mos. old, Dec. 9, 1954."

HICKS, N. M., Asst. to Plant Manager, E. L. Bruce Co., Memphis, Tenn.

"Now being in the Products end of the wood business, I haven't seen a tree in so long I've about forgotten what one looks like. If you ever get to Memphis, look me up."

MILLERS, ARTHUR W., Service Forester, NCFPS, Rocky Mount, N. C.

"Seeing, hearing forest problems from the people who make them."

MULKEY, MARCUS A., Field Asst., International Paper Co., Marion, S. C.

"Family—same—1 boy 2 yrs. old; new house—built this summer; work—Asst. to District Forester.

I'm looking after about 40,000 acres of Co. land in Marion, Dillon, Florence and Marlboro Counties. Any of you get down this way any time please stop in and say hello."

PASCHAL, WILLIAM J., Mgr. J. G. Paschal Lbr. Co., Lillington, N. C.

"Working regular."

PHELPS, WILLIAM ROBERT, Research Forester, U. S. Rubber Co., Sumatra, Indonesia.

"I shall be returning to the U. S. A. in April for 7 months' vacation fully paid. Will see

good old N. C. State and the Forestry School during my southern tour in July. Am really looking forward to seeing the old bunch again.

Situation out here in the East is still very critical. Hope things hold off and the war doesn't start until after I get out of here. From all indications this will be a hot place soon. Regards to everyone."

**PHILLIPS, JAMES H.**, Forestry Extension Specialist, N. C. Agricultural Extension Service, Nashville, N. C.

"Family still four in number—Jean; Jim, III (4 yrs.); Carol Lynn (2 yrs.) and of course the bread winner."

**PIERCE, WILLIAM I.**, District Fire Chief, Virginia Forest Service, Portsmouth, Va.

"I finally went off the deep end back in June by getting married; so if you have any extra two bucks laying around, you might send them my way. Nope, no children as yet since it has been only 3 months since I took the fatal step."

Saw John Poplin and Ty Alexander around town the other day."

**RANKIN, JAMES R.**, Forester, Turnell-Morgan, Elizabethtown, N. C.

"I'm still living in Clifton, N. C. and working with Turnell-Morgan, pulpwood dealers. Everything is going along fine. No family additions other than one bird dog."

**SHAW, M. N., JR.**, Service Forester, N. C. Dept. of Cons. & Devel., Asheville, N. C.

"Wish that the check were larger but hope that the contributions keep coming in.

My regards to you and the family, and say hello to Dr. Miller for me."

**WALLS, L. J., JR.**, Forester, Acme Wood Corp., Lake Waccamaw, N. C.

**WHITT, THOMAS W.**, Forester, Continental Can Co., Inc., Hopewell, Va.

"Am now working out of Raleigh. The town is larger than my last stop, but the woods are the same."

Too old to marry; too young to retire—what a mess!"

**WILKINSON, JAMES M., JR.**, District Forester, Masonite Corp., New Augusta, Miss.

"New addition to the family—one fine daughter!"

1951

**BUSH, DAVID H.**, 1/Lt. USAF, Jacksonville, N. C.

**COUSINS, CHARLES**, Seward Luggage Mfg. Co., Petersburg, Va.

"I am still at the same old place, though my duties have expanded somewhat during the last year. Since last contacting the PINETUM (two years ago) I have acquired a wife, nothing more. It seems that NCS men and I have a hard time seeing each other. They're scarcer up this way than hen's teeth . . . Ye gods, that's a lulu, isn't it?"

Here's hoping that everything down NCS way is coming along nicely and I wish you would extend my best wishes to all the faculty and those unknowing freshmen for a joyous Holiday Season."

**CRAMER, LLOYD**, The Dean Co., Bacon-McMillan Veneer Co., York, Pa.

"Currently selling to furniture manufacturers in Pennsylvania, New York and New England. I have lines of mahogany veneers and mahogany lumber, oak and walnut veneers, bay poplar and cativo veneers for x-banding, and chipcore and other laminated products in the chipcore line."

Tell some of the fellows to write.

I'm still a bachelor. A good woman is hard to find. Ha Ha."

**ESTEP, ELDON M.**, Lt. JG, U. S. Naval Reserve, Seattle 99, Washington.

"Still on active duty but now I'm ashore here in the big timber country—the beautiful Pacific Northwest. Present duties leave little time for forestry, but have gotten to some of the SAF Puget Sound Section meetings and have met some of the Univ. of Washington School of Forestry faculty. Tell Dr. Preston I met Dr. Robertson, who was at Colo. A. & M. Dean Marekworth remembered you, Prof. Wyman. Have recently learned that Phil Etchison (1951) has left the USFS at Prineville, Oregon, and taken a job with some industrial concern at Medford, Oregon."

Best of luck to all."

**ETCHISON, PHILIP B.**, Assistant to Logging Engineer, Medford Corp., Butte Falls, Oregon.

"Have left U. S. Forest Service and will try logging, but I still like Oregon."

**GREENWOOD, LEONARD D.**, Senior Forester, Atlantic Coast Line RR Co., La Belle, Fla.

"Sorry you haven't heard from me sooner but it is better late than never. Here is your bucks. The family is fine, including our latest, a 21 months old daughter. We now have a son and daughter."

Congratulations to N. C. State on its many advances in all departments."

**JERVEY, A. P.**, Planter, Firestone Plantations, Liberia West Africa.

"Arthur P. Jervy is in Harbel, Liberia—West Africa, employed as a Planter and Forester by Firestone Plantations, Inc. His two years contract is completed in May 1955, at which time he returns to the U.S.A. (Mrs. J. T. Jervy)"

**JOHANSEN, R. W.**, Graduate Ass't, School of Forestry, N. C. State, Raleigh, N. C.

**MASTEN, JAMES C.**, Forester, Cape Fear Wood Corp., Winston-Salem, N. C.

"Am still among the ranks of the 'pulpwood' boys. Some of the other very amusing names for this item of forest products are: 'punkwood, pulkwood, pumpwood, puckwood', all of which are common to the respective locality. Just the same, it all winds up meaning a lot of hard work and more paper for the ever-increasing utilization of this raw material."

**REID, JAMES R., JR.**, Rock Prospector, Superior Stone Co., Raleigh, N. C.

"Have drifted into the crushed stone business since last year and like it fine. My forestry training has been invaluable to me in this business."

Best regards."

**RENFRO, JAMES F.**, 1/Lt., USAF, Radar Observer, Washington.

"For the past year I have been getting used to the 'Code of the West'. I'm stationed at a Radar Site at Neah Bay, Washington, and if I try to go any farther West, I'll get my feet wet. The country out here is great, plenty of fishing and hunting and the trees are a little larger than those Virginia Pine at Hill Forest, but I'll take that N. C. climate any time. Last Feb. I finally became a married man. My wife is from Houston, Texas. We hope to get out of the Air Force next September and I'm thinking about coming back to State for graduate work if I can swing it."

SCHOLTES, WILLIAM E., Sgt., U. S. Army, Ft. Jackson, S. C.

"By the time the '54-'55 edition of the PINETUM comes out I hope to be a civilian. Yes, my two years of serving in the Army will be over. Prof., take no offense, but my present street address would be very appropriate for you. Hope I can drop by to see you folks one of these days."

STECHEK, D. A., Asst. Supt., Thayer Co., Gardner, Mass.

"Found one of your wood samples the other day. It has a 101 on it. Did you put it in with my books as a parting gift?"

We are all well. Of course Gwen has her uneasy moments since she is due to go to the hospital the end of this month. We are keeping up with Bethel in that respect.

I'm still at the Vermont Furniture Co. I expect to move in the near future though.

Past Gilliam has been with us for the past 3 months. He has been working his way through the plant and has gained some valuable experience I hope. He has done an excellent job and I've been proud of him.

Fred Taylor and Mary are nearby and we see them quite often. Mary and Gwen are due to go to the hospital at about the same time.

Guess this is about all for now. I hear from Tom Ginn now and again. He's still at TECO. Had a letter from Bill Schrupf the other day. He makes quite a letter writer. He seems very happy in his job."

STORY, CLIFFORD M., Right-of-Way Inspector, Carolina Power & Light Co., Southern Pines, N. C.

"I have a wife but no kids, no cats, no dogs, and I won't have two bucks after I mail this epistle."

SHILLING, R. E., International Paper Co., Elizabethtown, N. C.

SKARRUP, ALLEN F., Unemployed (looking).

SYKES, PAT D., Engineer, Drexel Furniture Co., Morganton, N. C.

"Best regards to all."

#### 1952

DORWARD, ROBERT E., Personnel Officer, Lt. (jg), U. S. Navy, Elizabeth City, N. C.

"Here are the two bucks—and probably my next two weeks' allowance. (I got married last March) Hope to get out to see those chestnut trees that Joe Bennett and I planted in '51—guess there's still something to see, isn't there?"

HARDIN, THOMAS N., Area Forest Manager, Container Corp. of America, Helena, Georgia.

"We were proud of the two State men on our summer crew. Hope they enjoyed cruising half as much as we enjoyed their company."

Snapshot: of my family—Off to a fast start—Ann, Tommy and Ben."

HINSHAW, JOE S., Asst. District Forester, N. C. Forest Service, Rocky Mount, N. C.

"Still kicking around in the brush in the vicinity of Rocky Mount but there is one change—I, with a little assistance from Gaye, am expecting a little Hinshaw about Christmas. What won't Santa bring?"

HUGHES, SAMUEL M., Area Forester, Sandhills Wildlife Mgt. Area, N. C. Wildlife Resources Commission, Hoffman, N. C.

"Since the last report I have finished the normal tour with Uncle Sam, and am now running wild in the land of longleaf pine and turkey oak. We have 57,485 acres in which to play, but as yet I haven't found much time to play. Didn't take long to learn that forest management runs the gauntlet from silviculture, to fire control, to plumbing even. In my opinion, a very good example of coordination between wildlife and forest management has been developed here. I really enjoy the work and am getting very good experience in all phases of management. Hope to get a small-scale nursery underway this year to raise our own seedlings for planting here on the area. That will give us a complete cycle, seed to sawtimber."

Be mighty glad to see any of the guys stop by if they are in this vicinity. Should have some good fishing to offer in the near future. Sorry, but the only kind of hunting I can offer is for deer, and only 11,000 acres are open for that.

Only additions to the family are two bird dogs, acquired last summer."

JACKSON, JOHN V., JR., Forester, Virginia Forest Service, Charlottesville, Va.

"No remarks. Everything is the same as last year."

LEROY, JOHN L., Forester, Logging Engineer, Lightsey Brothers, Walterboro, S. C.

"I married the girl I took to the 1951 Rolleo and it looks like I'm going to have to settle down as we have had two additions to the family. Give our regards to Mr. G. K. S."

LANE, EDWARD BENSON, JR., 2nd Lt., U. S. Army, Fort Jackson, S. C.

"It is with great haste that I send two bucks as requested. A State Forester without a PINETUM would be like an Army with no 2nd Lts!"

I'm eager to get overseas. If all goes well, I should be in Europe for Christmas. 'Clyde' Stokes ('53) is here at Jackson. He lives in the same BOQ as I do. I heard from Jim 'Cisco' Barker a few weeks back; he is now stationed near Seoul, Korea.

Sure wish I could make the Rolleo, but that's wishing for the impossible.

I have been considering marriage, but shortly after I found the girl I wanted they gave the word to me concerning my overseas tour. Guess now I'll have to be content to wait a while.

Please give Dr. Miller, Dr. Maki, and the rest of the faculty my sincerest regards."

LEWIS, STEVEN E., Assistant County Agent, Goldsboro, N. C.

"I'm doing educational work here in Wayne. Part of my duties are working on cotton, entomology, and some poultry. My major duties are with landowners and 4-H'ers. I hold planting, thinning, pruning, hardwood control, and other forestry demonstrations."

I'm a member of the Ro-Neta Forestry Club, which meets in Rocky Mount the first Wednesday in each month."

PERONI, GEORGE P., Forestry Instructor, Paul Smith's College, N. Y.

"A new addition to the family—our son, Paul Francis, born Sept. 13, 1954."

At the present time I am teaching Surveying and Forest Protection. Next semester I will have Dendrology and Introduction to Forestry. During the summer months I work with

the group on our Summer Camp for the two-year forestry students. Teach surveying and Wildlife Mgt. at that time. This is my second year at teaching. A wonderful experience."  
PHELPS, ROBERT B., Lt. (jg), U. S. Navy, New York, N. Y.  
ROSS, VINCENT R., Forester in Charge of Timber Procurement, Draper Corp., Asheville, N. C.

"There always has to be a few late entries to cause you grief so please allow me to be the culprit this year.

Saw Dan Crook over the Thanksgiving Holiday and he had nothing but praise for the old Alma Mammy (the 'plug' should be worth at least an extra hour off from the salt mines). He did such a good job that I was convinced I'd have to take a trip down there as soon as possible. See you soon in those luxurious surroundings."

TATE, HIGH A., JR., Forester, NCFPS, Hillsboro, N. C.

"I am now a county forester and like the job fine. Have learned a lot about fire fighting and marking trees, also that my rifle will reach a squirrel in a 5-log poplar.

Didn't see any old grads at the rolleo. What's the matter, boys? Workin' or sompin'? Still have same wife, 2 guns, dog, car and no money. Hope you and the other boys are as well."

#### 1953

BEAN, STEPHEN D., Staff Forester, TVA, Clinton, Tenn.

"Ed Gallup is a newcomer to our organization.

Thought you might like a copy of our Nursery Operations Manual if you don't already have one."

CRUTCHFIELD, DOUGLAS M., Platoon Leader, 2nd. Lt., U. S. Army, Florham Park, Madison, New Jersey.

"Hi there gang. It sure has been a long war! I'm on the downhill grade now. When the Pinetum comes out I will be looking forward to returning to NCS to tell Slocum all about Europe. I have seen several of the forests here and you just wouldn't believe it; to you it would sound like some of GK's 'stuff'."

I hope to do graduate work somewhere so I can brush up on the latest methods and return to the ranks of the scientific woodsman."

EGGLESTON, R. H., Asst. Dist. Forester, Carthage, Tenn.

"Kept thinking I would get over before the deadline, but finally made it on Dec. 20. Saw Dave Morison in Asheville and collected his \$2.00.

Everything fine with my work as farm forester. Have added farming to my daily chores. Also teaching a Farm Forestry class at Tenn. Poly. Tech."

HAYES, JOSEPH M., Land Bank Appraiser, The Federal Land Bank of Columbia, Raleigh, N. C.

"I am still working as a rural appraiser and forester. We have an addition to the clan, Rebecca Ann. She arrived Aug. 14. Well, it looks as if I bragged too much THIS TIME."

KELLING, ROBERT E., Consultant Forester, Tillinghast & Reed, Consulting Foresters, Madison, West Virginia.

"Still trying to uphold the old traditions of dear old N. C. State Forestry School . . . The Proffs clewed us in on the particulars of cruising pocosin style, but what factor do you use when you have pocosin conditions (cat briar, etc.) on a 60 to 70 percent W. Va. mountain slope??"

WELCH, M. ERNEST, JR., Forester, Continental Can Co., Inc., Fredericksburg, Virginia.

"I like my work very much and think that it will remain as such. Still single, happy, and content, but don't know just when this boy will went.

I would like to hear from some of the gang if they can spare another three-cent stamp after that trick play G.K. pulled."

WESSELL, JOHN C., Service Forester, N. C. Forest Service, Hallsboro, N. C.

"Couldn't take Ga. Had to come back to my home in the swamp."

WHITE, RICHARD T., Inspection Foreman, Brunswick-Balke-Collender Co., Marion, Va.

"Sorry to be late."

#### 1954

ANDERSEN, JIM, Student, New Haven, Conn.

"Kindly overlook the blood on the enclosed check. Regards to all my fat, healthy, employed contemporaries."

ARNOLD, THURSTON W., Ass't. Field Rep., Wood Procurement, Plymouth District, Beaufort, N. C.

BARRETT, JAMES P., U. S. Army (recruit), Atlanta, Ga.

"I was offered a job by the Forest Service in Ely, Nevada, but couldn't accept because I have to go into the Army. I took a trip to California and passed through Ely. I didn't see a tree within 200 miles of that town!! The only things I saw were gambling houses, bars and casinos. I hope everything is O.K. at old N. C. State."

BIDEAUX, RENE' O., Field Representative, Halifax Paper Co., Inc., Raleigh, N. C.

BIGGERT, JAMES C., Forester, St. Regis Paper Co., Cantonment, Fla.

"I had forgotten what it was like to work for money. It hasn't taken too long to learn over again though. Tell the boys to come South when they get out—it's a great country down here! I would have sent a little more cash, but car and ring payments really knock a hole in the pay check. You know how it is!!

DERRO, JOSEPH J., JR., Asst. Mgr., Boston Branch, City Lumber Co., of Bridgeport, Inc., Winchester, Mass.

"I'm sorry I waited so long to send you my two bucks. I hope it's still in time to qualify for a copy of the Pinetum. I started work last June for an outfit in Pennsylvania, but I wasn't satisfied so here I am back in New England. I'm connected with the above outfit in their Boston Branch. We have a yard right on the dock here in Boston and we deal mostly in West Coast stock, which of course comes to us by boat. It is interesting work and I like it better than retail, which I was in in Pennsylvania.

Give my regards to the faculty and any various & sundry students you may see."

KATANA, MAHAMMAD SAID, Graduate Student, N. C. State College.

LANGLEY, WALTER R., JR., Land Bank Appraiser, The Federal Land Bank of Columbia, Greenville, N. C.

RAPER, CHARLES F., Oakton, Virginia (U. S. Army)

"Season's greetings to you, sub, from me and das Army. I trust this finds you content under the semester system, and all going well in the School of Forestry.

The Army is quite an organization. About 800 other 2nd Lt's and me are attending 14 weeks at Ft. Belvoir, getting the latest (?) work on the Corps of Engineers and related subjects; some interesting poop, but boring at times.

Enclosed is 2 bucks for the PINETUM. I will withhold any statements for posterity and the posterior portion of the publication since I am accomplishing very little these days.

Best wishes for a good year in '55, and give your family our greetings. How is the 156-horse shay running? I still can't get over it."

SEWELL, CARL, STANLEY, Special Agent, Military Intelligence, Department of the Army, Savannah, Ga.

"I tied the knot while stationed in Baltimore, Md. Mary Ann is one of the former 'Meredith Angels' and we are living in Savannah for the duration of my two years hitch. There are a lot of pulp mills down this way, but this part of Georgia has been burning up; most of them are under control now.

I have had several letters from Jim Biggert over in Cantonment, Fla. He is planning to get married real soon. Says he is enjoying his work. We are planning to get together one week end.

I might stay down this way and look for a job in another year, depends on how the situation is at that time. Enjoyed your news letter—stuck it in with some of my papers and just found it tonight as I was going through them. Hope I'm not too late to make the Pinetum."

WELLS, JOE JACK, Assistant District Forester, Champion Paper & Fibre Co., Spindale, N. C.

"Prof, I was just going to write you to see if I could borrow a couple of bucks. Then your letter came, so I borrowed four bucks from another guy and here's two of 'em. Consequently, I'm now twice as far in the hole.

As for my job, I don't believe I could like it better. As the saying goes, 'I had rather be here than President', and since the chances for the latter are pretty slim, I guess it's a darn good thing."

WRIGHT, ERNEST B., JR., Junior Forester, USFS, Prospect, Oregon.

"I'm on the Rogue River Nat. Forest, near Crater Lake, Oregon, and like it fine. Had a pruning crew for a while and then started a planting crew—100,000 seedlings so far. It's back to pruning next week. Expect 6 feet of snow this winter."

YOST, LARRY H., Trainee, Thomasville Chair Co., Thomasville, N. C.

HELPING TO BUILD

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Through SOIL—

WOODLANDS

& WATER

CONSERVATION PRACTICES.

CAROLINA POWER & LIGHT COMPANY

# Alumni Directory

## CLASS OF 1930

W. B. Barnes	6149 Primrose Ave., Indianapolis 20, Ind.
C. A. Bittinger	Deceased
G. K. Brown	Idaho Springs, Colorado
E. R. Chance	Deceased
T. C. Evans, M.S. '31	276 Cumberland Ave., Asheville, N. C.
R. W. Graeber	303 Hillcrest Rd., Raleigh, N. C.
N. R. Harding	348 Highland Circle, Macon, Ga.
S. G. Hile	Unknown
H. E. Howard	221 Derrydown Way, Decatur, Ga.
J. N. Leader	Unknown
D. Y. Lenhart	W. Va. Pulp & Paper Co., 230 Park Ave., New York 17, New York
D. J. Morris	87 Tacoma Circle, Asheville, N. C.
R. L. Pierce, M.S. '31	851 Scott Street, Stroudsburg, Pa.
H. G. Posey, M.S. '50	Alabama Polytechnic Inst., Auburn, Ala.
H. A. Snyder	Deceased
J. W. Walters	Point Pleasant, Pennsylvania
F. F. Weight	40 Jackson Ave., Middletown, N. Y.
C. B. Zizelman	500 E. Broad St., Tamaqua, Pennsylvania

## CLASS OF 1931

N. B. Alter	Chattahoochee Nat'l Forest, Gainesville, Ga.
H. E. Altman	25 Mississippi Ave., Silver Springs, Md.
J. O. Artman	TVA, Box 194, Norris, Tennessee
G. W. Barner	Easton, Maryland
J. A. Brunn	2804 Chaffin Ave., New York, New York
W. T. Buhrman	5001 Kenwood Ave., Baltimore 6, Md.
J. S. Cartwright	USFS, Box 274, Newberry, S. C.
H. A. Foreman	Marshalls Creek, Pa.
D. B. Griffin	Box 605, Front Royal, Va.
H. J. Loughhead	399 Vanderbilt Rd., Biltmore Station, Asheville, N. C.
C. E. Phelps	204 Lakewood Dr., Richmond, Va.
C. H. Shafer	1233 Lehigh St., Allentown, Pa.
G. K. Slocum, M.S. '32	N. C. State College, Raleigh, N. C.
W. B. Ward	U.S.F.S., Rutland, Vermont

## CLASS OF 1932

W. E. Cooper	301 E. Franklin St., Richmond 19, Va.
A. A. Grumbine	#17 Moss Hill Apt., Gainesville, Ga.
J. J. Kerst	Box 77, Vicksburg, Mississippi
A. H. Maxwell	305 Tate St., Morganton, N. C.
F. J. Miller	1234 Brooks Ave., Raleigh, N. C.
C. G. Royer	105 Penn. Ave., Watsontown, Pa.
G. K. Schaeffer	1534 W. Duval St., Lake City, Fla.
P. W. Tillman	2632 St. Mary's St., Raleigh, N. C.
W. H. Warriner	U. S. Forest Service, Jackson, Miss.
Luther Williams	Box 229, R.F.D. #1, Monroe, N. C.

## CLASS OF 1933

J. C. Blakeney	1755 Sterling Rd., Charlotte, N. C.
W. J. Clark	2811 Barmettler, Raleigh, N. C.
T. C. Croker	Box 311, Brewton, Alabama
A. B. Hafer	Consulting Forester, Laurinburg, N. C.
O. W. Pettigrew	Route #5, Raleigh, N. C.
M. M. Riley	133 Navajo Trail, Portsmouth, Va.
R. J. Seltz	Box 309, Gastonia, N. C.
A. L. Setser	536 Old Post Office Bldg., Atlanta, Ga.
R. A. Wood	18 Buckingham Court, Asheville, N. C.

## CLASS OF 1934

W. J. Barker	112 Calhoun Circle, Clemson, S. C.
E. E. Chatfield	Route #7, Laurel, Mississippi
B. H. Corpening	138 Shelburne Rd., Asheville, N. C.
A. B. Crow	Forestry Dept., University of La., Baton Rouge, La.
F. A. Doerrle	Unknown
L. E. Hairr	Box 112, Marion, N. C.
F. H. Hube	1151 W. 20th St., Laurel, Mississippi
F. H. Ledbetter	Box 594, Lenoir, N. C.
D. C. Plaster	201 Walker St., Morganton, N. C.
C. T. Prout	45 Oriole Dr., Spring Hill, Alabama
A. G. Shugart	Yadkinville, N. C.
W. R. Smith	72 Hibriten Drive, Asheville, N. C.

## CLASS OF 1935

H. F. Bishop	Box 638, Marion, S. C.
W. E. Boykin	Box 267, Lillington, N. C.
C. W. Comfort	McClellanville, S. C.
F. J. Czabator	Unknown
L. S. Dearborn	U.S.F.S., Kingston, New Mexico
Owen R. Douglas	P. O. Box 701, Fernandina Beach, Fla.
J. D. Pindlay	5148 15th St., N. Arlington, Va.
T. B. Gardiner	4303 12th Road S., Arlington, Va.



J. B. Graves	403 Court St., Talladega, Ala.
F. A. Hodnett	Box 535, Dublin, Va.
W. W. Hood	Isle of Hope, Savannah, Ga.
G. E. Jackson	604 West Main St., Washington, N. C.
B. K. Kuler	Soil Conservation Service, Lincoln, Maine
J. W. Miller	Asst. Prof. of Forestry, Box 2852, Univ. of Florida, Gainesville, Fla.
F. N. Newnham	116 E. North Ave., Gainesville, Ga.
H. W. Oliver	Princeton, N. C.
H. H. Page, Jr.	c/o International Paper Co., Wood Yard, Pittsboro, N. C.
J. A. Pippin	Box 664, Rockingham, N. C.
E. G. Roberts	State College, Mississippi
M. W. Shugart	S.C.S., Halifax, N. C.
J. R. Spratt	Box 263, La Belle, Florida
J. M. Stingley	116 Bayshore W., Jacksonville, N. C.
W. E. Stitt	Deceased
H. R. Wright	Box 216, Blairsville, Ga.

#### CLASS OF 1936

A. G. Adam	22 Abbot Drive, Dayton 10, Ohio
W. C. Aiken	Box 189, Prattville, Ala.
L. K. Andrews	Unknown
O. T. Ballentine	Deceased
R. O. Bennett	Deceased
A. H. Black	290 Third Ave., Scottsdale, Pa.
H. M. Crandall	Unknown
D. C. Dixon	Dixon Tire Sales, Lancaster, S. C.
W. M. Hill	Route #2, Thomasville, N. C.
S. K. Hudson	Box 335, Fernandina, Florida
O. H. James	Wallace, N. C.
C. S. Layton	Route #1, Greensboro, N. C.
L. N. Massey	2900 Claremont Rd., Raleigh, N. C.
A. D. Nease	Box 1339, St. Augustine, Florida
P. M. Obst	Deceased
D. M. Parker	Sunbury, N. C.
C. C. Pettit	Box 936, Sylvia, N. C.
C. G. Riley	Pleasant Garden, N. C.
J. L. Searight	Deceased
M. F. Sewell	Unknown
J. E. Thornton	1608 Grigham Rd., Richmond, Va.
W. H. Utley	Box 645, New Bern, N. C.
J. S. Vass	235 Inman Dr., Decatur, Ga.
L. H. Welsh	719 Country Club Road, Wilmington, N. C.

#### CLASS OF 1937

W. J. Bridges, Jr.	Bluffton, S. C.
Leeke Craig	c/o U. S. Consulate Officer, Belem, Brazil
J. W. Davis	703 Beaverbrook Rd., Director, Port of Balt. Comm., Baltimore 12, Maryland
P. L. Davis	Box 404, Waynesville, N. C.
W. G. Davis	Sylva, North Carolina
Henry Delpin	Unknown
J. M. Deyton	Green Mountain, N. C.
N. P. Edge	232 S. Franklin St., Rocky Mount, N. C.
C. A. Fox	Randleman, N. C.
W. D. Gash	3602 Stratford Rd., Wilmington, N. C.
A. J. Gerlock	Route #3, Fairburn, Ga.
J. H. Griffin	Deceased
A. F. Hein	c/o Dr. H. Hein, James Monroe High School, Bronx, New York, N. Y.
J. B. Heltzel	Va. Forest Service, Charlottesville, Va.
T. B. Henderson	Route #1, Box 115A, Williamsburg, Va.
J. W. Hendrix	Assoc. Plant Pathologist, State College of Washington, 57A N. Fairway, Pullman, Wash.
T. M. Howerton, Jr.	Madison, Florida
E. L. Hurst	U. S. Forest Service, Stearns, Kentucky
Clarke Mathewson, M.S. '37	2704 Bedford Ave., Raleigh, N. C.
C. M. Matthews	Univ. of New Hampshire Forestry Dept., Durham, New Hampshire
J. A. Matthews	Box 25, Southern Pines, N. C.
Joseph Matys	Unknown
B. H. Mayfield	Murphy, N. C.
F. D. Mayfield	P. O. Box 26, Hefflin, Alabama
R. L. Nicholson	c/o Capitol City Lumber Co., Hillsboro, St., Raleigh, N. C.
H. O. Roach	United Rayon Mill, Langley, S. C.
C. F. Russell	513 Nelson Drive, Jacksonville, N. C.
L. P. Spitalnik	Unknown
W. L. Troxler	324 S. Fulton St., Salisbury, N. C.
J. Walsh	Beach & Center Sts., Beach Haven, N. J.
W. H. Wheeler, Jr.	Box 610, Wadesboro, N. C.

#### CLASS OF 1938

J. A. Belton	3022 Glenn Ave., Winston-Salem, N. C.
H. C. Bragaw	Deceased
J. S. Campbell	RFD 2, Sedley Road, Franklin, Va.
W. A. Campbell	Box 132, Bronson, Fla.

C. J. Cheslock	Unknown
W. L. Colwell, Jr.	Unknown
P. C. Conner	Firestone Plantations Co., Harbel, Liberia, West Africa
M. M. Dillingham	41 Park Lane, W. Asheville, N. C.
Donald C. Dixon	423 Saddle River Rd., Roebelle Park, N. J.
R. C. Eaker	703 S. College St., Monroe, N. C.
J. W. Furrion	Deceased
J. H. Findlay	902 Edgemont Circle, Gastonia, N. C.
C. H. Floyd	Fairmont, N. C.
W. Lang Foster	Box 603, 112 James St. Georgetown, S. C.
B. Griffin	Red Oak, N. C.
P. A. Griffiths	405 Furches St., Raleigh, N. C.
R. M. Henry	299 S. Bradley Rd., Warren, Arkansas
L. H. Hobbs	Hobbs Lumber Co., Box 276, Wilmington, N. C.
A. J. Honneycutt, Jr.	Marine Recruiting Station, Richmond, Va.
J. B. Hubbard	303 Churchill Rd., Raleigh, N. C.
James Huff	Dillon, S. C.
G. W. Hunter	525 N. East St., Raleigh, N. C.
V. V. Kareiva	2303 Byrd St., Raleigh, N. C.
H. W. Lull	(Present-temporary—Harnett's Lodge, Eagle Bay, N. Y.)
T. J. McManis	Div. of Watershed Mgt., N.E. For. Exp. Sta., Upper Darby, Pa.
W. J. Mashburn	Pleasant Garden, N. C.
J. P. Moorefield	206 Surginor Rd., Rockingham, N. C.
R. M. Nelson	Unknown
E. W. Ryder	223 Federal Bldg., Asheville, N. C.
C. B. Shimer	11 S. Prince St., Shippensburg, Pa.
G. E. Smith	N. C. National Guard, Justice Bldg., Raleigh, N. C.
I. W. Smith	Box 611, Georgetown, S. C.
P. L. Warlick	Unknown
N. B. Watts	398 Vanderbilt Road, Biltmore Forest, Asheville, N. C.
J. A. Whitman	Route #1, Cary, N. C.
W. W. Wooden	Glendon, N. C.
	Deceased

#### CLASS OF 1939

G. W. Arnott	Deceased
J. B. Bailey	Unknown
W. M. Bailey	Box 651, Springhill, La.
J. S. Barker, Jr.	200 Arlington Drive, Wilmington, N. C.
W. L. Beasley	406 St. Patrick St., Tayboro, N. C.
A. E. Butler	2825 Mayview Road, Raleigh, N. C.
C. K. Dale	2411 18th St., N., Arlington, Va.
W. G. Evans	Box 323, Route #3, Wilmington, N. C.
J. T. Frye, Jr.	365 Forest Ave., Athens, Tenn.
C. D. Harris	P. O. Box 366, Lexington, N. C.
H. J. Hartley	308 Bath St., Clifton Forge, Virginia
D. P. Hughes	Colerain, N. C.
R. S. Johnson	Box 432, Laurinburg, N. C.
Ted Jollay	311 N. Congress St., Winoosboro, S. C.
J. V. Lyon	Unknown
H. C. Martin	Box 1022, Radford, Va.
C. L. Page	White Pond, S. C.
C. H. Peterson	Johns Manville Corp., Jarratt, Va.
H. W. Plummer, Jr.	22 Jefferson Apt., Asheville, N. C.
Chester Reed	c/o J. W. Johansen, 402 Horne St., Raleigh, N. C.
J. F. Reeves	1831 Leavenworth St., Manhattan, Kansas
H. R. Rupp	Route #1, Mechanicsburg, Pa.
R. W. Shelley	Deceased
R. W. Slocum	1203 Maple Ave., Richmond, Va.
E. W. Smith, III	309 Daisy St., Boise, Idaho
J. J. Steele	Box 152, Lenoir, N. C.
H. P. Stoffregen	Deceased
I. L. Taylor	Route #1, Harrisburg, N. C.
E. M. Walker	c/o Mrs. Elise Miss Walker, 501 New Bern Ave., Raleigh, N. C.
R. L. Westerfield	5629 Weller Ave., Jacksonville, Fla.
C. N. Wright	224 McGhee Ave., Greenwood, S. C.
P. B. Yeager	203 Lafayette Drive, Hollen Hall, Alexandria, Va.
M. M. Young	Unknown

#### CLASS OF 1940

J. D. Atkins	c/o John D. Atkins, 315 Fourth St., High Point, N. C.
J. L. Bell	Box 352, Davidson, N. C.
R. W. Brake	Military Dept., N. C. State College, Raleigh, N. C.
T. L. Cain	1222 Center St., Little Rock, Arkansas
George Chaconas	6906 8th St., N. W., Washington, D. C.
R. E. Davis	454 Fairway Hill Drive, S.E., Atlanta, Ga.
W. B. Dunn	8 Central Ave., Warren, Pa.
T. E. Gerber	444 North Wood Avenue, Florence, Alabama
W. E. Gibbons	231 Magnolia Ave., Evergreen, Alabama
B. R. Harley	Box 567, Elizabethtown, N. C.
B. S. Hays	Unknown
J. W. Hilton	Deceased
S. O. Ingram, Jr.	2441 Albro Blvd., Tucson 15, Arizona

M. M. Karlman ..... 308 S. 11th St., Newark, N. C.  
 R. M. King ..... Box 1002, Concord, N. C.  
 C. D. Kuhns ..... 100 White Oak St., Kutztown, Pa.  
 R. K. Lee ..... 1400 Wichman St., Walterboro, S. C.  
 P. J. Lozier ..... P. O. Box 13, Wrightstown, N. J.  
 M. A. Matson, Jr. .... 8750 Old Ocean View Rd., Norfolk, Va.  
 J. F. Needham ..... RFD #8, Chillicothe, Ohio  
 John Nigro ..... U.S. S.C.S., Millbrook, N. Y.  
 A. A. Novitskie, Jr. ... 6402 Jay Avenue, Maspeth, New York  
 W. E. Odom, Jr. .... Unknown  
 Leo Parks ..... 54 Louisa Street, Brooklyn 18, New York  
 L. L. Perry ..... Deceased  
 C. H. Peterson ..... Unknown  
 Ernest Roberts ..... Unknown  
 W. O. Ryburn ..... Ryburn Farm Equipment Co., Salisbury, N. C.  
 A. W. Simmons ..... 1706 Independence Rd., Greensboro, N. C.  
 R. S. Swanson ..... Box 64, N. Belmont, Belmont, N. C.

**CLASS OF 1941**

P. D. Abrams ..... Stonehedge, North Granby, Connecticut  
 A. W. Brown ..... Unknown  
 R. E. Carey ..... 6012 Back Lick Road, Springfield, Va.  
 G. V. Chumblee ..... Bladen Lakes State Forest, Elizabethtown, N. C.  
 F. M. Cromartie ..... West Lumber & Box Co., Fayetteville, N. C.  
 E. H. Ericson, Jr. .... Old Neck Rd., Manchester, Mass.  
 C. E. Gill ..... 911 Greeclynn Drive, Blacksburg, Va.  
 Michael Goral ..... Unknown  
 B. T. Griffith ..... 2959 Park Avenue, Wilmington, N. C.  
 F. J. Hartman ..... 12701 Valleywood Drive, Silver Springs, Md.  
 T. G. Harris ..... 426 Jefferson St., Roanoke Rapids, N. C.  
 R. E. Huff ..... Box 52, Mars Hill, N. C.  
 R. H. Landon ..... Deceased  
 A. L. Jolly ..... 103 E. Union St., Sandston, Va.  
 Jesse Levine ..... c/o U. S. Forest Service, Coyote, New Mexico  
 J. E. Melver, Jr. .... Box E., Eulonia, Georgia  
 W. C. Pickett ..... 483 Ridgeway Ave., Statesville, N. C.  
 T. F. Spiker ..... c/o Mrs. W. F. Hartman, 1119 Ordway St., Berkeley 6, Calif.  
 D. F. Traylor ..... Box 1077, Southern Pines, N. C.  
 J. E. Wiggins, Jr. .... 2615 Southern Ave., S.E., Washington 20, D. C.  
 S. L. Wilson ..... 857 Congaree Drive, Florence, S. C.

**CLASS OF 1942**

W. A. Bland ..... Box 257, Goldsboro, N. C.  
 Bill L. Cook ..... 4814 W. Mtn. View Drive, San Diego 4, Calif.  
 W. A. Crombie ..... Unknown  
 R. S. Douglas ..... Box 111, Clinton, N. C.  
 Paul Gawkowski ..... 14 Stuyvesant St., New York, N. Y.  
 J. E. Hobbs ..... Acme Wood Corp., Acme, N. C.  
 J. G. Hofmann ..... Tillery, N. C.  
 G. M. Howe ..... 47 Elm St., Elizabeth, N. J.  
 A. E. Johnson ..... Cementon, N. Y.  
 H. S. Katz ..... 165 Wisner Ave., Middletown, N. Y.  
 E. F. Leysath ..... 111 Church St., Rutland, Vermont  
 H. S. Muller, Jr. .... Box 122, Kinsale, Virginia  
 A. A. Pruitt, Jr. .... Box 283, Washington, Ga.  
 F. A. Santopolo ..... Dept. of Sociology, Fordham University, New York 48, New York  
 J. T. Turner ..... Coosa Pines, Alabama  
 F. D. Williams ..... 1226 Salem Dr., Charlotte, N. C.

**CLASS OF 1943**

H. I. Epstein ..... 36 W. McKenzie, Stockton, California  
 J. N. Etheridge ..... Box 552, Plymouth, N. C.  
 Morris Green ..... 756 Pelham Parkway So., Bronx, New York  
 R. B. Lutz ..... Drumhill Road, Wilton, Connecticut  
 J. D. Martin ..... Box 395, Summerville, S. C.  
 O. F. Martin ..... 161 Ridgeland Way, N.E. Atlanta, Ga.  
 J. T. Maynard ..... RFD 2, Box 516, Georgetown, S. C.  
 W. H. Ogdan ..... 5812 Hillock Ave., Fountain City, Tenn.  
 H. D. Packard ..... 89 Maple St., Maplewood, N. J.  
 E. H. Sayre ..... Box 263, Tryon, N. C.  
 J. L. Shoub ..... 510 N. William St., Hazelhurst, Ga.  
 H. L. Terry ..... 516 Darden Court, Rocky Mount, N. C.  
 E. H. Ward ..... 15 Anne St., Ozark, Alabama  
 J. F. Williams ..... Windsor, N. C.  
 R. W. Wood ..... 207 Todt Hill Rd., Staten Island, N. Y.

**CLASS OF 1944**

H. W. Hinshaw ..... Unknown  
 R. A. Holcombe ..... 4006 Laurence Ave., Kensington, Maryland

**CLASS OF 1946**

J. F. Hardee ..... Box 6046, Raleigh, N. C.  
 C. M. Hartsock ..... N. C. State Hwy. Commission, Durham, N. C.  
 Henry Kaczynski ..... 1907 Chestnut Avenue, Trenton, N. J.  
 R. J. Robertson ..... Route #1, Parsonsburg, Maryland  
 S. G. Spruiell ..... 4599 Montevillo Rd., Birmingham, Ala.  
 E. T. Sullivan ..... 325 8th Ave., S.E., Apt. 304, Minneapolis 14, Minnesota

CLASS OF 1947

W. J. Barton	4731 Cedar Springs Rd., Columbia, S. C.
W. S. Campbell	College Park, Staunton, Virginia
Robert Dorsen	Unknown
W. J. Ellis, Jr.	Box 17, Jarrett, Virginia
Jay H. Hardee	900 Carrick Ave., High Point, N. C.
Norman Hodal	1009 Goodwin Ave., Elizabeth City, N. C.
D. T. House	Box 11, Louisville, N. C.
J. B. Johnson	RFD #4, Raleigh, N. C.
J. C. Jones	Box 473, Smithfield, N. C.
W. M. Keller	Court House, Winston-Salem, N. C.
R. D. Mahone	Capitol Landing Rd., Williamsburg, Va.
C. E. Schreyer, Jr.	49 Fayette Rd., Seaside, N. Y.
W. L. Wharton, Jr.	Woods Dept., Hollingsworth & Whitney Co., Mobile, Alabama

CLASS OF 1948

C. E. Blackstock, Jr.	Box 110, Bel Air, Md.
R. C. Boyette	General Plywood Corp., Tarboro, N. C.
F. N. Craven	108 Circle Court, Fayetteville, N. C.
N. E. Dayvault	215 McGill St., Concord, N. C.
B. D. Franklin	Box 672, Silsbee, Texas
V. Wm. Herklevick	35 Ivey Circle, Wilmington, N. C.
W. W. Hook	4819 Buckingham Drive, Charlotte 3, N. C.
T. F. Icard	1818 Main St., Sarasota, Florida
S. N. McKeever	Spring Creek, West Va.
E. N. Seltzer	135 Beech St., Concord, N. C.
G. W. Smith	N. C. State College, Kilgore Hall, Raleigh, N. C.
L. J. Smith, Jr.	Box C, Crawfordsville, Fla.
R. I. Solow	635 Maple St., Manchester, N. H.
Fred West	414 W. 120th St., Apt. 301, New York 27, N. Y.
B. M. Zuckerman	Rt. #1, Urbana, Ill.

CLASS OF 1949

V. D. Adams	Unknown
B. L. Allen	P. O. Box 854, Rocky Mount, N. C.
J. A. Altman	Starmount Co., Greensboro, N. C.
R. J. Alvis	342 55th St., Newport News, Va.
G. W. Barnes	415 Elm St., Raleigh, N. C.
J. C. Baskerville	Rt. 2, Hickory, N. C.
J. E. Bernard, Jr.	Box 236, Sylva, N. C.
R. Q. Bishop	815 W. Evans St., Florence, S. C.
A. W. Boswell	Box 654, Battleboro, N. C.
S. G. Boyce, M.S. '51 Ph.D., '53	Route #2, Wadesboro, N. C.
C. A. Broadway	104-D Abbie Apts, Spartanburg, S. C.
E. F. Corn	District Forester, N.C.F.S., Rocky Mount, N. C.
A. C. Craft	119 N. 6th St., Wilmington, N. C.
T. S. Davis	c/o J. S. Davis, Troy, N. C.
W. C. Deaton	Liberty, N. C.
G. V. Durham	1922 Berryhill Rd., Charlotte, N. C.
A. J. Edler	P. O. Box 629, Newark 1, N. J.
G. R. Fuller	Box 426, Elkin, N. C.
J. H. Gandy	Harbel, Liberia, West Africa
R. B. Geddes	Box 216, Tappahannock, Va.
W. H. Geddes	1115 W. Greenwich St., Falls Church, Va.
J. H. Gilliam	715 Glendale Ave., Danville, Va.
J. D. Guthrie	578 W. Shadowlawn Dr., Chattanooga, Tenn.
J. P. Harper	P. O. Box 2582, Raleigh, N. C.
A. R. Harris	Box 3033, Greensboro, N. C.
T. M. Hasell, Jr.	P. O. Box 579, Burgaw, N. C.
R. L. Horne	522 E. Warrent St., Shelby, N. C.
H. G. Johnson	609 Joyner St., Greensboro, N. C.
J. F. Johnson, Jr.	P. O. Box 536, Elizabethtown, N. C.
W. T. Jones	Columbia Road, Orangeburg, S. C.
W. G. Kelley	Diamond Hill Plywood Co., 1003 E. 9th St., Richmond, Va.
S. H. Long	416 Moody Ave., Knoxville, Tennessee
D. E. Moreland, M.S. '50, Ph.D., '53	Agronomy Dept., Gardner Hall, N. C. State College, Raleigh, N. C.
E. L. Munger	Box 72, South Boston, Va.
A. P. Mustian, Jr.	1000 Marvin Ave., Leesville, La.
L. A. Muth	Stanfield, N. C. (Bridgeport, W. Va.)
R. E. Nielsen	1311 Glenwood Rd., Brooklyn 30, N. Y.
R. L. Noneman	2106 White Oak Road, Raleigh, N. C.
W. R. Parham	812 Hepler Rd., Richmond, Va.
T. W. Patton	Box 572, Jacksonville, N. C.
M. E. Pekar	International Paper Co., Georgetown, S. C.
H. R. Powers, Jr., Ph.D. '53	Div. of Cereal Crops & Diseases, Plant Industry Station, Beltsville, Maryland
F. P. Probat	1518 Oakwood Ave., Richmond, Va.
Franklin Salzman	418 Alabama Ave., Brooklyn, N. Y.
B. F. Smith	Unknown
W. Mc Stanton	Rowland, N. C.

P. M. West ..... P. O. Box 563, North Wilkesboro, N. C.  
 F. E. Whitfield ..... 15-C Coleman Apts., Asheville, N. C.  
 A. D. Wilson ..... 310 Bridge St., Farmville, Va.  
 D. K. Wilson ..... Unknown  
 F. W. Woods ..... So. For. Exp. Sta., Marianna, Florida  
 O. T. Wynne ..... Route #3, Box 644, Elizabeth City, N. C.  
 T. E. Yancey ..... Box 222, Waverly, Va.

CLASS OF 1950

H. W. Alexander ..... Box 235, Murphy, N. C.  
 T. C. Alexander ..... 104 Tucker St., Burlington, N. C.  
 P. E. Appleby ..... 995 Lander Road, Cleveland 24, Ohio  
 J. C. Barber, M.S. '51 ..... 1986 Knightbridge Rd., Macon, Ga.  
 A. C. Barefoot, M.F. '51 ..... School of Forestry, N. C. State College, Raleigh, N. C.  
 R. L. Beal ..... International Paper Co., Brandon, Miss.  
 F. W. Biddix, Jr. .... Spruce Pine, N. C.  
 C. A. Blevins ..... Box 275, Norton, Va.  
 D. R. Bowling ..... Box 52, Pachuta, Mississippi  
 R. E. Boyette ..... 1714-A Maple St., Goldsboro, N. C.  
 A. W. Bragg ..... 1709 G. St., Durham, N. C.  
 G. P. Brunk ..... Box 374, Albemarle, N. C.  
 W. R. Broadwell ..... D-4 Country Club Homes, Raleigh, N. C.  
 J. R. Bunch ..... Hobbsville, N. C.  
 D. T. Burkett ..... 5402 Phillips Hwy., Jacksonville, Fla.  
 P. O. Campbell ..... 219 Smith St., Georgetown, S. C.  
 L. R. Cantliffe, Jr. .... 93 Hall Ave., Meriden, Conn.  
 M. J. Cavansugh ..... 1607 Nance St., Newberry, S. C.  
 J. F. Clayton ..... Box 129, West Jefferson, N. C.  
 L. D. Curle ..... Box 12, N. Wilkesboro, N. C.  
 W. F. Currence ..... 2345 Salem Court, Winston-Salem, N. C.  
 H. G. Dallas, Jr. .... Rt. 3, Reidsville, N. C.  
 J. J. Dee ..... 111 Tibbets Rd., Yonkers, N. Y.  
 H. C. Dellinger, M.F. '51 ..... Box 333, Mt. Holly, N. C.  
 D. A. Dubow, M.F. '54 ..... 143 Fairbanks St., Hillside, N. J.  
 W. R. Edens ..... 488 Pearl St., Darlington, S. C.  
 A. C. Edwards ..... Box 113, Accoac, Va.  
 W. T. Ellison, Jr. .... Dist. Extension Forester, c/o County Agent Washington, N. C.  
 E. J. Enzel ..... 864 Laurel Ave., Macon, Ga.  
 J. T. Evans ..... Box 667, Sylva, N. C.  
 B. F. Finison ..... c/o R. B. Finison, Troy, N. C.  
 W. C. Furr ..... Rt. 1, Box 621-B, Concord, N. C.  
 J. H. Gilliam ..... Rt. 2, Elon College, N. C.  
 T. E. Glunt ..... 2195 Terrace St., Redding, Calif.  
 J. A. Gravely ..... 502 S. Caldwell St., Brevard, N. C.  
 R. L. Gray ..... Tompkinsville, Kentucky  
 H. J. Green ..... 1113 Meadows St., New Bern, N. C.  
 T. S. Griffin ..... Mengel Co., Elizabeth City, N. C.  
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Sep. 24, 1954

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Yes, study comes very hard to me, as you know Sir, the Eastern Nations especially this Green island was far behind in science than morality. Natural science however is built of accumulated experience; correct experience will depend on accurate apparatus. Owing to the lacking of this which made me have the idea of going abroad to get further achievement.

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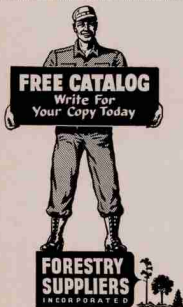
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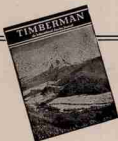
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