



# Pinetum

JOURNAL  
of the  
SCHOOL OF FORESTRY  
North Carolina State College

1963

The cover of this year's PINETUM is Weldwood Industrial Flexwood and is genuine Tigerwood veneer.

Weldwood Flexwood—developed by United States Plywood—is genuine veneer permanently laminated to either non-woven fiber backing (Industrial Flexwood) or a cloth backing (Architectural Flexwood), and by a special flexing process is made extremely pliable. It is available in more than forty domestic and imported woods of choice grain and figure.

Weldwood Industrial Flexwood is sold in unfinished sheets as well as bonded to substrates such as aluminum and steel by our Flexible Materials Division in Louisville, Kentucky. Substantial sales of the latter are being realized from the automotive industry for interior decorative trim on the Lincoln, and from fabricators of metal partitions (E. F. Hauserman—Virginia Metal Products) and other substrates. Manufacturers of major home appliances, such as refrigerators (Amana and General Electric) and dishwashers (General Electric and Hobart "Kitchen-Aid") also are using Industrial Flexwood for facing panels to match fine kitchen cabinet work. Many other industries are exploring uses for this interesting and versatile decorative material.

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# The PINETUM

Annual Publication  
of the  
Forestry Club  
North Carolina State College  
Raleigh

School of Forestry



Kilgore Hall

**1963**

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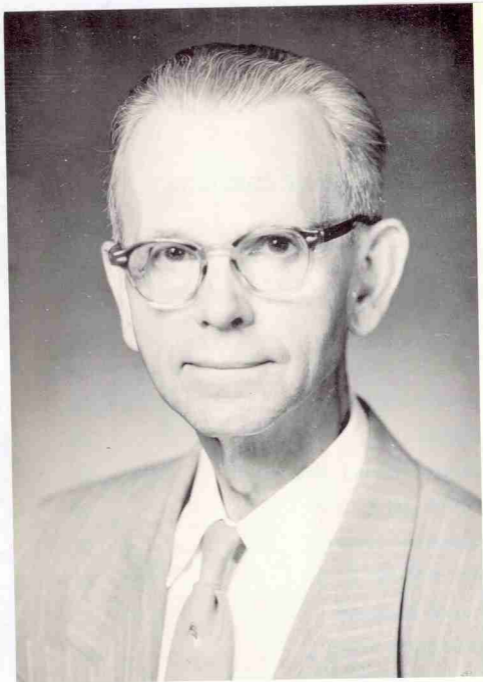
Cartoonist . . . Tom Bentley

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*We of the Pinetum staff are proud to present the 1963 edition. We hope it represents the dynamically expanding rate of growth and development of the School of Forestry. We concerned ourselves with presenting people: their activities, achievements, recognitions, goals, and dreams. This is the stuff on which we thrive; this is what makes our School what it is: a nutrient matrix for academic pursuit and intellectual achievement in the field of forestry. We hope you see yourself within these pages.*

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Dr. William D. Miller

Retiring

Associate Professor of Silviculture

## Dedication

*It is with the greatest magnitude of esteem, honor, and admiration that we dedicate this 1963 edition of the Pinetum to Dr. William D. Miller. For 28 years he has been a guide and an inspiration for faculty, alumni, and students. Without reservation he has devoted his life to a better understanding of forestry and the upbuilding of our school. His reserving ways have earned him a place of respect in the minds of all who have known him.*

*Dr. William D. (Ted) Miller was born in Portland, Oregon on September 26, 1897. He attended Reed College, Portland, where he received his A. B. and also met his wife, Catherine, who was a classmate. They were married in 1928. Dr. Miller received his M. F. Degree at Yale in 1930, followed by his Ph.D. in 1932.*



Dr. Miller, his wife Catherine, and their son Alden.

*From 1933 to 1934 he taught at the University of Idaho and worked as a forest technician for the U. S. Forest Service. In 1935 he came to N. C. State and has been here ever since.*

*Dr. Miller's accomplishments are as varied as they are numerous. He served in the U. S. Army from 1916 to 1919. He is a member of the American Association for the Advancement of Science, Sigma Pi, Xi Sigma Pi, and the Society of American Foresters. He has done extensive research, his primary interest being in Virginia Pine silviculture. He is joint author, with Professor Slocum, of the Virginia Pine Bulletin and is a frequent contributor to the Journal of Forestry. He was chairman of the committee for compilation of the Third Cumu-*

*lative Index for Journal of Forestry. In 1951-52 he was National Secretary-Fiscal Agent for Xi Sigma Pi fraternity. He is an accomplished musician, playing the piano for church services each Sunday at the Oberlin Road Fire Station.*

*During his stay at State College he has taught silviculture, silvics, dendrology and forest policy.*

*Upon retirement he plans to start a translation service, with special emphasis on French and Swedish. His translating has been certified by the Department of Commerce and his services are open to anyone.*



That's a good one Ralph!



## FACULTY



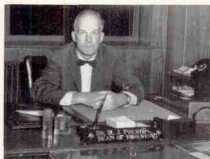
### in Teaching

The dedicated teacher exists for his students, striving for conciseness and clarity of expression, directness of approach, and validity of conclusion. He burns himself out in his effort to raise questions, cast doubts and fill the voids of ignorance. His highest rewards are the achievements of his students.

### in Research

The dedicated researcher knows and loves the thrill of inquiry into the unknown. He moves in the realm of hypothesis and postulation, observing this and testing that until he is satisfied that truth is within his conclusion. His is the role of student and teacher.





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B.S.F., M.S., North Carolina  
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B.S., M. Wood Tech., D. F.,  
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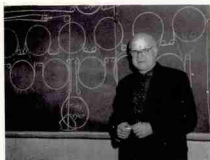
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Staff Assistant in charge of  
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College





## Dr. Benjamin Jayne

Professor of  
Wood Technology

Dr. Jayne joined the staff this year as Professor of Wood Technology. He received his Ph.D. at Yale University and later became a member of the faculty. At Yale he taught courses concerning the

physical properties of wood. Later, as a member of the faculty at Washington State University, he did research on the mechanical properties of wood with special emphasis on development of nondestructive tests for single fibers of wood and wood products. He has also done post-doctoral work at University of California (San Diego) in the field of solid state physics.

At State College he is concerned with graduate teaching, graduate student advising, and in the process of setting up equipment and procedures for research work on the mechanical and rheological (plastic) properties of wood. He is also participating in an evaluation study of the wood technology curriculum at the undergraduate level.

Dr. Jayne is a native of northern Oklahoma. He and Mrs. Jayne have two girls and one boy, all of whom are in grammar school.



## Dr. Charles B. Davey

Professor of Soil Science  
and Forestry



Dr. Charles B. Davey is Associate Professor of Soil Science and Forestry with joint appointment to the School of Forestry and the Department of Soil Science. In this capacity he serves as graduate student advisor, has lectured in the soil science 200 course, and next spring will teach a Forest Soils course and part of a course in Soil-Plant Relationships. He is engaged in research concerning the effects of soil conditions on tree growth, the relationship of soil microbiology to tree nutrition and effects of cultural practices in forest nurseries on physiological preparedness of seedlings to stand competition in the field.

Dr. Davey grew up in western New York State, in the vicinity of Rochester. In 1950 he received his Bachelor of Science Degree in forestry at Syracuse University. He then went to the University of Wisconsin, where he received his Master's Degree in forest soils in 1952, and his Ph.D. in forest soils and microbiology in 1955. Before coming to N. C. State College in July 1962, Dr. Davey spent two years in the Army and five years at the U. S. Department of Agriculture Experiment Station at Beltsville, Maryland, where he worked in research on the relation of soil microbiology to plant diseases.

Dr. Davey is married and has three children, Douglas, 8, Barbara, 6, and Andrew, 3. His wife, Beth, is a native of Wisconsin. They are now living on Avents Ferry Road south of Raleigh.

## Dr. Bruce J. Zobel

Edwin F. Conger  
Distinguished Professor



Dr. Bruce J. Zobel, professor of forest genetics, is the first recipient of the Edwin F. Conger Distinguished Professorship, one of the highest honors in the School of Forestry. Dr. Zobel who is in charge of N. C. State-Industry Cooperative Forest Free Improvement Program joined the faculty in 1956. A native of Watsonville, California, Dr. Zobel received his B.S. in Forestry from the University of California at Berkeley. He then worked for the Pacific Lumber Company in logging engineering until becoming a Forestry Officer in the U. S. Marine Corps in 1945. After this he went back to the University of California where he received his M.F. in Silviculture in 1949 and his Ph.D. in Forest Genetics in 1951. From that time until his coming to State College he worked in forest genetics with the Texas Forest Service.

Dr. Zobel is recognized internationally for his outstanding contributions to the field of forest genetics, having presented papers both in the United States and abroad. Last year he served as a visiting scientist lecturer under the auspices of the National Science Foundation. He is a member of Xi Sigma Pi, Phi Beta Kappa, Sigma Xi, Society of American Foresters, and the Genetics Society of America.

Edwin F. Conger of Staunton, Virginia provided \$50,000 for the Conger Professorship from part of the proceeds from the sale of 3,500 acres of timberland. The interest of this endowment is added to the salary of the recipient.

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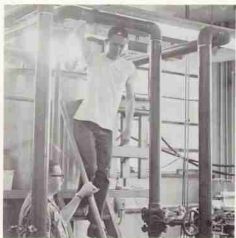


Miss Cicely Brown Mrs. Dot Booker  
GENETICS LABORATORY

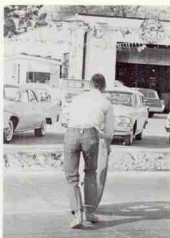


Mrs. Elga Filton  
GENETICS

## Students



Get down from there, you don't know nothing 'bout machines.



Jason retrieved the runaway tire which fell from under the bus. Damage was minimal considering that it rolled about a block.

Turn the little handle and watch them dance. It must be good to stay out in that weather for it.



Freshmen meet the faculty at the orientation picnic.



"Suspender in the Grass" or "Get Your Finger Out of My . . . ."

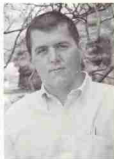


## Seniors

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 Roland, N. C.  
 Forest Management  
 Alpha Phi Omega; Forestry Club; Westminster Fellowship; SAF.



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 Pine Bluff, Ark.  
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Sigma Pi; Forestry  
Club, *Agromeeck*, *Pinc-*  
*tum*.



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Pulp and Paper Tech.



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Delta; AICHE.



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Sigma Nu; Fourdrinier  
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ball.



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Monroe, La.  
Pulp and Paper Tech.  
Xi Sigma Pi, Forester.



WARREN G. BOYETTE  
Clayton, N. C.  
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Xi Sigma Pi, Alpha  
Zeta; SAF.



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Whiteville, N. C.  
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Alpha Zeta; Xi Sigma  
Pi; Phi Kappa Phi;  
Gamma Sigma Delta;  
Forestry Club; Mono-  
gram Club; Varsity  
Track, Captain; Var-  
sity Cross-Country; In-  
tramural F o o t b a l l,  
Basketball.



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Forest Management  
Intramurals.

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Beta; Forestry Club;  
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TKE; Forestry Club;  
SAF.



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Apex, N. C.  
Forest Management



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Waynesville, N. C.  
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Forestry Club.



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Pulp and Paper Tech.  
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Circle K Club; Advan-  
ced ROTC.





VICTOR G. DOWLESS  
 Elizabethtown, N. C.  
 Pulp and Paper Tech.  
 Xi Sigma Pi; Four-  
 drinier Society; B.S.,  
 Forest Management,  
 1957; Crowns Zeller-  
 back Award.



JOHN L. FISHER, JR.  
 Selma, Ala.  
 Forest Management  
 Forestry Club; Intra-  
 mural Football; Foot-  
 ball, 1.



CHARLES E. DUNNING  
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 Intramural basketball,  
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 Forestry Club; Trans-  
 fer from Duke Univer-  
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 Zeta; Forestry Club,  
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 Chain; Xi Sigma Pi;  
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 1963 Pinetum;  
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 4; Forestry Club, SAF,  
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mech Staff, Photogra-  
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Student Government.



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Forest Management  
SAF.



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tramural bowling;  
Graduate, Paul Smith  
College with A.A.S.



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Senate Com.





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Forest Management  
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Pulp and Paper Tech.  
Sigma Pi Epsilon,  
Fourdrinier.



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Wood Technology  
Varsity Football; FP  
RS, Treasurer; Advanced  
ROTC.



MIKE CLARK  
Canton, N. C.  
Forest Management  
SFE; Varsity Football;  
Monogram Club; For-  
estry Club.

## Random Observations



. . . 36, 22, 37, and swaying gently.



Lunch Break I



When cruising gets tiresome  
you can always make snow-  
balls.

# Classes

Management and Wood Technology Freshmen



Management Sophomores



Management Juniors





Pulp and Paper Freshmen



Pulp and Paper Sophomores



Pulp and Paper Juniors



### Wood Technology Sophomores



### Wood Technology Juniors



## Graduate Students

Abis, Lilia Gonzales  
 Atmawidjaja, Rubini  
 Beineke, Walter Frank  
 Benvenuti, Roger Raymond  
 Biggerstaff, Tim  
 Buckner, Edward Reap  
 Byrd, Von Lenord  
 Castillo, Jamie Z  
 Djajapertjunda, Sadikin  
 Duong, Hung Trung  
 Elers, Tage Lennart  
 Hoeker, Harold Willeta, Jr.  
 Huxster, William T., Jr.  
 Kellison, Robert Clay  
 Kinloch, Bohun Baker, Jr.  
 Laughinghouse, Gerald Franklin  
 Lin, Yung Huan  
 Loos, Wesley Emil  
 McElwee, Robert Lee  
 Mehdizadeh, Parviz  
 Munoz, Juan Efrain  
 Namkoong, Gene  
 Nelson, Ralph Melvin, Jr.  
 Perry, Paul Williard  
 Plowman, Joseph David  
 Posey, Clayton Eugene  
 Prak, Anco Luning  
 Rao, Raghavendra  
 Roterda, James Hall  
 Santamaria, Felix Garcia  
 Schmitt, Daniel Martin  
 Schreuder, Hans Tijmen  
 Smith, Robert Clifford  
 Smith, William Edmond  
 Snyder, Jerry Lee  
 Stanton, William McKinnon  
 Stayton, Charles Lewis  
 Stonecypher, Roy Wesley  
 Sulaiman, Asham Sultan  
 Tabor, Christopher Alan  
 Taft, Kingsley Arter, Jr.  
 Taylor, Fred William  
 Tesie, James Lamar  
 Torrico, Martin Torrico  
 Walker, Nathaniel  
 Wang, Philip Hweig  
 Wilfong, James Garfield

Philippines	MSWT
Indonesia	MSF
Indiana	Ph.D.
Mass.	MWT
NC	MWT
NC	Ph.D.
Tennessee	MWT
Colombia	MS
Indonesia	MSF
Vietnam	MWT
Sweden	Ph.D.
New Hampshire	(post-doctoral)
NC	MWT
W. Va.	MSF
S. Carolina	MF
NC	MWT
China	MF
NC	Ph.D.
NC	Ph.D.
Iran	MF
Puerto Rico	MF
New York	Ph.D.
NC	MSWT
Pennsylvania	MF
NC	MF
Oklahoma	Ph.D.
Holland	Ph.D.
India	MSF
Georgia	MSF
Spain	MWT
Florida	Ph.D.
Holland	MSF
W. Va.	MF
Florida	MWT
W. Va.	MWT
NC	MF
Minnesota	MWT
NC	Ph.D.
Iraq	MF
Maryland	MSF
La.	Ph.D.
Virginia	Ph.D.
Miss.	Ph.D.
Spain	MF
Oklahoma	Ph.D.
China	Ph.D.
W. Va.	MWT

## Activities



Forestry Club's booth at the C. U. carnival held a challenging game for the players and a profitable one for the club.



Is that you Smokey?

The annual Rolleo is occasion for the axeman to test his skill.



Xi Sigma Pi outstanding senior awards are presented to Milton Spain (far left), Scott Bentley (left), and Bill Craig (far right) by Brad Biggar, Forester.



Neither winter's frigid blast nor summer's torrid heat. . . .





## The Forestry Club

by

HENRY MANNING '63

The North Carolina State College Forestry Club got off to a leaping start this spring by electing officers at the first meeting. They are as follows:

President—Henry Manning

Vice President—Ned Coville

Secretary—Burnie Moore

Treasurer—Harry Fisher

Program Chairman—Joe Thomas

Ass't. Program Chairman—Charles

Duckworth

Publicity Director—Barr Brooks

Sergeant-at-arms—Jim McGraw

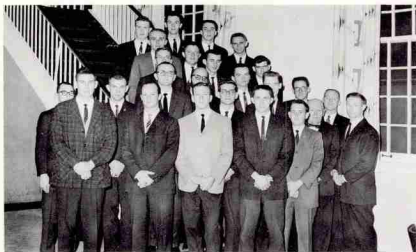
Social Chairmen—Chandler Eakes and Jerry Mauk

Advisors—Dr. J. O. Lammi and Dr. R. C. Bryant

Changes which have been made in our routine operating order consists of weekly meetings instead of bi-weekly meetings. This action is aimed at increasing attendance and interest in the club. With the excellent programs being scheduled and the addition of two social chairmen, membership this semester should rise above the 70-mark set last Spring. Membership should also feel the boosting effect of the added publicity being drummed up. Also, we are blasting each meeting off to a lively start by singing the "official" Club theme song "I'm a H\_\_\_\_\_ of a Mess From NCS".

The Fall Club events included sponsoring a booth at the State Fair and having the annual Rolleo (which was termed a big success especially the food). In addition to these two events, the Club began selling Smokey Snuffers and running a pulpwood operation to raise money for the Southeastern Forestry Conclave which is scheduled to be held at N. C. State in 1965.

The schedule of spring events provided work and fun for all. The Club sponsored a booth at the C. U. Carnival on March 30. The games of "chance" netted the Club a nice profit. The annual spring Logger's Brawl is scheduled to be held at Hill Forest on April 20. To round out the spring events, the Southeastern Conclave is being held at Clemson, S. C. on May 4.



## Xi Sigma Pi, Mu Chapter 1962-63

by

HOWARD TICKLE '63

Officers—1962-63

Forester—Francis B. Biggar      Secretary-Fiscal Agent—William H. Tickel, Jr.  
Associate Forester—James C. Eakes      Ranger—Lynn Jackson

Xi Sigma Pi, the oldest forestry honor fraternity in the American colleges, was founded on November 24, 1908, at the University of Washington. Mu Chapter of Xi Sigma Pi was established at North Carolina State College on April 20, 1940, and since that time has striven "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 forestry activities."

This year the Executive Council extended an associate membership to Mr. G. E. Jackson, a graduate of the School of Forestry at North Carolina State College and currently a consulting forester at Washington, North Carolina. This action of the Executive Council was initiated by Mu Chapter upon the recommendation of Dr. R. C. Bryant, Executive Council Representative.

The chapter has also undertaken to publish an informative news letter, *Slabs and Edgings*, which is published monthly, the first issue appearing in March.

Each year Mu Chapter honors the sophomore in the School of Forestry

*(Continued on page 43)*



## Fourdrinier Society

by

TOM BROWN '63

President—Tom Brown

Vice-President—Mike Ford

Secretary—Vance Best

Treasurer—Jerry Self

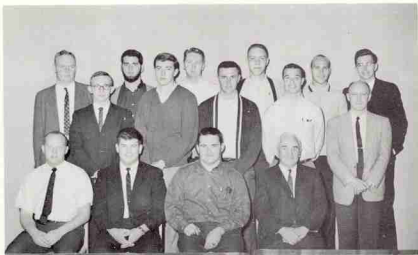
Program Chairman—Alford Smith

The official club for the Pulp and Paper Technology curriculum is the Fourdrinier Society. This society is named after one of the basic pieces of paper making equipment, the Fourdrinier, a machine that is actually used to form the paper sheet.

The Fourdrinier Society was established in order to promote interest in the paper industry and to broaden the general knowledge of the students about this field. The society is also interested in promoting social and educational activities within the curriculum. A curriculum club such as this can serve to let the students become better acquainted and also allow them to get to know their future instructors.

The society has had many fine speakers this year. The programs have ranged in variety from Dr. A. J. Stamm's excellent presentation of "Australia, And its Wood Utilization Industries" to an interesting program about "Technical Sales in the Paper Industry". Also, programs were presented on paper mill equipment, "Alaska Today", and the paper industry in general, in addition to several fine films.

The society had a party in December and now plans to have another one in June. The party in June will be a picnic at Raleigh Beach at which there will be a large supply of hamburgers and plenty of "drinks" for thirsty paper makers.



## Forest Products Research Society

by

KEN C. PEARSON '63

President—Ken C. Pearson

Vice President—Jack Jordan

Secretary—Jimmy Gregory

Treasurer—Roy Wood

Since the F. P. R. S. Student Chapter was formed at North Carolina State College in 1951, it has grown under the able guidance of Professor Roy M. Carter, past president of the National Forest Products Research Society and Professor of Wood Technology at State.

The goal of the student chapter parallels that of the National Society—"to aid in the exchange of information on latest developments in the forest products field." The chapter has as some of its speakers prominent men from various areas of the forest products field. These men are asked to speak on their particular interests and jobs in the field, and also to give advice. This program helps to broaden the interest of the members, and to increase their knowledge of the different areas in the field.

The chapter works closely with the Furniture Club and the Furniture Manufacturing and Management Curriculum by having some joint meetings, joint picnics, and by alternating officers.

The ultimate goal of the chapter is to be recognized in affiliation with the National Society. In the past, the National Forest Products Research Society executives agreed that organizations with similar ideas on various college campuses could be associated with the National Society on a junior basis. The N. C. State College Chapter of the F. P. R. S. is the first student chapter to be recognized by the National Society.

# The 1962 Rolleo

by

HAROLD BLANCHARD '63

The Autumn sun rose quickly and brilliantly on THE DAY in October. Nineteen October was the fateful date, when all good students of the forestry guild donned their bush clothes and headed for the Hill Forest. With the



Chandler Eakes puts the steel to the wood!

promise of sneaky and underhanded competition, exacting and exhausting battles, and much delicious Bar-B-Que, THE DAY of the 1962 Rolleo had at last arrived.

Some of the initiated were disappointed when the rains did not fall, nor the clouds gather, for this has been the case for the past 3 years. At last, a Rolleo without rain. It just didn't seem right.

Nevertheless, the young and the experienced alike gathered for the first event of the morning at 10:30. With kerosene-like blood dripping from the teeth of the crosscut saw, seniors Eakes and Blanchard bit into the cant and were sawing air 54 seconds later. Bartelt and Wilhelm for the Juniors began

their Bunyan-esque performances for the day but the experience of the seniors told the winning tale. The next event was the bow sawing, and Henry Manning, past champion, had the honor of the first cut. However, youth and determination proved the stronger as Steve Wilhelm took first honors for the Juniors by less than one second difference. Chandler Eakes (senior) showed strength and stamina in winning the log chopping going away. No one else could come near his time.

Entering his second event for the morning, Junior Dick Bartelt showed everyone how an axe should be thrown as he won the event. Ed Setliff proved

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Manning is anchor man as the seniors come out with the victory!



Manning is anchor man as the seniors come out with the victory!

*(Continued on page 41)*





Hand over hand, and don't use your feet!

a capable hand by throwing his axe into second place for the seniors. The Freshmen and Sophomores took third and fourth respectively. Next the understudies to Jim Bowie gathered 'round to demonstrate the intricacies of knife throwing. Sophomore Barr Brooks showed everyone that the new scholastic emphasis had not bothered his woodman's skill, but Don Athearn (junior) proved that there is no substitute for Summer Camp experience as he won the event.

The last event before lunch was the rope climbing. The real winner of this event was disqualified as the zoo keepers led him back toward Durham. Undaunted, senior Harold Blanchard proved that he could sprint up a rope as well as down a cinder track. Don Athearn's 5.6 second time was not quite fast enough to beat Blanchard's 5.1 seconds up the 20-foot rope.

With the ringing of the bell, the fastest movement of the day was toward the dining hall. Henry Manning, in charge of food, had prepared a banquet for us. With Middlesex, N. C. Bar-B-Que, crisp slaw, and hot hush puppies, Henry had added a Middlesex special—boiled potatoes in the most delicious gravy any of us could remember. It was so good we could hardly stand it. But we did!

After eating and digesting our food with a little conversation, everyone trudged up to the volleyball court. Here juniors Bartelt and Wilhelm showed renewed energy as they valiantly tried to overtake the seniors' lead. Bartelt won the pole climb, followed by Joe Thomas for the seniors. Then the "big red one," Steve Wilhelm, demonstrated his skill as discus thrower and weight man for the track team as he initiated a new event, the pulpwood throwing. Eakes had eaten too much, and it showed. Carlyle Franklin, a senior, angled his way to a first in the bait casting competition.

The team of Ned Coville—Chandler Eakes showed the sophomores and juniors how a peavey works in log rolling. Meanwhile, back in the woods, senior Jeff Starnes was showing junior Bartelt and Sophomore Brooks how DBH estimation should be done. They finished in that order.

Back at the camp, the more "base" members of the group were preparing their tobacco "chews" for the following event. George Maxwell sophomores put past-champion Eakes to shame, as major



The steel rings as the sawdust flies!

*(Continued on page 43)*

# 1962 Summer Camp

by

JOHN CHARLES LEE '64

About forty boys qualified and signed up for a soothing retreat, divided between the land of the roaming redbugs and the community living center.

Everyone arrived at Hill Forest in a gay mood which was exchanged for a broom as Dr. Lammi started us on a cleanup campaign. We were finally settled in our quarters amid a flurry of dust.

Within two days we felt like seasoned foresters with our boots and John's cooking.

The firm of Bryant, Lammi, Miller took over then and away we went. We went through rain, rain, and more rain to design a map to be used for all future reference to Hill Forest by Dr. Lammi. The next week Dr. Bryant sent us out to determine the value of parts of our school forest; that is, the parts occupied by poison ivy saplings. By this time the ranks were beginning to split as to the true woodsman and the new wood technologists. Some of us, however, didn't feel at ease in either group.

Next came our contribution to research, the clearing of five acres of undesirable well developed woodland. During this period we were privileged to have the services of two excellent chain-saw operators who managed to do well if we forget about the tobacco in the field, Tom's leg, and Simpson's whole body. Fetus McCulloch, noticing the ambitions of the axemen and desiring to make his mark in the woods waded in with an "I cut, you run" attitude and that's what most of us did.

The nightly excursions went on and on and on until "The Nose" sighted in on the local medical auxiliary and from then on he was the one who showed the boys where the girls are.

And the vanilla wafers mixed with jello continued!

Upon leaving for the mountains we had still gained no respect for the nickname given by the cons of past students to Dr. Bryant. I believe we just didn't have time; however, Dr. Miller really can walk fast and he knows every oak tree along the Flat River.

Upon arriving at the mountain camp we found we were trading in two of our leaders for one in return. We soon found out that it was because of Dr. Perry's longer legs and his excellent knowledge of the limitations of the audio aid used to gather the minds of warm bodies.

We soon learned that Dr. Miller knew even the mountain weeds and the only thing that could beat him on the trails was the Tote-Goat. In his words he felt "like a goat without the tote."

Within the first week at the mountain camp, many of the fellows had shown themselves to be available to the many curvy impressions who seemed to come from everywhere. A good time was had by all concerned. The girls filled a void which was empty during most of our stay at Hill Forest.

Some of the things we would always like to remember about camp this summer are—the Black Death—Gants and Boots—Houn's imported snuff—Deputy Dawg—mapping in the rain—Page's driving—Craig—horn in the woods—rarer hamburger—girls in the parking lot—Olse—Fudd—musician by

the door—Pravvo's love for bug catching—gallons of kool-aid—the public in camping grounds—forty against two in the parking lot— 5 mph to Robbinsville—the difference in underwear—community living—hornets—conclusion.

We all learned about something and since forestry is a lot of somethings our knowledge of forestry was widened.

### **Xi Sigma Pi . . .** *Continued from page 37*

who achieves the highest scholastic average as a freshman by awarding him a cruiser's axe. The chapter also honors the graduating senior with the highest grade-point average by placing his name on a plaque in the student lounge of Kilgore Hall.

In the spring, Mu Chapter gives a picnic to all of the seniors and graduating graduate students in the School of Forestry and at the picnic presents certificates of merit to those seniors who have shown a dedicated interest and enthusiasm for the forestry profession, but who have not attained membership in Xi Sigma Pi.

### **Rolleo . . .** *Continued from page 41*

expectorations of juice were measured more than 20 feet away. Some of the spit probably went farther, but the spectators were reluctant to let us measure the increased distance.

Perhaps the most colorful events of the Rolleo were next. Fire fighting was won by junior Smokey Bear. Second was senior Al Aitken. The "fire," four cigars, one in each contestant's mouth, was attacked with back pack pumps, one on each contestant's back. The winner was the man with the shortest cigar. The rope was then brought over for the tug-of-war. When the dust had settled there were 60 exhausted students, but the 15 seniors had come through again, followed by the Sophomore Class.

The Grand Green Royal Order of the Kangaroo Court of Paul Bunyan was then in session. Students, mostly Frosh, wishing to join the Forestry Club were awarded membership after a short painless quiz, being sentenced to the pond, and paying their semester dues.

As the sun set on a beautiful day, the seniors gathered around Dr. Bryant at the edge of the pond for advice and other words of wisdom. Having decided that we would all be shoe salesmen, Dr. Bryant told us a "fish" story. Now Dr. Bryant, none of us believed that the bass in the pond was that long.

Reluctantly closing the gates to Hill Forest and to careers as Rolleo competitors, the seniors thought over past accomplishments—two overall firsts and two close seconds in four years of Rolleo competition—not too bad. Perhaps we could return in five years—.

## 1961-62 Conclave

by

J. CHANDLER EAKES, JR. '63

The Fifth Annual Association of Southern Forestry Clubs Conclave was a heart-breaker for our club. We finished in second place right on the heels of Georgia who took first. It was a real fight to the finish, but Georgia managed to slip by us with 51 points while we ended up with 42. We did manage to take more first places than any other club, but failed to follow up with enough second and third places.



State foresters display their trophies.

The Arkansas A&M Club was the host for the 1961-62 Conclave which took place on the Arkansas campus. The competing clubs were housed in the mens' dormitories, (at least that's where we were supposed to have been staying at night), and were fed at the college cafeteria. Arkansas was an excellent host; they kept everything running as smooth as silk.

The trip to Arkansas was one of the highlights for us. We left Raleigh Wednesday morning accompanied by Dr. Lammi and arrived at the Arkansas campus Thursday morning. We made the trip in the School of Forestry bus and what a trip it was. Fifty miles from Raleigh disaster struck! Our fan belt broke. But, from then on we had smooth sailing. We drove non-stop all the way except for meals, gas, and a few calls from mother nature.

Thursday afternoon was spent practicing for the big events that were to take place on Saturday. Friday, the Auburn club went with us to take a look at the Crossett Experimental Forest at Crossett, Arkansas. While we were there we visited the Yale School of Forestry Summer Camp and drove down to Louisiana just to be able to say we had been there. Over the entire trip we traveled in North and South Carolina, Georgia, Alabama, Mississippi, Arkansas, and Louisiana.

It rained all Friday afternoon, and it looked as if we were in for a rainy conclave. But, Saturday morning the sun broke through the clouds, and the conclave was held under ideal conditions.

Friday night was entertainment night. The Arkansas Forestry Club set up a temporary night club complete with dancing girls and gambling. Of course the gambling was done with play money, but that didn't discourage Jim Covington, and when the games ended he had raked the blackjack

dealer over the coals to the tune of \$12 million dollars. For this feat he received a Silva hand compass.

Saturday was the day everyone had been waiting for. Chain throwing was the first event, and Bill Craig, whose practice time was better than the winning time, got fouled up somehow and placed fourth. He made up for that later in the day as he won first place in both bow-sawing, and axe-chopping. John Smith took first in the pole classification, winning out over an old hand from Georgia. The training John received at the pole classification training session put on by the General Creosoting Company really paid off. We thought Al Roberts had the pole felling in the bag when he dropped his pole 4.2 inches from his stake. But, before it was over two other contestants came closer than that and Al came in third. Competition was stiff in the Wood Technology contest, but Jerry Mauk came in third. After Coville and Moore had beaten everyone in the cross-cut sawing, Georgia protested because the author had been pouring kerosene on the saw while they were sawing. This didn't bother Coville and Moore as they sawed again and still won. Paul Bullard came in second in the timber estimation. He was off by about 3,000 bd. ft. more than the winner. Bullard also placed second in the compass and pacing. Log rolling was handled by Coville and the author, and they tossed the old log around fast enough to take first place. Jim Covington should have had a little more glue on his feet for the log birling. There was quite a dispute over the elimination process used and Jim got "dunked" with third place.

Dr. Lammi didn't compete in any events, but was our chief photographer. He was on the spot at all times with his ready camera.

At the end of the day we had 42 points, but Georgia had 51. Clemson was third with 30. For second place we received a new McCulloch chain saw which we are now putting to plenty of use. This was the nearest to winning that our club has ever come, and next year we plan to come home with first place.



Champions Eakes and Coville roll that log.

## Forestry Club's Pulpwood Project

by

CHARLES DUCKWORTH '65

Perhaps the most important project of the Forestry Club this year was the organization and beginning of a pulpwood project. The profit from this long range endeavor is to be used to help sponsor the 1965 A. S. F. C. Conclave here at State College. Our school has been selected as host for this annual gathering of Southern Forestry Clubs. The Forestry Club hopes to be worthy of the honor of playing host to this meeting by having sufficient funds for a successful Conclave when the time arrives. Realizing the work involved in making the Conclave a great success, the club launched the project last fall to secure funds for the gathering here in the spring of '65.

The project got off to a good start, with a considerable amount of enthusiasm being put forth by the members. The club members pledged their time and energy for Saturdays and many weekday afternoons to cut, buck, and load pulpwood. Chain saws were donated by local dealers in Raleigh to supplement those belonging to the club, and the School of Forestry generously contributed to the project with the use of the school bus, a tractor, and a truck. Arrangements were made with the school to cut the pulpwood on one of the school forests free of stumpage under faculty supervision by Dr. Bryant. Actual cutting began at Schenck Forest with the trees marked for falling being selected in a controlled thinning and T. S. I. operation in different areas of the forest.

Sale of the wood was contracted to the Albemarle Paper Company (formerly the Halifax Paper Company) with the only requirement being that at least six pallets of wood be cut and ready for hauling every two weeks. This was the maximum time that the company felt it could afford to devote to an operation of this size without the risk of incurring a loss and still be able to give the club the best price for the wood. The bucked wood was loaded on to the metal pallets used by Albemarle at convenient roadside spots to facilitate winching the pallets onto their trucks for



Turn the crank and we'll roll again.

*(Continued on page 54)*

# The 1962 Logger's Brawl

by

NED COVILLE '63

The annual Logger's Brawl at Hill Forest turned out as usual to be a big success. The big event began about 6:30 with the barbeque supper. The barbeque with all the trimmings, obtained by Henry Manning, was served by Mrs. Liles and Mrs. Bryant. After everyone had stuffed themselves, word arrived that the band was beginning to warm up in the hothouse.



Barbecue and hush puppies are traditional.

Lynn Jackson and his wife (old hands at square dancing) started things off with an old fashion barn stomp. Soon, the whole camp was rocking. Dr. Perry turned out to be the life of the party. He and his wife did everything from the barn stomp to the tango.

Along about 9:30, everyone decided that they needed a breathing spell. Some wandered over to the cook shack where drinks and cake were being served. Soon, Carlyle Franklin rushed in and announced that there was a roaring fire

in the main lodge. Everyone rushed out only to find that the fire was in the fireplace. After everyone had gathered around, Al Graves broke out his guitar and suggested that we do a bit of harmonizing.

About 11:30, the group slowly began to diminish except for a few brave ones who decided that they had not had enough square dancing.

The whole evening could be best summed up by the immortal words of J. Chandler Eakes, "A good time was had by all".



It's square dancing, square dancing and more square dancing.

# The "Tar Heel Baby" Gets A Workout

by

BRAD BIGGAR '63

The Pulp and Paper seniors spend most of their senior year getting their feet wet, not just figuratively speaking, by making pulp and paper. The senior year is devoted to the detailed study and the actual doing of the production of pulp and paper.

To begin the year the class was divided into two groups, and each group went its merry way in search of the finer points, and the not so finer points of pulp making or physical testing and color matching. Each group spent half the semester making pulp and the other half color matching and running physical tests on paper and paperboard. The groups consisted of 12 men each. The pulping group worked as teams and the other group worked as individuals. The pulping group was further divided into 3 teams of 4 men each.

The pulping group, under the direction of Professor Hitchings, made three cooks each and the resulting pulp was tested for strength etc. After all 9 cooks had been made and the tests run, the results were discussed to determine what had gone wrong and, to some people's amazement, what had gone right.

The coloring group, under Doc Cook, in the meantime had identified 5 types of dyes, determined strength matches on 5 unknowns, and matched 5 samples for shade and color. The coloring course lasted  $\frac{1}{4}$  semester and was followed by Professor Landis' physical testing and fiber analysis course. At the end of half of the semester the two groups switched positions and the second half of the semester had begun.

To make sure there was enough to do, there was also Doc Cook's 8:00 class to keep everyone busy. This course is devoted to a study of pulp and paper mill machinery and calls for the knowledge obtained in three years of chemistry, chemical engineering, pulp and paper manufacturing, physics, and math. The course lasts for two semesters.

Dr. Stamm adds to the seniors' schedule a two semester Wood Chemistry course which is a study of the physical chemistry of wood and paper. The course is accompanied by a lab in which the seniors see in action the Wood Chemistry they learned in class.

Also in the first semester there is a literature survey of a research problem suggested by the faculty or industry that each senior must tackle. Throw in an elective and maybe R.O.T.C. and you have the seniors' first semester.



A few more calculations and we'll be ready to roll 'em.



By the end of the first semester the senior has begun to get a taste of the industry in a much different way than he has in previous school years or summers when he worked in a pulp and paper mill. He has for the first time really gotten his fingers into production.

As in the first semester, at the beginning of the second semester the class was divided in half, with one half starting the paper making course and the other half working on economic and management reports. Everyone takes Doc Cook's "Paper Mill Machinery" course.

Also the seniors take a "Paper Mill Management" course taught by Doc Cook. The management course consists of writing letters of application for employment, a management report and an economics report on problems which face the industry.

Professor Landis teaches a course in paper converting which is concerned with the various converting processes.

Along about Easter, the seniors make a tour of some of the nearby pulp and paper mills and related industries. The tour lasts 5 days and this year included the coast line of North Carolina and South Carolina. At the end of the tour a report is submitted on each plant visited. For many seniors this is the last time or at least the last time for several years that they will see some of the processes seen on the trip.

Somewhere mixed in this busy schedule, the seniors work in interviews and trips to interesting and interested companies.

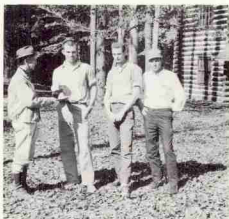
The best has been saved for last. The groups take turns working on the little paper machine under the supervision of Professor Hitchings and Ed Ruckdeschel, who do all the hard work and actual machine tending. They are split into 4 teams. One team is assigned to the stock preparation squad, another to the wet end, another to the dryer squad, and the last to the paper testing group. These groups prepare the stock, collect the samples and data during the run and calculate the results at the end of the run. Each section makes 5 runs and a variety of paper from unbleached bag to bond paper. The runs are made to match a sample from some unknown source (such as a paper from a grocery store or a sample from a mill). Each run is compared to the standard and discussed as to the whys and wherefores of the results.

All in all the senior has a very busy, challenging, and worthwhile year because each senior is doing what may not come so naturally but comes because he wants it too—that is Making Pulp and Paper.



Come on in the water's fine.

## Scholarships and Awards



Homelite Scholarships presented by Dr. W. D. Miller to (left to right) Don Zobel, Jim Hamrick, and Carlyle Franklin.



Chandler Eakes presents the Freshman Axe to Jimmy Gregory who had the highest average among the freshmen in the School of Forestry for the 1961-62 term.

Scholarships and awards play a tremendous role in helping the college student meet his financial obligation. During the 1962-63 school year, 84 students of the School of Forestry received approximately \$45,000 from scholarships and awards. The editor, on behalf of the recipients, extends sincere thanks to the companies, foundations, organizations, and individuals who make the scholarships and awards possible.

### PULP AND PAPER FOUNDATION SCHOLARSHIP

Altman, Laurice G., Jr.  
Amick, William M.  
Baird, Bennett R.  
Biggar, Francis B.  
Blevins, Ronald L.  
Broughton, Royall M., Jr.  
Brown, Robert C., Jr.  
Brown, Thomas W.  
Calloway, James L.  
Chestnutt, Robert S.  
Clark, Ernest C., Jr.  
Dowless, Victor G.  
Dunning, Charles E.  
Ford, Michael J.  
Goodman, Gale H.  
Groce, Augustus B., Jr.  
Edward P. Guerard, Jr.  
Harrison, Robert C.

Hart, Ladson F.  
Heitmann, John A., Jr.  
Hendriks, Robert V.  
Holder, Charles D., Jr.  
Holley, Richard H.  
Hoskins, Dick E.  
Jones, Larry G.  
Kear, James F.  
Lamm, John A.  
Leary, Jesse H.  
Lindsey, Alfred W.  
Major, Eugene H.  
Mizell, Ronald S.  
Oakley, George D.  
Orr, Thomas E.  
Parham, William C., III  
Parker, Homer V., III  
Prescott, Jack B.

Pritchard, John S.  
Puckett, Ralph K.  
Quesinberry, Garnett D.  
Robertson, Gerald W.  
Sanders, Harry T.  
Sawyer, Thomas W.  
Self, Jerry L.  
Simerson, Hayden C.  
Skinner, Charles D.  
Smoak, Charles R.  
South, William D.

Stroup, Thomas F.  
Taylor, Ray S.  
Thomas, Daniel W.  
Thomas, Robert A.  
Tickel, William H., Jr.  
Tomlin, Thomas A.  
Uptegrove, Raymond R.  
Webb, Joseph T.  
Williams, James V.  
Wright, Travis E.

#### CONTINENTAL CAN COMPANY SCHOLARSHIP

Blanchard, Harold C.  
Franklin, E. Carlyle  
Gregory, Jimmy D.  
Hamrick, James L.

Land, Samuel B.  
Lennon, Charles L.  
Tice, William E.  
Winston, Gregory H.  
Zobel, Donald B.

#### U. R. P. NATIONAL SCIENCE FOUNDATION GRANT

Franklin, E. Carlyle  
Gregory, Jimmy D.  
Hamrick, James L.

Holley, Daniel L.  
Land, Samuel B.  
Srago, Michael D.  
Zobel, Donald B.

#### BILTMORE WORK SCHOLARSHIP

Aitken, Alan J.  
Baldwin, George W.

Boyette, Warren G.  
Floyd, Burton R., Jr.  
McElroy, James E.

#### INDIVIDUAL SCHOLARSHIPS

Louisa County Education Association—Anderson, Harry E.  
Southeastern Division of Paper Industry Management Association—Dunshee,  
Jason H.  
French Broad River Garden Club—Gentry, Charles E.  
Col. J. W. Harrelson—Gregory, Jimmy D.  
General Scholarship—Hudson, David R.  
Southeastern Division of Paper Industry Management Association— Lee,  
John C.

#### ATHLETIC SCHOLARSHIPS

Ashby, Page Bryan  
Boughan, John R.  
Clark, Marion M.  
Faircloth, Bobby E.

Hamrick, James L.  
Mann, William C.  
Parham, Russell  
Simpson, William G.  
Wood, Roy L.

# Progress Report for 1962-1963

by

R. J. PRESTON, Dean

Growth of the School of Forestry has been rapid in recent years, reflecting the expansion of the southern wood industries and the increasing number of attractive career opportunities for technically trained men. Enrollment has more than doubled in the last decade, with graduate enrollment increasing five times. This year's enrollment of 345 undergraduates is the largest in the South and sixth largest in the country and the 37 master candidates and 18 doctor candidates place a heavy load of responsibility on a busy faculty. Since 1948 the teaching and research faculty has increased from five to twenty-six (including five joint employees) and the extension staff from three to twelve.

The School takes pride in the quality of its programs. Our faculty is distinguished and dedicated. Our students are making fine records following their graduation and are being sought by employers over an increasingly wide area. Some measure of the excellence and prestige of the School is evidenced in the amount of grants and gifts received, which last year totaled well over \$350,000. This was far in excess of the appropriated funds received.

In this era of tremendous development in science and technology, the goal of the School has been to keep its programs of instruction, research and extension abreast of current developments and to assume a position of leadership in guiding the direction and excellence of forestry education. To this end we have substantially increased the scientific emphasis in our curricula and our requirements in mathematics, chemistry and physics are considerably greater than in other forestry schools.

The close, cooperative relationship which has developed between the wood-using industries of the South and the School is unique, especially in the extent of support received in education, research and extension. We are proud of this confidence the industries have placed in us and we are convinced that this close cooperation must be developed and maintained if the School is to make its maximum contribution to the profession of forestry and to play its part in the economic development of the region.

The success of the Industry-School program in forest tree improvement under the direction of Dr. Zobel has resulted in a request from lumber, veneer, furniture, and pulp and paper companies to inaugurate a new cooperative program in hardwood management and utilization. It is planned to get this new program under way July first of this year with Bob McElwee serving as Director and Ed Jones as Associate Director. Bob Kellison will take over Bob McElwee's position as Liaison Geneticist in the tree improvement program.

The primary goal of the School has been, and must continue to be, to achieve programs of the highest order of excellence in order to be of the greatest possible service to our profession. The calibre of the faculty is of first importance in achieving such excellence and great effort has been made, and will be made, to attract and hold outstanding teachers and scientists. This year we are losing two fine members of the faculty and gaining four.

Dr. W. D. Miller, Professor of Silviculture, is retiring after 28 years of devoted service. I know that his many friends among the alumni will feel a little older on reading this and will join with those of us at the School in wishing Ted the best of everything for many years to come.



Ed Jones, Associate Director.

John L. Gray, Director of Forestry Extension, has been named Director of the School of Forestry at the University of Florida. Under John's leadership N. C. State College has developed the largest forestry extension program in the country. John is the third member of our faculty who left to become head of another school.

Peter J. Dyson came to us from the faculty of Montana State University as a graduate student in 1959. While working toward his Ph.D. degree, he has served us as an instructor and extension specialist. Upon completion of his degree this spring he was appointed Assistant Professor in Forest Economics, with his teaching responsibilities in the Department of Forest Management and his research interest in the Department of

Wood Products.

Dr. Ben A. Jayne joined our staff last September as Professor of Wood Technology. Ben received his doctorate from Yale, was a member of the staff at Washington State University, then spent a year as a post-doctoral fellow at the San Diego branch of the University of California. Ben is doing graduate teaching and research on the mechanical and rheological nature of wood.

Dr. John W. Duffield is joining our staff this summer as Professor of Silviculture to replace Dr. Miller. John received his graduate degrees from Harvard and the University of California; his background includes service with the U. S. Forest Service, the University of Washington and the Industrial Forestry Association. Dr. Duffield is currently editor of the journal, *Forest Science*.

Dr. Gene Namkoong is employed by the U. S. Forest Service and is stationed at State College where he holds a joint appointment as Assistant Professor in the Department of Genetics and the School of Forestry. Gene is a quantitative geneticist and his presence on the faculty greatly strengthens our already strong program.

Other newsworthy items concerning our faculty include:

1. R. J. Thomas, Assistant Professor of Wood Technology, is on leave of absence this year working on his doctorate at Duke.

2. Dr. Bruce Zobel was named the first recipient of the Edwin F. Conger Professorship.



Bob Kellison,  
Liaison Geneticist

Bruce now joins Dr. Kelman, Dr. Maki and Dr. Stamm as holder of an endowed professorship, as high an honor as comes to those of us in the educational world.

3. Dr. Ellwood, Dr. Stamm and Dr. Zobel served as visiting lecturers to other forestry schools under a program sponsored jointly by the National Science Foundation and the Society of American Foresters.



John Gray, new dean of the Forestry School, University of Florida.

4. The alumni-sponsored portrait of Professor George K. Slocum is nearing completion and should be formally unveiled this coming summer.

After six years of background effort, the Congress passed the McIntire-Stennis bill which enables matching funds to be appropriated for forest research for use by forestry schools of the nation. We believe that of all the legislation affecting forestry education this act is the most important in that it comes at an opportune time to provide the financial stimulus needed for improving the quality of instruction and research on a wide and substantial scale.

Finally, the status of the new forestry building is still in doubt as this *Pinetum* goes to press.

We are hopeful that by the time you are reading this annual message the issue will be favorably settled and work will be under way on our badly needed new facility.

### **Pulpwood . . . Continued from page 46**

hauling to their concentration yard. Their trucks haul three of these pallets, with each pallet holding approximately  $1\frac{1}{4}$  cords of pulpwood. Actual purchase of the wood by Albemarle is made on a weight basis with the club receiving a price of \$11 per cord.

The initial organization of the project by the club met with several changes as the work progressed last fall. By spring semester, the only difficulty involved in having a well-planned workday was rallying enough club members to come out and help fill the two-week quota. There were a few days lost due to inclement weather; at other times a lack of sufficient manpower for one reason or another slowed the production of pulpwood to a minimum.

The selection and marking of trees to be cut was handled this year by senior Butch Blanchard under Dr. Bryant's supervision. Saw maintenance was performed by David Kugler and Tom Ferrari. Senior Sam Mauk became the "head honcho" for the project and directed the work each Saturday. Sam did a tremendous job and certainly gave more than his share of time and effort toward making the project successful. Finances, expenses, returns, and co-ordination with Albemarle Paper Company was handled by senior Harold Tate. Those members chosen to rally workers from each class were

*(Continued on page 70)*

# The Hofmann Forest Report

by

J. V. HOFMANN, Manager

North Carolina Forestry Foundation

The experimental area of 80 acres set aside for studying methods of restocking Pond pine and Loblolly pine on open pocosin areas on the forest is progressing very satisfactorily. Drainage is completed, although drainage is not a factor in the study except that it is necessary in the over-all program. Burning, discing, and fertilizing are completed and planting will be done this season. Field and office records will be projects of the Agricultural Experiment Station at State College under the direction of Dr. T. E. Maki. The area selected has been open since the forest was acquired with no indications how long since timber had grown there. However, when the drainage canals were dug, about six feet deep, large stumps and roots of white cedar and pine were found at four to six foot depths. Some of this buried wood will be sent to Chicago to determine the approximate age by the Carbon Age method.

A report of all activities, costs and production of the forest, since it was acquired, is being prepared which includes methods of purchase, operation, etc.

The improvement of Block 10 is proceeding very satisfactorily. About nine miles of canal and road are completed. The plantations are to be thinned again this year. Thinning will be to a stand of 120 to 150 trees per acre which should be sufficient to allow the stand to mature into saw timber.

The entire forest is being improved with three drag lines operating. Roads and canals reach most parts of the forest. Continuous operations for another year will reach nearly all of the larger blocks with principal canals and roads.

Markets for all species of hardwood are now available, which makes possible a better silvicultural program. Areas containing hardwood will be cut to remove the hardwood unless it is in areas where it appears advisable to use hardwood in preference to pine. Species such as sweet gum, poplar, or white oak on sites suitable for them should be left, but upland hardwoods should be removed. The removal of hardwoods will improve the pine areas, and where small hardwoods remain discing or burning will be used, followed by planting.

Flat and wet hardwood areas that have been drained are better sites for pine and the practice will be to convert them.

Fires have not been serious during the past season. Rains have been frequent and extreme dry periods have not occurred. Very little burning was attempted due to unfavorable fire conditions. Cutting during the past year was less than usual, due to the wet season and labor conditions.

The C. F. I. plots show that growth on individual trees has been fair to good on all sections, although total growth is below what it should be, due to understocking. Stocking will improve naturally following drainage and additional artificial means will also be used.

## Extension Forestry

by

WALTER M. KELLER

Acting, In Charge, Forestry Extension

For the past seven years, the Extension Forestry Department has been in a constant state of turmoil with one or two men leaving to go on a year's study leave and the same number of men just returning from study-leave. This constant juggling of personnel has sometimes made it difficult to give continuity to our extension projects, but this problem is only a minor one compared to the anguish we have caused our personnel department as it attempts to keep payrolls, position numbers, sick leave, etc., records straight on this evershifting (or should I say, shiftless?) staff. Just to keep the personnel administrator from becoming complacent, we sent Bill Stanton off on study-leave this year the day before John Gilliam and J. C. Jones returned to work from their study-leave. Bill is the last member of our staff to study under the Richardson Foundation grants; so after this year we will have to think of some other way to keep life interesting for our personnel department.

John Gilliam returned to work last September after working on a Master's degree in horticulture at the University of Tennessee in the field of Christmas-tree production. J. C. Jones returned from Duke University at the same time, after working on a Master's degree in watershed management. Bill Stanton is enrolled here at N. C. State where he is working on a Master's degree in forest recreation. Bill still looks to be in pretty good shape, and I'm sure Earle Edwards and Vic Sorrell wish they could slip him back onto their football and baseball squad rosters.

Perhaps the biggest news from our department is that John Gray is leaving his position as Extension Forester and going to the University of Florida as Director of their School of Forestry. John's leaving (Bill Barker refers to it as an early retirement) will leave a big gap in forestry ranks in North Carolina. During his thirteen years as head of this department John developed what has come to be recognized as one of the outstanding extension forestry set-ups in the United States. John established himself as more than just an outstanding Extension Forester—his work has gained him national recognition and respect as an outstanding forester and has moved him into a front position among the professional forestry leaders of this country. He has contributed much to forestry in North Carolina, and his loss will be keenly felt.

Ed Jones continued his work with owners of hardwood timber along the Roanoke River bottomlands, and made several significant breakthroughs. His work was one of the major contributory factors to the establishment of a cooperative hardwood study between the School of Forestry and nine major wood-using companies. Ed and Bob McElwee will devote full time to this project starting July 1, 1963. Ed's efforts were also largely responsible for the establishment of a cooperative hardwood research study between the U. S. Army Corps of Engineers and the U. S. Forest Service. This



study will attempt to determine the effects of the operation of Kerr Dam on the growth and reproduction of the hardwoods along the Roanoke bottomlands.

Our wood products section has also been extremely active and widely traveled during this past year. This year saw the completion of a Federal Extension Service contract to develop a model wood products extension program which could be adapted to any state desiring to initiate such a program. The team of Bill Keppler, Bill Huxster and Pete Dyson worked on this project and made quite a name for themselves in the process. As the wind-up of this project, the team conducted two schools for interested states and agencies on how such a program is established and how it works. These schools were held at Athens, Georgia, and Fort Collins, Colorado, and were attended by 75 persons from 35 different states. Wood industries, trade associations, state extension services and the U. S. Forest Service had representatives at these schools. As a follow-up to these schools, we received requests from many states for these men to visit their state and act as consultants in helping to set up a wood products extension program in that state. There were more out-of-state requests than we could meet; but before the end of July, 1963, these men will have visited and helped the following states: Alabama, California, Colorado, Georgia, Kentucky, Louisiana, Massachusetts, Mississippi, Missouri, Ohio, Oregon and South Carolina.

These same three men, working along with "Dixie" Hobbs, conducted a sawmill operations course here at the college which received wide recognition for its excellence. This course was conducted upon request from the Southern Pine Association (SPA), and two key men from the sawmill industry in each of the Southeastern states were invited to attend. Eight states were represented at this meeting, and 28 individuals were in attendance.

These are only a few of the highlights in the extension forestry year which was at times hectic, frantic and often confusing—but never dull!



Back row (left to right) Bill Santon, Pete Dyson, J. C. Jones, Walt Keller, Bill Keppler, Bill Huxster, Ed Jones, Fred Whitfield.  
Front row (left to right) Dixie Hobbs, Mrs. Inez Tucker, Ross Douglas, John Gray, Mrs. Billie Thomas, Leonard Hampton.

# Mexican Collection Trip

by

R. L. McELWEE<sup>1</sup>

In November and December, 1962, a collection trip to Mexico was sponsored by North Carolina State College and six industries which participate in the N. C. State-Industry Forest Tree Improvement Program. The trip had a fourfold purpose which was as follows:

1. To collect seed from those Mexican Pine species which offer promise for commercial use on adverse sites where native species do not grow satisfactorily or where pines do not grow indigenously. An example of the first situation is the slash pine "poop-out" areas on deep sands in Georgia and Florida. The second is exemplified by the Cumberland Plateau Region of East Tennessee.

2. To collect wood samples for an extensive study of the wood qualities of the Mexican pines. Little information is available on the variation of wood properties of these species. Wood samples taken will be used to obtain an indication of the amount of variation present in specific gravity, tracheid length, and cross-sectional cell characteristics of diameter and wall thickness.

3. To obtain vegetative (twig, bud, and needle) samples of the Mexican pines for studying the speciation and evolutionary aspects of these species. The taxonomy of the Mexican pines is confusing because of the large amount of inter-hybridization of the species. Various writers have classified the Mexican pines in different ways from the 18 species and 17 varieties of Shaw to Martinez' 37 species, 19 varieties and 9 forms. Such divergence is indicative of the confusing speciation aspects of these pines. Samples obtained will be used to attempt clarification from a speciation and evolutionary standpoint. Cytological studies will be made in an attempt to clarify the species patterns.

4. To solidify relationships with various Mexican agencies and individuals to insure a future source of seed. Many regions of the world are interested in seed from these species for their forestry operations. In the past it has been difficult to obtain seed from Mexico. It is hoped that as a result of this trip supplies of seed will be assured in the future.

Organization of the trip called for two three-man teams to work independently of each other. Such a division allowed twice as much area to be covered and maintenance of efficient-sized collection teams. One of these teams collected in the forested regions of the Sierra Madre Oriental, the eastern mountain range traversing North-South in Eastern Mexico. Personnel of this team were D. E. Cole, Continental Can Co., Inc., Savannah, Georgia; E. H. Hinkle, Union Bag-Camp Paper Corporation, Savannah, Georgia; and L. C. Saylor, N. C. State College, Raleigh. The personnel of the second team were J. H. Hill, Hiwassee Land Co., Bowaters Southern Paper Corporation, Calhoun, Tennessee; Vernon J. Knight, Kimberly-Clark Corporation, Coosa Division, Coosa Pines, Alabama; and R. L. McElwee, N. C. State College. This team collected in the Sierra Madre Occidental—the western mountain

<sup>1</sup> Liaison Geneticist—N. C. State College

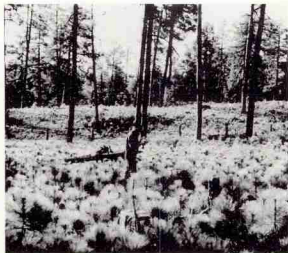
range which is the southern extension of our own Sierras. Both teams met the third week of the trip and worked in the Great Cross Ranges—the East-West mountain chain which crosses Mexico in the south. Two additional companies, West Virginia Pulp & Paper Company and Champion Papers, Inc., participated in the trip but did not send personnel.

The trip was organized so that two Mexican Nationals accompanied each team. One of these, a representative from the Instituto Nacional de Investigaciones Forestales, assisted in location and identification of species from which collections were made. The other, a senior forestry student, served as interpreter and helped with collection and classification. Labor for climbing, gathering cones, etc. was either hired as needed, or, in some instances, was furnished by various governmental and industrial organizations.

Seed collections from 128 trees of fifteen Mexican species were made and will be tested in several places throughout the Southeast on a uniform planting design. Approximately 42,000 cones were collected from the fifteen species. Where possible, collections were made from several localities for a given species to sample the regional variation for the species. All cones were kept separate by individual tree and seed extraction and outplanting will keep the individual tree identity. In addition to the seed collections, two 10mm. increment core samples were taken from each tree for wood analysis, and both black-and-white and color photo records were made of individual trees, stands, and herbarium collections.

More than 7,000 miles were travelled in eight Mexican states to obtain the material. The altitudes in which the stands were located varies from 4500 to 12,000 feet. Soils varied from sand to volcanic ash, and rainfall of the areas varied from less than 15 inches to over 60 inches annually.

As opportunity arose, observations were made on the silvicultural and management aspects of Mexican forestry. With the varied climatic conditions, many different management policies are being followed. On the whole, Mexican forestry was found to be quite good, much better than one might expect because of the remoteness and large distances between forestry operations. The



Heavy natural reproduction of *Pinus arizonica*—six years old. Mesa del Hurrac'a'n, Chihuahua.

forested lands of Mexico are owned by the government, and franchises are held from the government by various industrial enterprises. On the trip,

(Continued on page 70)

# “Where do we stand now—where do we go from here in forest entomology in the South?”

by

M. H. FARRIER<sup>1</sup>

Where do we stand now? We are not really standing; awakening would be much more accurate. Where are we going now? We are going to work.

Foresters are awakening to the losses that can be caused by insects and diseases of trees. At present two species of trees in North Carolina are threatened with extinction or at least reduction from dominance because of accidentally introduced foreign forest insects and diseases. The balsam woolly aphid attacking Fraser fir on the higher elevations in western North Carolina will remove this species from its dominant position. The European elm bark beetle is carrying the Dutch elm disease in central North Carolina. Unprotected elms will be gone in a few years.

Fire is destructive, but it is not as destructive as injurious insects or diseases in our forests. Fire has received more publicity than insects or diseases because publicity can help prevent forest fires.

Preventing or minimizing insect injury in the forest by proper management is called silvicultural control of insects. Silvicultural control is usually more effective and less expensive than direct control measures after the injurious insect has become rampant.

Schimitscheck, a German forest entomologist, listed 14 causes of forest susceptibility to insects and diseases in 1956. All were silvicultural “errors” except dust, smoke, and water pollution. Some management practices listed as “errors” were monoculture, “unnatural” mixtures, planting species on unsuitable sites, planting out of the optimal range, large-scale clear-cutting, destruction of litter, impoverishment of beneficial insect fauna by removing plants on which secondary hosts depend. If these “errors” are committed, we are going to have to pay the price. The price need not be to suffer heavy losses at the “claws” of injurious insects. The price of research to know how to fight them most effectively and economically, the price of keeping alert for outbreaks, the price of having the injurious insects identified, and the price of watching for possible insects introduced from foreign lands (either intentionally or unintentionally) these prices must be paid.

Where are we going now?

We are going to work, gleaning information from experiences of others.



Silvicultural control by removing high-risk trees effectively controls bark-beetles attacking ponderosa pine.

<sup>1</sup> Forest Entomologist, North Carolina State College.

As a nation, the United States is not first in experience with forest insects. Germany and German-speaking countries have had the longest experience controlling destructive forest insects. One of the best journals written in English concerning forest entomology is the *Canadian Entomologist*. The formation of the Southern Forest Disease and Insect Research Council, increased the interest of universities in research, and the newly-constructed Forest Biology Laboratories will produce some of the much-needed information about forest insects in the South.

We are going to work, teaching as effectively as possible what we *now* believe are the best fundamentals of forest entomology. Most forestry undergraduates take only one course in entomology. For most, this one course must provide the basic background and understanding that the graduate forester will call upon for the rest of his life. The burden on the instructor is heavy—very heavy.

What should be the objectives of such a course?

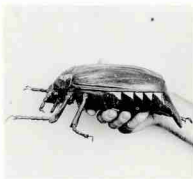
The student must be taught, as far as his ability allows, to recognize as friend or foe, insects which he may encounter in the forest. Unless the forester is able to firmly dismiss many as unimportant he will have many nagging doubts. At last count there were over 600,000 species of insects. Forests are one of the richest sources of species.

The student cannot be taught each and every one but he can be taught to recognize most of the orders and many of the common families of insects. Most insects may be dismissed with merely their recognition. Less than one per cent of the species are destructive from man's viewpoint.

Ability to recognize the common species of insects potentially injurious to southern trees and the injuries and means of control of these insects will enable some positive decisions.

The student must immediately know what can or cannot be done for the economically important insects attacking trees and look up or ask for advice and help for those of lesser importance.

There is no substitute for specimens to use in teaching students. Keeping ahead of 40 to 60 students, each breaking up 50 to 100 kinds of insects per semester would be a full-time job just collecting and preparing the specimens! Fortunately, an insect collection prepared during forestry summer camp by each student can furnish such study materials with the additional experience for the student of seeing the insects alive in their natural habitats. If the



The long tail of a European May beetle is unlike any already in the United States. If accidentally (or intentionally) introduced, the larva would be expected to be very destructive in our forests.

(Continued on page 71)

## The Leningrad Order of Lenin Forest Technical Academy

by

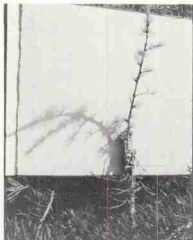
CARLYLE FRANKLIN '63

Founded in 1803, the Kirov Forest Technical Academy is one of the oldest and largest schools of forestry in the U. S. S. R. I had the opportunity to visit the academy last summer while participating in the USA-USSR Student exchange program sponsored by the National Student Council of YM-YWCA's.

We had a tight schedule in Leningrad so I asked our guide, an English literature and language student from the University of Moscow, for permission to leave the group for a day to visit the Academy. He agreed, so having located the Academy on a map, I started walking. It was only about a mile, and it was easier to walk than to figure out which trolley to catch! I had hardly any ability in the Russian language which was a great handicap to say the least.

I approached the main campus through a large park which was very beautiful in mid-summer. I saw many familiar species, and was grateful to notice the labels on the trees were in Latin. Having made no previous arrangements at the academy, I did not know who to look for, so I figured I would go to the head man. I found a student in the park and with some difficulty in communication asked him to take me to the director. This he did, and to my great fortune, the director spoke some English. I learned that he had been acquainted with the late Professor Sigard Johnson, formally at State. It was a small world after all! The director is a wood chemist, conducting research on the properties of lignin.

At first he thought I wanted to enroll at the academy but I assured him that this was not my intention. After an interesting conversation, he sent for a graduate student who was proficient in English. This graduate student served as my guide for the morning. We found a professor of silviculture with whom I talked through my interpreter for about an hour. I learned that much of their research is similar to what we are doing. They had work underway in seedbed preparation, artificial planting and seeding. They were particularly interested in developing improved machines for site preparation and for planting. They were working on one which would prepare the site and plant the seedling



*Larix* sp. grafted on a *Pinus sylvestris* stock. The graft is three years old.

in one operation. The English name for the machine that he pointed out in the translator's dictionary was "Rogue." Their work with fertilizers is as yet not conclusive. They are much more interested in natural nutrition of the soil.

When I asked this silviculturist if they did any work in forest genetics, he said yes, that they did do some but that this was not his interest. "I work with environment, not genetics," he explained. He went on to give several reasons why he felt that the environment was universally more important than heredity. In work with drainage to improve site index, particularly in the area of Leningrad, he explained that the poorest sites had been made into the best sites. A second example he gave to support his argument concerned provenance test which they had conducted in which trees of the same species were brought in and grown under controlled conditions. At first great differences were seen in growth rate, volume increment, etc., but at age 50 no difference could be noted. This he said is conclusive evidence of the great importance of environment and the relative unimportance of heredity. They are establishing orchards for seed production, but without regard to controlled pollination. The silviculturist said that in this program they were interested only in environmental aspects as they affect the tree. My interpreter who was a student in botany explained (in English, of course) that he disagreed with this silviculturist's point of view concerning the relation of heredity to environment.

In the afternoon I had a woman guide who was a genetics teacher. Unfortunately she spoke Russian and German only, so again communication was a problem. She showed me the greenhouses and experimental areas in the arboretum. I saw that most of the work was with grafting and vegetative propagation. They are especially fond of inter-species grafts, many of which I saw were quite vigorous. Almost all of the stocks were *Pinus sylvestris*. Grafted to these were *Larix sp.*, *Pinus strobus*, *Pinus pumila*, *Picea pungens* and others. I could not understand the purpose of these tests; it seemed that they were just trying to see what would work. In the January 1963 issue of the Journal of Forestry (Vol 61 #1 p. 12). Ronald Lanner sheds more light on some theories that underlie biological work in the Soviet Union.

The Academy has 6 "faculties" or departments: the forest faculty (forest management), the forest mechanical faculty (forest engineering), the faculty of mechanical technology of wood, the chemical engineering faculty, the economic engineering faculty (industrial engineering). All students are on

(Continued on page 71)

A thousand miles from Leningrad, in southern Ukraine, women hoe the weeds from a plantation planted last spring.



# New Forest Soils Program

by

C. B. DAVEY<sup>1</sup>

"Upward and onward" says the old adage and any forester who has tried this approach to the practice of silviculture has usually ended up with a stubbed toe or a sore shin. Therefore, it seems worthwhile to cast an occasional glance downward while cruising the timber. This approach is also somewhat dangerous because when one looks downward he is confronted by that stuff underfoot which is called "soil". Of course it is quite possible to ignore the soil and go on with the work and this is what very often happens. However, sooner-or-later the forester must come to the realization that the ground beneath him does more than simply provide a spot for the tree to grow on and for the logger to stand on while harvesting the tree. The forester who continually ignores the soil is in danger of producing unnecessarily inferior forest products.

As the basic and applied sciences which are directly related to silviculture (e.g., genetics, plant physiology, soils) advance, it becomes increasingly clear that we can practice silviculture as a science rather than as an art. Therefore, the more these underlying sciences are encouraged and supported (i.e., \$\$), the better chance we have of increasing the quality and quantity of our forest products while simultaneously improving the stability and productive capacity of the land.

During the past year a new program of teaching and research in forest soils was established at the School. As has been done previously in the pro-



Pine trees and fungi grow in sterile cultures using plastic bead matrix.

grams in forest pathology and forest entomology, the forest soils program was established in the department of the major discipline; in this case in the Department of Soil Science. A new course in forest soils is expected to be offered in the spring of '64 to supplement the required basic course in soils. The primary objective of the new course will be to relate silviculture to the site upon which it is to be practiced. The research phase of the program is primarily devoted to the study of those soil factors

which influence nutrient uptake and subsequent growth of the tree. Some emphasis is also being placed on the relation between soil characteristics and the susceptibility of trees to soil-borne diseases. In this case, two departments (Plant Pathology and Soil Science) are joining forces in the in-

*(Continued on page 72)*

<sup>1</sup> Forest Soils Specialist, North Carolina State College.



# The Pulp and Paper Foundation—A Significant Investment in the Future of the South

by

ERIC L. ELLWOOD

Department Head  
Wood Science and Technology

## *The Beginnings*

Some measure of the importance to the south of the pulp and paper industry—the nation's 5th largest industry—can be gauged from the fact that 60% of the nation's pulpwood is produced and processed in the southern region.

And 10 years ago there was no institution in the south offering training in pulp and paper science and technology.

In 1952 the initiative was taken by Dean R. J. Preston and Mr. R. B. Robertson, Sr., then President of the Champion Paper and Paper Technology at North Carolina State College. Following meetings between representatives from industry and North Carolina State College, five companies namely, Champion Paper and Fiber Company, Brunswick Pulp and Paper Company, Camp Manufacturing Company, Buckeye Cellulose Corporation and the Union Bag and Paper Corporation pledged their financial support of a Pulp and Paper School. At the same time, the Southern Regional Education Board recognized North Carolina State College as the approved institution in the south to offer undergraduate instruction in Pulp and Paper Technology. This meant, in effect, that industry support could be concentrated to develop one superior pulp and paper program in contrast to perhaps several inadequate programs. Another result of the agreement was that the states of Kentucky, Tennessee, Texas and Virginia would pay the tuition differential for their students who wished to study Pulp and Paper Technology at North Carolina State College.

From these beginnings industry representatives voted in 1954 to incorporate the Pulp and Paper Foundation as a non-profit organization to aid and promote education and research in pulp and paper at North Carolina State College.

The history of the development of the pulp and paper program from that time has been impressive. From the initial 5 supporting companies who contributed \$4500 the Pulp and Paper Foundation, Inc. membership has grown to 17 primary members, (i.e. pulp and paper producers), 37 associate members (i.e. suppliers to the pulp and paper industry), 5 contributing Foundations and 101 individual members who contributed a total of \$65,500 in 1961-62.

## *Operation of the Foundation*

The Pulp and Paper Foundation, Inc. operates under a President and Vice President with committees responsible to the Board of Directors. The various standing Committees which depict the scope of the Foundation activities are (1) Executive, (2) Investment, (3) Scholarship, (4) Student Recruitment, (5) Curriculum, (6) Membership, (7) Student Summer Employment.

The fact that the officers and the standing committee members are outstanding industry executives and technical men who have already crowded schedules, attests to the interest and importance of the program to these individuals.

Once a year a full meeting of the Foundation is held at which time the standing committees report their progress to the Board of Directors. As one example of committee activity, the Scholarship Committee is responsible for defining selection criteria selection of scholarship winners and the amount of the individual scholarship to be awarded.

At present, selection criteria include academic performance in high school, evidence of leadership, and financial need. Scholarships vary from \$300 to \$1000 per annum and normally the larger awards are made to out-of-state students because of the higher cost of education to them.

Because quality of the man is of primary importance, the Foundation and Forestry School has put the greatest emphasis on inducing the brightest group of high school graduates to enter the industry. Consequently more than half of the Foundation's funds have been applied to scholarship funds as one inducement in the face of what may appear to be the more glamorous pursuits of space technology and the like. Freshmen for 1962-63 were given 22 scholarships making a total of fifty-four students in the program receiving scholarships.

The remainder of the Foundation funds are used for staff salary supplements, recruitment, equipment, and administration costs.

#### *The Dividends*

The first student graduated from the program in 1953 and hopefully, approximately 20 students will graduate in 1963. To date, 88 students have graduated from the program and all with one exception, (apart from those undertaking their military service obligations have entered the industry. Eight recent graduates have gone on for graduate study at the Appleton Institute of Paper Chemistry, Harvard, Chapel Hill, and at North Carolina State College.

More than 80 percent of the graduates entered the school from southern states and are now employed by the southern pulp and paper industrial complex. The annual pilgrimage of industry recruiting officers to the Robertson Laboratory continues unabated. There are also signs that the northern mills are beginning to enter the North Carolina State College pulp and paper student market. It is all too apparent that even now, the demand for pulp and paper graduates is not being met. This demand is also reflected in the fact that starting salary offers for graduates from this program are as high or higher than for any other program on the campus.

Concurrently with the development of Foundation activities, the work of organizing the teaching program and obtaining plant facilities began. In 1952 Professor C. E. Libby, formerly Department Head of Pulp and Paper Manufacturing at New York State College of Forestry joined North Carolina State College to head the new program. Subsequently the state legislature provided \$427,000 for a new laboratory building and equipment and the first classes were taught in the new building in the fall of 1956. As a tribute to the pioneering work of Mr. R. B. Robertson, the new laboratory was dedicated in his name.

*(Continued on page 72)*

## Biltmore Forest School Carries on at North Carolina State College

The Biltmore Forest School, organized in 1898 by Dr. Carl Alwin Schenck in the heart of the North Carolina mountains, was the first forestry school in the new world. This twelve month course was opened to men who wanted to fit themselves for employment by lumbermen and owners of forest land. It was based on the then radical conviction that "forestry pays" and that private enterprise should play the major role in the development of the profession. Discontinued shortly before the first World War, the Biltmore Forest School has continued to be a vital force in American forestry through the distinguished records of its several hundred alumni.

In 1952, on his last trip to the United States, North Carolina State College conferred the honorary degree Doctor of Forest Science on Dr. Schenck. On this occasion Dr. Schenck stated that he looked upon this School of Forestry as a continuation of his pioneering school. This event kindled the interest of several prominent Biltmore alumni and friends and through their enthusiasm and efforts the Biltmore tradition has become firmly associated with the School of Forestry at North Carolina State College.

In 1955, largely through the efforts of Mr. George W. Merck, eighteen admirers of Dr. Schenck contributed funds to establish the endowed Carl Alwin Schenck Distinguished Professorship of Forest Management. This professorship is currently held by Dr. T. E. Maki, head of the School's Department of Forest Management.

Following the death of Dr. Schenck in 1955, there was a keen desire to establish a memorial forest in his honor. The efforts of Mr. E. F. Conger (Biltmore class of 1910) resulted in approval by the Trustees of the University in renaming the Richlands Creek School Forest, and through the generosity of Mr. E. F. Conger, Mr. Carl F. Rehnberg and Mr. George W. Merck a permanent endowment fund was established. On April 26, 1957, the Carl Alwin Schenck Memorial Forest was dedicated. Located four miles west of Raleigh in beautiful rolling Piedmont country, this 250-acre pine forest constitutes a memorial area most fitting for the great pioneer it honors. Dr. Schenck's ashes are scattered here among the trees he loved.

In 1958 a third major tie with the Biltmore School was completed with the endowment of the Biltmore Scholarships. This permanent memorial will assure that each year the Biltmore spirit and name will live on in the four selected students who should be among the future leaders in the profession of forestry. In appreciation to the four men contributing this \$30,000 endowment, the four Biltmore Scholarships are designated in the name of the donors: Mr. E. F. Conger, Mr. George W. Merck, Mr. Carl F. Rehnberg, and Mr. Verne Rhoades.

The fourth tie between the forestry schools, past and present, was the establishment of the Biltmore Library Collection at the School of Forestry. With the bestowal of his permanent library to North Carolina State College, Dr. Schenck started a collection that has grown to impressive proportions. The Forest History Foundation in Minnesota has turned over to this collection the Schenck papers on file there. Alumni have also turned over their Biltmore Records until a comprehensive collection of Biltmore history

*(Continued on page 73)*

## Random Thoughts from a New Typewriter

Editors note . . . .

Miss Ann Law, who recently resigned from the forest genetics staff to begin a new job in Turkey (of all places) was trying out a new typewriter one day and recorded for posterity (this was not her intention) a marvelous bit of humor. Although she is an accomplished cartoonist, Miss Law left before we could enlist her services to illustrate her writing. So we prevailed upon Mr. Tom Bentley (N.E. Junior) for the illustrations. He captures the mood nicely.

In selecting loblolly trees (*Pinus taeda* L.) for use in commercial seed orchards, it is good to get a tree with some leaves on it. Those without never graft as well, and tend to give the whole business a barren (sp.) look. Be sure that the bole has plenty of bark and that it is of a light brown hue. Loblollies with a crooked trunk are out. Period. Make certain that they are as straight as a die, with all branches exactly the same diameter and length.

Any squirrels found in the orchard should be well fed and provided with a place to leave their acorns, preferably in the bole of a large pine. It has occasionally occurred that acorns left in pine trees have sprouted, their roots extending down through the trunk inside the tree, and you end up with an oak growing inside a pine. Fancy that.

In conifers, wood formed on the underside of squirrels is characterized by tracheids and hair which are circular in cross section, have larger-than-normal follicles, have springwood tracheids thicker-walled than normal, with tracheids fuzzier than those found in "normal" (get that) wood; and squirrel wool has an unusual amount of shrinkage.

There is a man in our town, and he is marvelous wise,  
He jumped into a bramble-bush and scratched out both his eyes  
The rest of this escapes me.

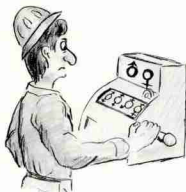
According to Pillow & Blanket (1962) it causes considerable loss of yield and quality.



In conifers, wood formed on the underside of branches and fumaroles of leaning volcanic regions is characterized by tracheids with a sulphurous, fetid stench.

We know now that "inherent" twist is rather strongly controlled genetically. Actually, genetics is easy once you get used to using those funny little symbols that stand for male and female.

Twist or corkscrew growth should not be confused with spiral grain. Spiral grain involves an orientation of the fibers away from the vertical and can occur in straight trees as well as not-so-straight, or bended, trees. This whole business is enough to make the average forester lose his mind. This is typed with the lowest touch setting. This has gone far enough, in all respects.



**Pulpwood . . . Continued from page 54**

as follows: seniors, Jerry Mauk; juniors, Burnie Moore; sophomores, Charles Duckworth; freshman, Bill Wade.

The overall effort from October until the planned cutoff of April 1 did fall short of initial expectations. Organization of the project into a smooth operation was developed only through a tremendous amount of hard work through trial and error by a relatively small percentage of the club members. Experience in using chain saws and devising the most efficient and easy method of getting the wood out to the roadside and loaded on the pallets took much time and effort.

A continuation of the pulpwood project is already planned for the coming year with the hopes of having plenty of interest and desire for making it a highly successful endeavor.

Although final returns for this past year's sales have not been received as of this writing, a net profit of over \$300 will be added to the club treasury for this year's operation. This is a notable contribution toward hosting the 1965 A. S. F. C. Conclave, and it is hoped that interest next fall will be great enough to raise this figure to a larger amount when the project is renewed. A continued supply of trees has been provided by the school. All that is needed now is physical support of the club members which is necessary to perform the back-breaking job of cutting pulpwood.

**Mexico . . . Continued from page 59**

lands were visited which were being operated by sawtimber, pulp and paper, turpentine industries, and state and federal governmental organizations. Management of the industrial forest franchises is always under governmental regulation and federal foresters assigned to work with each specific organization constantly inspect the industrial operations.

Management and operations of the commercial forest lands of Mexico are in some respects similar and in others quite different from those found in this country. All operations visited relied on natural regeneration, which was more than adequate in most of the areas, especially in the western mountains. Several nurseries are maintained, but seedlings raised are for "give away," to be used as ornamentals. No commercial planting was practiced in any of the areas visited.

Very little thinning is being done. Most areas are either clear-cut, with seeding from the sides, or are cut to a heavy shelterwood, with later removal of the trees that are left. Fire is a constant threat from lightning storms, and all tops are cut and piled as a fire protection measure.

Logging is expensive in the mountainous areas. Road building is a large part of any forestry operation. American-built trucks are being used in hauling, but skidding is done mainly with oxen. Very few tractor operations were seen. Little distinction was made between species for particular products. In most areas visited, two or three species made up the major part of the volume, with several more present in minor amounts. These several species are all logged together and used for the particular end product, be it lumber, pulp, or plywood. The only exception seen was the preference for certain species by those organizations which are primarily interested in turpentine.

The success of the collection trip is largely due to the fine cooperation and aid received from many organizations and individuals. We are particularly indebted to Dr. M. A. Huberman, Latin American Forestry Advisor, FAO, Mexico City, personnel of the Instituto Nacional de Investigaciones Forestales, and the Comision Forestal del Estado de Michoacan. In addition, the fine cooperation and hospitality of many Mexican industrial forest operations and their personnel aided immensely in the successful conclusion of the collection trip.

**Entomology . . .** *Continued from page 61*

collection is given a partial grade on its condition, a remarkably large number of insects come through the semester intact!

Undergraduates attending N. C. State, if interested in the "bug" aspects of forestry are offered an additional course beyond the beginning course. In the South, only Mississippi State and North Carolina State list in their catalogues a second course in entomology for undergraduates in forestry.

Lastly, we are going to work conducting research—be it basic or applied. There is a generality that knowledge, on the average, is increasing at an exponential rate. If one segment of knowledge falls behind this exponential rate, placing money for research in that segment should bring big breakthroughs. Our methods of controlling bark beetles in pines are basically those developed by A. D. Hopkins just after the turn of the century. We have to go back to 1921 for most recommendations for controlling scale insects on ornamental trees. A little money for research in forest entomology in the South ought to go a long way.

**Leningrad . . .** *Continued from page 63*

5-year programs leading to what would be approximately a masters' degree in the U. S. I say this because each student conducts a research project before graduating, and has studied a foreign language. The best students begin in their freshman year; the poorer students begin later on their research projects. Reports are submitted on these projects prerequisite to graduation. Under the guidance of the director all students receive instruction in the following fields: 1) Dialectual and historical materialism, 2) The history of the Communist Party of the Soviet Union, 3) Political economy, 4) Russian language, 5) Physical training and sports.

There are many student organizations on campus including a research society with some 900 members, the Academy Club which is analogous to our College Union, intramural and inter-university sports teams, a student newspaper *Lesnaya Pravda (Forestry Truth)* which is one of the oldest student newspapers in the Soviet Union. The editorial office of the paper sponsors a student literary circle for young poets and writers.

My hosts at the Academy were most gracious and went out of their way to see that I saw as much as possible in such a short time. The director gave me a picture album published by the students which contains pictures of Russian landscape and forests, and a Russian-English edition of the bulletin of the Academy. As a final gesture of hospitality I was presented with a beautiful bouquet of flowers which were grown on the campus.

**Soils . . . Continued from page 64**

vestigations. Finally, current and proposed forest nursery practices, which may favorably or unfavorably affect the quality of seedlings, are being studied with an eye toward developing new or improved practices which will either improve stock quality or increase the efficiency of stock production.

Although the program is less than one year old it is beginning to take shape. One visiting professor was with us for six months of sabbatical leave. Currently, Chris Tabor, '59 (back from the Navy) is working toward his M.S. and is involved in a study of the value of several post-harvest root dips in increasing the survival and early growth of seedlings in the field. Also involved in research with us this year is Don Zobel, '64 who is a recipient of a National Science Foundation grant for Undergraduate Research Participation (known locally as "urp"—the grant that is, not Don).

Hopefully, in the years to come, the program in forest soils will fill a need in providing training and information in one of the several allied fields which seem to be demanding ever-increasing attention from the practicing forester.

**Pulp Foundation . . . Continued from page 66**

In 1961 Professor Libby retired and Professor R. G. Hitchings was appointed In Charge of the Pulp and Paper curriculum which together with the Wood Technology curriculum constituted the newly reorganized Department of Wood Science and Technology.

*What of the Future*

The pulp and paper industry is one of the outstanding growth industries in the nation with production approximately doubling in the last 16 years. Some observers forecast a doubling of per capita paper consumption over the next 40 years. This, then, points to the magnitude of the task ahead to cope with the demand in both quality and quantity of graduates. At the present time the curriculum is anything but easy and will of necessity gain in rigor in the future. But for the able student who is willing to take up the challenge the rewards can be great.

As of the present time the Pulp and Paper Foundation is to be congratulated for the financial support, effort and time which it has devoted towards aiding in the development of a program which is rapidly becoming a highly significant factor in the progress of the southern pulp and paper industry.



**Biltmore . . .** *Continued from page 67*

has been brought together. More than seventy Biltmore alumni and friends have contributed over \$5,000 to furnish the Biltmore Room to permanently house these records in the projected new forestry building.

The most recent binding tie was a magnificent gift from Mr. E. F. Conger. The School of Forestry and two institutions in Staunton, Virginia, were named as beneficiaries of a gift of some 3,500 acres of timberland valued at \$225,000, near Aiken, South Carolina. Proceeds from the sale of "Conger Woods" permitted the establishment of the endowed Edwin F. Conger Distinguished Professorship in Forestry on July 1, 1962, with Dr. Bruce J. Zobel, an internationally recognized forest geneticist, as the first recipient.

With the completion of the sale of "Conger Woods" in early 1963, the balance of the two-fifths portion coming to the School of Forestry has endowed several Conger Scholarships. Priority in awarding these scholarships will be given to students from Virginia. Long a staunch supporter of the School of Forestry, Mr. Conger has been a member of the School's Advisory Committee and a key figure in all of the Biltmore projects binding the two schools together.

Not only will these six major programs help to perpetuate the proud Biltmore record of achievement but they will continue the Biltmore School as a vital force in American forestry through permanently strengthening the quality of the educational program by assuring top quality scientists on the faculty and students with the potential for leadership in the profession.

# Treasurer's Report

1961-1962

## INCOME

184 members @ \$3.00	\$552.00
Contributions Hofmann Portrait	51.00
Contributions Slocum Fund	248.00
	<u>\$851.00</u>

## EXPENSE

Postage, envelopes, letter and PINETUM	\$ 78.58
Secretarial help	30.00
184 copies of PINETUM @ \$1.32 each	242.88
	<u>\$351.46</u>

Memberships	\$552.00
Costs	351.46
Balance	<u>\$200.54</u> to Slocum Fund

## STATEMENT OF ACCOUNTS

A. Slocum Fund	
Previous Balance	\$683.73
Contributions	248.00
Balance from above	200.00
	<u>1132.27</u>
To Scholarships	300.00
Balance	<u>\$832.27</u>
B. Hofmann Loan Fund	\$2,500.00
C. Hofmann Portrait this date	\$ 51.00
Final payment	51.00
Balance	<u>.00</u>

## Alumni Section



Amy Alexander Cooper, granddaughter of William E. Cooper, Class of '32.



George K. Brown, Class of 30, Assistant Regional Forester, USFS, Milwaukee, Wisconsin.



William R. Ball's (Class of '61) oldest son Alton (2½), his German Shepard, "King" (8 mon.), and Alton's pet 'Coon, "Clem", (3 mon).



Albert H. Maxwell, Class of '32, on the occasion of the 30th reunion of that Class in May, 1962.



Family of Douglas T. House, Class of '47; (back row) Kirk and Jane Waring (front row) Walter and Elizabeth.

# Alumni News

1930

- BROWN, George K., Asst. Regional Forester, N. Central Region, USFS, Milwaukee, Wisconsin.  
"Sure am proud of N. C. State progress." Ed. note (George seems to be doing mighty well, too).
- GRAEBER, R. W., Consulting Forester and Operator-Owner of Guilwake Forests.
- HOWARD, H. E., Personnel Management Specialist, U. S. Forest Service.  
"I still have the same status and responsibilities even though I did acquire a new official title."
- MORRIS, Donald J., Chief, Timber Management Planning, Forest Service, USDA.  
"Henry Posey is trying to get up a group of '30 pictures. I'm still trying to get my gang together to make one. Regards."

1931

- ARTMAN, J. O., Reports Editor, Tennessee Valley Authority, Forestry Division.  
"The job is the same, but the title is a little more descriptive of what I do. Henry Posey tells me he is collecting pictures of the class of 1930 for the PINETUM. Hope he has good luck. Now who will volunteer to do the same for the class of 1932?"
- CARTWRIGHT, James B., Forester, Cooperative Fire Control, USFS, Region 8.  
Ed. note (Jim was in Kinston for the So. Fire Compact meeting and did a fine job).
- LOUGHEAD, Harvey J., Consulting Forester, Self-Employed.

1932

- COOPER, William E., Executive Director, Virginia Forests, Inc.  
"Enclosed is a snapshot of my second and youngest granddaughter. Now don't get the captions mixed up with her picture as was the case with my first grandchild's photo."
- GRUMBINE, A. A., Assistant Regional Forester, USDA, Forest Service.
- MAXWELL, Albert H., Pest Control Project Forester, N. C. Div. of Forestry.  
"At 30th Reunion—Class of '32, Raleigh, N. C."
- TILLMAN, P. W., Asst. State Forester, N. C. Dept. of Cons. & Development.

1933

- HAFER, A. B., Consulting Forester, Self-Employed.
- RILEY, Madison M., Forester, Planters Mfg. Co. Division, American Package Corp.

1934

- CORPENING, B. H., District Forester, N. C. Dept. of Cons. & Dev., Div. of Forestry.
- CROW, A. Bigler, Associate Professor of Forestry, School of Forestry, Louisiana State University.
- LEDBETTER, F. H., District Forester, N. C. Dept. of Cons. & Dev., Div. of Forestry.
- PROUT, Carrow T., Jr., Woodland Conservationist (Western States) USDA.

1935

- DOUGLASS, O. R., Manager, Piedmont Forest Farms, The Mead Corporation.  
"See you in Atlanta, I hope?"
- GARDNER, Thomas B., Personnel Officer, Soil Conservation Service, USDA.
- HOOD, William W., Forester, Military Dept., State of Florida (Camp Blanding).  
"The developments and accomplishments of N. C. State School of Forestry have been such that we old grads are mighty proud to be associated with *THE LEADING* Forestry School in the Country!"
- JACKSON, Gorham Eddie, Consulting Forester, Self-Employed.  
"It was my privilege and pleasure to take my family on a trip to the west coast this summer. We visited with Len Dearborn and his good family in Flagstaff, Arizona. This was our first visit since we left State in 1935. He has a fine family and is enjoying his work. We checked on the big trees on the west coast and found out they are really as big as we had heard they were. We also visited with "Gramp" Slocum in Janesville, Wisconsin. Work is underway on the George Slocum portrait. I am sure that all the old grads will like to have a part in the expense of this portrait. Margaret and Inez join me in sending our best regards to all the old grads, the faculty and friends of the Forestry School at N. C. State College."
- PIPPIN, James A., District Forester, N. C. Department of Conservation & Development.  
"Still planting trees. Have Ross Moore (class of '61) and Whitley Collier ('60) attached to our office at present."

1936

- AIKEN, W. C., Woodland Conservationist, Soil Cons. Service, USDA.  
"Was favorably impressed with the Alumni that came to the SAF in Atlanta. I was alarmed at being the 5th class to stand up—it made me seem older than I am. Will try to get you something later on the picture project."
- HUDSON, Seaman, Foreign Division, Container Corporation of America.  
"Pulpwood development and logging in South America. Very interesting, challenging, and frustrating."

1937

- BRIDGES, William J., Jr., Director of Woodlands, Union Bag—Camp Paper Corp.  
"Things are going nicely with our Company—Six children spread from first grade to college—long pull ahead."
- DAVIS, J. W., Director, N. C. Ports Authority.  
DAVIS, Paul L., Manager, The L. N. Davis Co.
- GERLOCK, Arnil J., Real Estate Broker, Self-Employed.  
"Time goes faster. My family means more and more to me. Practicing a little forestry on the homestead. Having beaver trouble—need suggestions on how to get rid of the pests. Best regards to all."
- HOWERTON, T. M., Jr., Self-Employed—Consultant, materials, construction.  
"Two boys in college, another next year."
- WHEELER, W. H., Jr., Land and Timber Agent, Carolina Power and Light Company.  
"With Doc Miller's retirement, the professors responsible for the "brilliant" class of 1937 are now all retired with honors—a fine group of men."

1938

- HUBBARD, James B., Administrative Forester, N. C. Forest Service.  
"I have reached the grandfather class! That makes me much too old for news items or remarks." Ed. note (Jim helped with a fire school for our sophomores—was a good show)
- WATTS, N. B., Director of Student Housing, N. C. State College.  
"Class of 1938 holds its 25th anniversary this year. Hope each member will attend."

1939

- BARKER, J. S., Jr., Forester-Superintendent, Timberlands Division, Corbett Package Co., Corbett Lumber Corp.  
"I saw foresters and classmates at SAF meeting in Atlanta that I had not seen in 23 years—they certainly have aged a lot."

1940

- HARLEY, Ben R., General Manager, Turnell & Morgan Pulpwood Dealers  
LEE, Ralph K., Forest Appraiser, Equitable Life Assurance Society.  
NEGRO, John F., Soil Conservationist, U. S. D. A.

1941

- MC IVER, John E., District Supervisor, International Paper Co.  
"Moved to Georgetown in July 1962."
- SPIKER, Col. Theodore F., Commanding Officer Marine Barracks, Clarksville Base.

1942

- HOFMANN, J. G., Project Forester, Halifax Paper Co.  
"Family fine—growing in size both physically and numberwise. Latest count 2 boys, 4 girls."
- LEYSATH, Elwin F., County Forester, State of Vermont.  
"James E. Hobbs, '42 and I visited the Black Forest in Germany this fall."
- PRUITT, Austin A., District Manager, Champion Papers, Inc.  
"Man, these twenty years have really flown by."
- TURNER, J. T., Manager, Converting Division, St. Marys Kraft Corp.

1943

- ETHERIDGE, Jim N., Pulpwood, Weyerhaeuser Company.  
Ed. note (See Jim frequently during the summer on the coast—and envy him his new fishing cruiser!)

1944

1945

1946

1947

- HARDEE, Jay H., Agricultural Advisor, Agency for International Development.  
HODUL, Norman P., Teacher, Driver Education and Ind. Arts, Sachem High School, Lake Ronkonkoma, New York.  
HOUSE, Douglas T., Pulpwood Dealer.

1948

- BLACKSTOCK, Clarence E., Forester, USFS.  
"I married Miss Joanne Reitz on June 2, 1962, at College Park, Maryland."
- FRANKLIN, B. D., Instructor, Civil Eng. Dept., A & M College of Texas.  
"We spent the summer in Big Bend National Park, Texas, with a party of college students, surveying for construction. We had a ball—most fascinating place. Best time to visit BBNP is in winter. Mountains, junipers, springs, horseback trails—wonderful after driving 150 miles through the desert. Mountain hotel at 5400'—better bring a blanket. Regards to all."
- ICARD, Thomas F., Attorney at law, Firm of Icard, Merrill, Cullis & Timm.  
"President, Sarasota County Bar Association, 1962."
- SOLOW, Robert I., General Manager, Allegheny Lumber Co.  
"Family status still stands: 1 wife, 2 sons, 1 daughter. Will try to have some pictures for next year's issue. At the rate my boys are growing, we'll have a member for State's football team, and one for their basketball team in about 8 years."

ZUCKERMAN, B. M., Assoc. Professor, University of Massachusetts.  
"On sabbatical leave at present--Dept. of Plant Pathology, Institute of Agriculture, Rehovot, Israel."

1949

ALTMAN, James A., Forest Engineer, American Pulpwood Association.  
GEDDES, R. B., Asst. District Forester, Management, Virginia Div. of Forestry.  
GEDDES, Wilbur H., Geophysicist, Head Airborne Surveys, U. S. Navy Oceanographic Office.  
HORNE, R. L., Lumber Inspector, Southern Pine Inspection Bureau.  
NONEMAN, Robert L., General Manager, Rome Charcoal Corp.  
SALZMAN, Franklin, Personnel Officer, Washington Office, USFS.  
"The more I bump into Staters, the more I begin to appreciate the impact of Slocum."  
WILSON, A. D., Forester, Wytheville Sub-District, Virginia Div. of Forestry.  
WOODS, Frank W., Asst. Professor of Silviculture, Duke University.  
Ed. note (Frank gave a fine seminar here at State in the fall).  
YANCEY, T. E., Assistant District Forester, Forest Fire Control, Va. Div. of Forestry.

1950

APPLEBY, Phillip E., Captain, USAF  
CAVANAUGH, Martyn J., District Manager, Champion Papers Inc.  
HARE, R. J., Wood Procurement Supt., Halifax Paper Co.  
LAMPE, John G., Manager, Quality Control Dept., Poinsett Lumber & Manufacturing Co.  
PADGETT, James R., District Ranger, Leaf River Ranger District, USFS  
"Happy to report the Forest Service is beginning to use wood again as well as to grow wood."  
PASCHAL, William J., Partner, Paschal Lumber Co.  
PIERCE, William L., District Fire Chief, Virginia Div. of Forestry.  
RHYNE, Thomas S., Jr., Regional Forester, N. C. Forest Service  
Ed. note (Tom helped with a very good fire school during summer camp).  
SMITH, Major Herbert H., Student, U. S. Army Command & General Staff College.  
"During October through December 1961, I was with a 1st. Inf. Div. Taskforce in Tarryall forest in Colorado and as I was among the first in and the first out was disappointed not to find any N. C. State graduates there. My best to Doc Miller."  
TUTTLE, Marion A., Captain, USAF  
WARD, Melvin F., Forest Technician, International Paper Company  
WWILLIS, Thomas L., Sales Representative, Epes-Fitzgerald Paper Co.

1951

COUSINS, Charles, Plant Manager, Lea Lumber and Plywood Corp.  
"Still trying to make white, unwarped playwood out of stained black gum logs. Please give my regards to the staff."  
ETCHISON, Philip B., Forester, Branch of Lands, Forest Service, USDA.  
ESTEP, Eldon M., Forest Products Technologist, Pacific Northwest Forest & Range Experiment Station, USFS.  
"It is good to hear that things are really looking up for the School of Forestry. The school is well-known and respected even here in the far reaches of the U. S."  
GREENWOOD, Leonard D., Grove Supervisor, Alico Land Development Co.  
REID, James R., Jr., Prospecting Engineer, Superior Stone Company.  
SHILLING, Robert E., Uqit Forester, International Paper Co.  
SKAARUP, Allen F., Plant Engineer, Western Electric Co.  
"Best regards to the gang!"

1952

CRAMER, Lloyd Arthur, President, Lowe-Cramer Veneer Company.  
CROOK, James D., Jr., Asst. Forest Engineer, Hiwassee Land Company.  
JACKSON, John V., District Fire Chief, Virginia Division of Forestry.  
HUGHES, Samuel M., Conservation Forester, Riegel Paper Corp., Pulp & Paperboard Div.  
"Same job, same place and no particular complaints about either."  
PERONI, George, Teacher, Forestry Dept., Paul Smith's College.  
"Still teaching and enjoying same."  
ROSS, Vincent R., Partner, Ross, Neff Associates.  
"I had never realized the strong reputation our School of Forestry enjoyed until we formed our present business. It makes one proud to be a member of the Alumni."

1953

ADAMS, Philip W., Asst. Chief Reviewing Appraiser, Federal Land Bank of Columbia.  
DORWARD, R. E., Nurseryman, Hiwassee Land Company.  
"The family grows--now 2 girls, 1 boy."  
WELCH, M. E. "Ernie", Consulting Forester & Real Estate Broker, Self-employed.

1954

ANDERSON, H. J., Cooperative Forester, Halifax Paper Co.  
Ed. note (Jim stops by school frequently and is busy selling better management to as many people as will listen).  
ARNOLD, Thurston W., District Forester, N. C. Div., Weyerhaeuser Co.  
"No large or small changes."  
BARRETT, James P., Asst. Professor of Forestry, Univ. of New Hampshire.  
"Got married and have a daughter. This is my first year of teaching and I'm really working hard."

**BRYAN, Mackay B.**, Forestry Advisor, AID, Philippines.

"The family and I have spent a very interesting and enjoyable year in the Philippines. Our two daughters have returned to the States to attend college at Stetson Univ. in Florida. We are making fair progress on the forest inventory of the Philippines, with the organization now functioning moderately well, and the field work more than half done in Mindanao."

**DERRO, Joseph J., Jr.**, Science Teacher, Pentucket Regional School, West Newbury, Mass.

"Have taken on some Biology classes this year in addition to General Science and Earth Science. The Biology brings back old memories of courses at State such as Dendrology, Botany, and Prof. Slocum's famous Wood Structure course. Am making tentative plans for marriage next summer, which is rather earth-shaking news, for me at least. Best regards to all."

**LALICH, Branislav**, Firestone Plantation Co., Harbel, Liberia.

**LANE, Edward B., Jr.**, Assistant District Manager, Champion Papers, Inc.

"A 5 lb. 10 oz. bundle of joy arrived on Oct. 28. Her name is Angela Lee and though she is mighty small, I hear she's supposed to grow. Our work is mostly marking pulpwood. We plan to move over 500 cds. a week next year, plus sawtimber. I see Jim Barker quite often; he's now a consultant, and is working out of Elberton, Ga. Hunting season is in full swing, and game is plentiful. Come down and let's go hunting."

**NICHOLSON, John E.**, Asst. District Forester, N. C. Forest Service.

"Still in Chapel Hill and doing the same."

**SEWELL, Carl S.**, Area Forester, St. Marys Kraft Corp.

**WRIGHT, Ernest B., Jr.**, Resource Asst., Skagit Dist., Mt. Baker National Forest, USFS.

#### 1955

**CHAPMAN, John F.**, Forester, St. Joe N. F., USFS.

**COBB, Fields W., Jr.**, Temp. Instructor, Dept. Botany & Plant Path., Penn. State Univ.

"Our family, including 2 young'uns, is fine. I am, finally on the last stages of the thesis but surely wish I could hear of a good job."

**FLOWERS, E. D.**, Forester, Land Dept., Woodlands Div., Union Bag-Camp Paper Corp.

**HARDY, P. L., Jr.**, Consultant & Wood Dealer, Self-employed.

"No change."

**MOULTHROP, Grayden B.**, Salesman, Ohio Representative, Union Bag-Camp Paper Corp.

**PURDY, Clifford J.**, President, Purdy Timber Company, Inc.

**RAND, Leroy F.**, Wood Technologist, Florida Furniture Industries, Inc.

#### 1956

**CARSON, Paul B., Jr.**, Camden District Forester, S. C. State Commission of Forestry

**DOZIER, William B.**, Consulting Forester, Self-employed.

**KILIAN, Leonard A., Jr.**, District Forester, Whiteville District, N. C. Div. of Forestry.

"We are expecting number two in February."

**SWIFT, John G.**, Forester, Virginia Division of Forestry.

**WEBB, James E., Jr.**, Training & Safety Officer, U. S. Forest Service.

"We were transferred from Atlanta to Alaska last June. Quite a change! Very interesting country, people and job. Family status remains unchanged with wife, 2 blonde daughters and one Dachshund. Mush, y'all!"

#### 1957

**BUTLER, Gordon L., Jr.**, Forester, Coosa River Newsprint Div. of Kimberly Clark Corp.

"Peggy and boys are doing fine. Brian is now 5 and Steve is 3."

**GIBBS, George S.**, Asst. District Ranger, USDA Forest Service.

"Will be in Raleigh Homecoming week-end if nothing happens. Will try to see you then." Ed. note (He did! N.w. has two sons, David 5, and Donald 15½ months).

**PICKENHEIM, Paul J.**, Representative, The F. A. Bartlett Tree Expert Co.

**STEVENSON, James C.**, Special Development Training Program, Chase Manhattan Bank.

**STEVENS, Wilbur R.**, Asst. Area Manager, Riegel Paper Corporation.

**WEBB, Charles D.**, Research Forester, Southeastern Forest Experiment Station.

"Our tax deduction—Sharon Elizabeth—arrived on September 23. Just started to work here in Macon with John Barber in tree improvement. It feels good to get out of school for a change."

#### 1958

**DeCOSTE, John H.**, Agriculturist & Transportation Officer, U. S. Rubber Co.

"I will finish my three-year tour (Kisaran, Sumatra, Indonesia) in April and be back in the States by the end of June. I expect to visit Japan on my way. I don't plan to come back again and so I will be job hunting. I'll have a six-months vacation in the States, which I plan to spend having a look at the States mixed in with a little hunting and fishing. We have two polomino horses now and my nickname has been changed from "Abie" to "Cowboy" DeCoste. If any of you need an explanation let me know."

**EARLE, Ted, Jr.**, Asst. Area Manager, Southland Timber Corp.

**HILBOURN, Ted**, Research Forester, Weyerhaeuser Co., N. C. Division.

"Have been very busy but enjoying it all . . . my best to everyone."

**HILLS, Charles C.**, Consulting Forester, Self-employed.

"We've moved to Holy Hill, S. C. where business is good. I haven't had time to attend any meetings lately, but would sure like to see any of the fellows that pass this way."

**O'QUINN, Charles**, Timber Dealer, Self-employed.

**PRICE, Thomas L.**, District Ranger, USFS.

"Jennette and I now have two children; Tommy born just after leaving N. C. State and Margaret, age 2, born here in Oxford. Have been trying to arrange a trip that way but haven't been able to so far."

ROBERTS, James P., Investment Broker, Baker, Weeks and Co.  
SIMMONS, Robert C., Project forester, S. C. State Commission of Forestry.

1959

BROWN, John A., Testing Director, Research Dept., Drexel Furniture Co.  
"Married to Elizabeth T. Worthen of Spruce Pine, N. C. on Sept. 29, 1962 in Central Baptist Church in Spruce Pine."  
GLASS, Phillip D., Assistant District Ranger, USFS.  
GREGG, Stewart W., Area Forester, West Virginia Pulp and Paper Company.  
"Most of my work so far has been concentrated on making timber resource surveys of our southern Pennsylvania Wood Procurement area. Timber volumes in this general area are 90-95% hardwood. Our company as well as our competitors are discovering that quality fine printing papers require about 30-35% pine pulp."  
LUPOLD, Hugh M., Consulting Forester, Milliken Forestry Company.  
"Married, enjoy work very much, doing a lot of bottomland hardwood management and management plan work in western N. C."  
Scanlon, David H., III, Botanical Research Dept., Firestone Plantations Co., Harbel, Liberia, West Africa.  
"Work primarily concerned with the stimulation of latex yield and bark renewal by the application of phenoxycetic compounds, also work in chemical weed control. The hunting and fishing continues to be good."  
STURGILL, Jack C., Procurement Forester, West Virginia Pulp & Paper Co., Luke Md. Mill.  
"Changed jobs last Sept. Don't see many NCS foresters up this way . . . most from W. Va. & Penn." State.  
SUMMERVILLE, Kenneth O., Research Asst., School of Forestry, N. C. State College.  
WELCH, Richard V., Working Circle Forester, Union Bag-Camp Paper Corp.  
"Our boy was born Oct. 21. It was too bad about the bond issue, but here's hoping for a new building in the near future. The Prof. Slocum portrait is a fine idea."  
Ed. note (Had a fine visit from Welch in the winter).

1960

BANNER, W. T., 300 Queens Road, Sanford, N. C. Ed. Note (Banner is just out of military service—dropped by School to say hello).  
BELT, George H., Jr., Research Assistant, School of Forestry, Duke University.  
"Virginia Helen Belt descended upon us on the ninth of February. Mother and child are fine; father is still recovering. This of course is our big news this year. I'm currently enrolled in a D. F. program at Duke University in the area of Forest Fire and Forest Meteorology. Hope to complete all but my dissertation requirement by June '64."  
BRAKE, Robert, Area Forester, Chesapeake Corporation of Virginia.  
BRINKLEY, Charles W., Clerk-typist, U. S. Army.  
"Serving 18 months with U. S. Army in France . . . I plan to tour most of Western Europe next summer hoping to see what type of forestry practices are in use."  
BYERLY, R. D., Forest Manager, Georgia Kraft Company.  
"Still hard at work; hello to everyone."  
CARRIGAN, William C., Area Forester, Chesapeake Corporation of Virginia.  
"Birth of a daughter, Sarah Fairbanks, on September 8, 1962."  
CAWTHORNE, Wallace G., Area Representative, Halifax Paper Co.  
Ed. note (Wally has been helping the Forestry Club move pulpwood from the Schenck Forest to help finance our future Conclave).  
COLLIER, Talmadge W., Asst. Dist. Forester, N. C. State Forest Service.  
FOUST, Gene R., Sales Service Tech., Borden Chem. Co.  
"Covering Fla., Southern Ga. and Southern Ala. Certainly interested in PINETUM and keeping in touch with School."  
HELMS, Guy "Alex", Asst. Purchasing Agent, Moore's Super Stores, Inc.  
"Buying plumbing and heating for 15 branch stores in Va., Md., Pa., and Conn."  
IRVIN, Tom, Industrial Salesman, Franklin Blue Company.  
"Expecting our first baby in Dec. 1962. I hope to visit N. C. State sometime the first of 1963. Hope to attend machinery show in Greensboro in April, may see some of you then."  
McNATT, J. Dobbin, Forest Products Technologist, U. S. Forest Products Laboratory.  
"Saw some of the Forestry School staff when in Raleigh last June. Am enjoying work at the Forest Products Lab. Wisconsin winters much colder than N. C. It was 33 below zero here on March 1. Summers are wonderful, lots of swimming, boating and camping. Still not married."  
McMINN, Jim, Research Forester, Southeastern Forest Experiment Station.  
ROSE, Patrick C., Forester, Virginia Division of Forestry.  
SELDEN, Charles W., III, Procurement Officer, USAF.  
"After putting it off for a year I finally got the knot tied on Dec. 22. After my tour of duty in the Air Force maybe I will come back to State for a Ph.D. Got my Masters at the University of Florida last June."  
WALLINGER, R. Spot, Ensign, USNR, Navigator.  
"Just completed a 5-month cruise to the Med, and made head of the ship's navigation department. Currently steaming around our island neighbor to the southeast. Should spend the winter in Philadelphia in the shipyard if the international situation permits. Took leave in Spain and spent some time looking at Spanish forestry with a classmate from Yale. They have some interesting problems and methods centering around the management of beech and silver r in the Pyrenees. The countryside in Northern Spain was extremely beautiful!" Ed. note (Scott stopped by School and seemed hale and hearty).



BAKER, J. O., Jr., Lt., U. S. Army.

"David Richard Baker arrived October 5, 1962. I'm keeping busy helping catch crooks, AWOL's, etc. Hope I don't run into any of my classmates who might be law-breakers! Lynette and I enjoy our Army life but are looking forward to getting out."

BALL, William Roy, District Forester, Armstrong Cork Company.

"Very happily employed, family consists of one wife, 2 boys, one dog and one raccoon (same but he bites). Tell the boys that habits formed in college are apt to continue after graduation, so form good ones and be proud of your profession—it is a good and a rewarding one and I might add that you can also make a living at it!"

BLIZZARD, Donald D., District Forester, Armstrong Cork Company.

CUNINGHAM, Henry, Jr., Dare County Forester, N. C. State Forest Service.

GRIMSLEY, Daniel L., Forester, U. S. F. S.

GURGANUS, Clyde (Mitch), Asst. Ranger Watauga R. D., USFS.

"After my six months with Uncle Sam at Ft. Dix, I was reassigned to the Watauga District, Cherokee N. F. and my wife and I like the Forest Service fine . . . at a training meeting in Fontana Village I met six fellow graduates."

JEFFRIES, Kenneth, Essex County Forester, Virginia Division of Forestry.

"Now have two little 'Karos'."

KENRALL, Worth A., Lt. U. S. Army.

"Currently student pilot at U. S. Army Aviation School at Ft. Rucker, Ala. Leaving for tour in Germany in January. Married to Miss Anne Wall on March 25, 1962 at North Augusta, S. C."

LANGSTON, Edward H., Lt., Executive Officer, U. S. Army.

McPherson, John P., Real Estate Broker, Self-employed.

MACE, Samuel V., U. S. Army Security Agency.

"After 10 months of preliminary training (plus acquiring a wife) I am on my way to Asmara, Eritrea which is a small town on the East Coast of Africa. Will be back in the 'Kentucky Woods' in two years."

MILLER, Robert W., U. S. Army Security Agency, Accounting Specialist.

"Currently serving a 2-year tour in Frankfurt, Germany."

NICHOLS, Lyle A., Lt. U. S. Army.

PRICE, Albert L., Student Naval Aviator, Ensign, USNR.

SWIFT, Lloyd W., Jr., Research Forester, Coweeta Hydrologic Lab., SEFES, USFS.

"Enjoy meeting the coming group of foresters each summer when they tour Coweeta. The faces I recognize get fewer every year."

SYKES, Paul W., Jr., Ensign, USNR, on active duty.

"Presently on a 6-month deployment (Oct. 1962-Feb. 1963) in the Mediterranean with the U. S. Sixth Fleet, aboard the USS Shenandoah (AD-26). The ship is in Naples, Italy most of the time. I ran across Scott Wallinger at Little Creek, Va. back in early spring where each of us was attending a naval school. My regards to all."

TALLI, Abder Rahim, Graduate Student, College of Forestry, Syracuse University.

TYSON, Robert L., Jr., Forester, N. C. Forest Service.

WELLS, Garland Ray, Instructor of Forestry, Louisiana Polytechnic Institute.

WOLFE, Jared D., Asst. District Forester, Maryland Dept. of Forests and Parks.

"I am going with the Forest Service in May. My wife and I have one daughter, Brenda Lynne, who is 15 months old."

## 1962

CAUTHORN, H. Starke, III, Lt., USAF, Personnel Officer.

COMSTOCK, Gilbert L., Forest Products Technologist, U. S. Forest Products Laboratory.

CRAIG, William S., U. S. Marine Corps.

Ed. note, (Bill was a big help in running Rolloe this year, and hopes to be out soon).

ECK, Thomas, Engineer, Union Bag-Camp Paper Corp.

"Bought a new Austin Henley rather than getting married. Advise classmates to do the same."

FOSTER, Ronald Fred, Forester, USFS, Ozark-St. Francis National Forest.

"My work is primarily with hardwoods. It is very interesting and challenging."

HARRICK, Bruce, Forester, Deschutes N. F., USFS.

"Hello to everyone."

JUBENVILLE, Alan, Graduate Student, Div. of Forestry, West Va. University.

"My research will be done in black cherry."

REID, James E., Forester, U. S. F. S.

"Plan to tie the knot in June. Like my work very well."

SHRENI, Suresh C. D., 25 East 21st Street, Brooklyn 26, New York.

TURNER, John H., Forester, USFS, Kaibab N. F.

## Alumni Directory

### Class of 1930

W. B. Barnes	6149 Primrose Ave., Indianapolis 20, Ind.
C. A. Bittinger	Deceased
G. K. Brown	710 N. 6th St., Milwaukee, Wis.
E. R. Chance	Deceased
T. C. Evans, MS '31	276 Cumberland Ave., Asheville, N. C.
R. W. Graeber	303 Hillcrest Rd., Raleigh, N. C.
N. R. Harding	Ga. Kraft Co., Director Wood Procurement, Rt. 5, Rome, Ga.

S. G. Hile	Deceased
H. E. Howard	Apt. A-1003, River House, 1111 Army-Navy Dr., Arlington 2, Va.
J. N. Leader	Bedford, Pennsylvania
D. Y. Lenhart	W. Va. Pulp & Paper Co., 210 Park Ave., New York 17, N. Y.
D. J. Morris	6957 Fort Foote Rd., Washington 23, D. C.
R. L. Pierce, MS '31	851 Scott St., Stroudsburg, Penn.
H. G. Posey, MS '50	Dept. of Forestry, Auburn Univ., Auburn, Ala.
H. A. Snyder	Deceased
J. W. Walters	Point Pleasant, Pennsylvania
F. F. Weight	40 Jackson Ave., Middleton, N. Y.
C. B. Zizelman	500 E. Broad St., Tamaqua, Penn.

#### Class of 1931

N. B. Alter	Chattahoochee Nat's Forest, Gainesville, Ga.
H. E. Altman	26 Mississippi Ave., Silver Springs, Md.
J. O. Artman	110 Hilltop Lane, Norris, Tenn.
G. W. Barner	Deceased
J. A. Brunn	2804 Chaffin Ave., New York, N. Y.
W. T. Buhrman	5001 Kenwood Ave., Baltimore 6, Md.
J. B. Cartwright	11 Dartmouth Ave., Avondale Estates, Atlanta, Ga.
H. A. Foreman	Marshalls Creek, Penn.
D. B. Griffin	Box 605, Front Royal, Va.
H. J. Loughhead	399 Vanderbilt Rd., Biltmore Station, Asheville, N. C.
C. F. Phelps	204 Lakewood Dr., Richmond 29, Va.
C. H. Shafer	1233 Lehigh St., Allentown, Penn.
G. K. Slocum, MS '32	Deceased
W. B. Ward	15 School Lane, Springfield, Penn.

#### Class of 1932

W. E. Cooper	301 E. Franklin St., Richmond 19, Va.
A. A. Grumbine	411 Carriage Dr., N.E., Atlanta 5, Ga.
J. J. Kerst	Box 77, Vicksburg, Miss.
A. H. Maxwell	305 Tate St., Morganton, N. C.
F. J. Miller	1234 Brooks Ave., Raleigh, N. C.
C. G. Royer	106 Penn Ave., Watsontown, Penn.
G. K. Schaeffer	1612 Springbrook Dr., Decatur, Ga.
P. W. Tillman	2632 St. Mary's St., Raleigh, N. C.
W. H. Warriner	U. S. Forest Service, Jackson, Miss.
Luther Williams	Box 229, RFD 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, Ala.
A. B. Hafer	Consulting Forester, Box 655, Laurinburg, N. C.
O. W. Pettigrew	Route 5, Raleigh, N. C.
M. W. Riley	Box 370, Portsmouth, Va.
R. J. Seitz	825 Jackson St., Gastonia, N. C.
A. L. Setser	5358 Tally Drive, Chamblee, Ga.
R. A. Wood	18 Buckingham Court, Asheville, N. C.

#### Class of 1934

W. J. Barker	112 Strode Circle, Clemson, S. C.
E. E. Chatfield	Rt. 6, Laurel, Miss.
B. H. Corpening	152 Shelburne Rd., Asheville, N. C. (N. C. Div. For.)
A. B. Crow	Assoc. Prof., School of Forestry, Louisiana State University, Baton Rouge 3, La.
F. A. Doerrie	Box 4136, Baytown, Texas
L. B. Hairr	Box 112, Marion, N. C.
F. H. Hube	1151 W. 20th St., Laurel, Miss.
F. H. Ledbetter	Box 594, Lenoir, N. C.
D. C. Plaster	111 Fox St., Morganton, N. C.
C. T. Prout	2180 Milvia St., Berkeley, Cal. (SCS)
A. G. Shugart	Yadkinville, N. C.
W. R. Smith	72 Hibriten Dr., Asheville, N. C.

#### Class of 1935

H. F. Bishop	Woodland Ave., Marion, S. C.
W. E. Boykin	Box 267, Lillington, N. C.
C. W. Comfort	USFS, Gulfport, Miss.
F. J. Casabator	State Univ. of N. Y., College of Forestry, Syracuse 10, N. Y.
L. S. Dearborn	Rt. 1, Box 84, Flagstaff, Arizona
O. R. Douglas	Box 1626, Station A, Anderson, S. C. (Mead Corp.)
J. D. Findlay	5148 15th St., N., Arlington 4, Va.
T. B. Gardiner	4223 12th Rd., S., Arlington 4, Va. (SCS)
J. B. Graves	403 Court St., Talladega, Ala.
F. A. Hodnett	Box 535, Dublin, Va.
W. W. Hood	Camp Blanding, Starke, Florida (State Fla.)
G. E. Jackson	604 West Main St., Washington, N. C. (Consultant)

B. K. Kaler	Soil Conservation Service, Norwich, N. Y.
J. W. Miller	Asst. Prof. of Forestry, Univ., Fla., Gainesville, Fla.
F. N. Newnham	USFS, Regional Office, Atlanta, Ga.
H. W. Oliver	Princeton, N. C.
R. H. Page, Jr.	P. O. Box 2570, Asheville, N. C.
J. A. Pippin	Box 664, Rockingham, N. C.
E. G. Roberts	Mississippi State College, State College, Miss.
M. W. Shugart	SCS, Halifax, N. C.
J. R. Spratt	Atlantic Land Improvement Co., La Belle, Fla.
J. M. Stingley	Deceased
W. H. Stitt	Deceased
H. R. Wright	Highlands, N. C.

#### Class of 1936

A. G. Adman	2500 Uhl Court, Dayton, Ohio
W. C. Aiken	16 Edgewood, Selma, Ala. (SCS)
L. K. Andrews	950 N. Division St., Aberdeen, Wash.
O. T. Ballentine	Deceased
R. O. Bennett	Deceased
A. H. Black	200 Third Ave., Scottsdale, Penn.
H. M. Crandall	913 29th St., S. W., Birmingham, Ala.
D. C. Dixon	Dixon Tire Sales, Lancaster, S. C.
W. M. Hill	General Delivery, Thomasville, N. C.
S. K. Hudson	1400 Escambia Ave., Brewton, Ala. (Contain. Corp. Am.)
O. H. James	Wallace, N. C.
C. S. Layton	Rt. 1, Greensboro, N. C.
L. N. Massey	Carolina Power and Light Co., Raleigh, N. C.
A. D. Nease	Box 1339, St. Augustine, Fla.
P. M. Obst	Deceased
D. M. Parker	Sunbury, N. C.
C. C. Pettit	Box 936, Sylva, N. C.
C. H. Riley	Pleasant Garden, N. C.
J. L. Sewright	Deceased
M. F. Sewell	Unknown
J. H. Thurnton	1055 C St., Harrisonburg, Va.
W. H. Utley	300 Country Club Dr., New Bern, N. C.
J. S. Vaux	4520 Alabama Ave., Chattanooga 9, Tenn.
L. H. Welsh	719 Country Club Rd., Wilmington, N. C.

#### Class of 1937

W. J. Bridges, Jr.	Bluffton, S. C. (Union Bag)
Loeke Craig	c/o U. S. Consulate Officer, Belem, Brazil, South America
J. W. Davis	P. O. Box 149, Wilmington, N. C. (Director N. C. Ports Authority)
F. L. Davis	L. N. Davis Co., Drawer 630, Waynesville, N. C.
W. G. Davis	Sylva, N. C.
Henry Delpin	Unknown
J. M. Deyton	Green Mountain, N. C.
N. P. Edge	232 S. Franklin St., Rocky Mount, N. C.
C. A. Fox	Box 173, New Bern, N. C.
W. D. Gash	702 Princeton Dr., Wilmington, N. C.
A. J. Gerlock	Rt. 1, P. O. Box 137, Fairburn, Ga.
J. H. Griffin	Deceased
A. F. Hein	c/o Dr. H. Hein, James Monroe High School, Bronx, N. Y.
J. B. Heltzel	Va. Forest Service, Charlottesville, Va.
T. B. Henderson	Rt. 1, Box 115A, Williamsburg, Va.
J. W. Hendrix	Unknown
T. M. Howerton, Jr.	Buena Vista Farms, Madison, Fla. (Consultant)
E. L. Hurst	USFS, Norton, Va.
Clarke Mathewson, MS '37	Box 405, St. Mary's Ga.
C. M. Matthews	Univ. of New Hampshire, Forestry Dept., Durham, N. H.
J. A. Matthews	Box 25, Southern Pines, N. C.
Joseph Matys	Unknown
B. H. Mayfield	c/o F. D. Mayfield, 1750 Boulderview Dr., S. E., Atlanta 16, Ga.
F. D. Mayfield	1750 Boulderview Dr., S. E., Atlanta 16, Ga.
R. L. Nicholson	Unknown
H. O. Roach	Unknown
C. F. Russell	513 Nelson Dr., Jacksonville, N. C.
L. P. Spittainik	Unknown
L. W. Troxler	224 Carriher Ave., Salisbury, N. C.
J. Walsh	265 Mission Dr., Camarillo, Calif.
W. H. Wheeler, Jr.	Box 610, Wadesboro, N. C. (CPL)

#### Class of 1938

J. A. Belton	Unknown
H. C. Bragaw	Deceased
J. S. Campbell	RD 2, Sedley Rd., Franklin, Va.
W. A. Campbell	1915 Wignore St., Jacksonville Fla.
C. J. Cheslock	Unknown
W. L. Colwell, Jr.	182 Ardith Court, Orinda, Calif.

P. C. Conner	Fireston Plantations Co., Harbel, Liberia, West Africa	
M. M. Dillingham	41 Park Lane, W., Asheville, N. C.	
D. C. Dixon	Lancaster, S. C.	
R. C. Eaker	1004 Bragg St., Monroe, N. C.	
J. W. Farrior		Deceased
J. W. Findlay	902 Edgemont Circle, Gastonia, N. C.	
G. H. Floyd	116 Pittman St., Fairmont, N. C.	
W. L. Foster	W. Va. Pulp and Paper Co., Summerville, S. C.	
B. Griffin		Red Oak, N. C.
F. A. Griffiths	405 Furches St., Raleigh, N. C.	
R. M. Henry	2209 W. 35th St., Pine Bluff, Ark. (Box 580)	
L. H. Hobbs	For. Ext., School of Forestry, N. C. State College, Raleigh, N. C.	
A. J. Honeycutt, Jr.	1334 Oberlin Rd., Raleigh, N. C.	
J. B. Hubbard	3036 Churchill Rd., Raleigh, N. C. (NCFS)	
James L. Huff		Maysville, N. C.
G. W. Hunter	525 N. East St., Raleigh, N. C.	
V. V. Karefa	2303 Byrd St., Raleigh, N. C.	
H. W. Lull	Div. of Watershed Mgt., NE For. Exp. Sta., Upper Darby, Penn.	
T. J. McManis		Deceased
W. J. Marshburn	206 Surginer Rd., Rockingham, N. C.	
J. P. Moorfield		Unknown
R. M. Nelson, MF '39	c/o Robert B. Tucker, 809 Philadelphia Ave., Chambersburg, Penn.	
H. W. Ryder	11 S. Prince St., Shippensburg, Penn.	
C. B. Shimer	1509 Webb St., Raleigh, N. C.	
G. E. Smith	Drawer 504, USDA, Soil Cons. Service, Orangeburg, S. C.	
I. W. Smith		Unknown
P. L. Warlick	398 Vanderbilt Rd., Biltmore Forest, Asheville, N. C.	
N. B. Watts	Rt. 1, Box 367, Cary, N. C. (NCSC)	
J. A. Whitman	Atlantic States Forestry Co., Carthage, N. C.	
W. W. Wooden		Deceased

#### Class of 1939

G. W. Arnott		Deceased
J. B. Bailey		Unknown
W. M. Bailey		Lynn Haven, Florida
J. S. Barker, Jr.	2406 Shirely Rd., Wilmington, N. C. (Corbett Libr. Co.)	
W. L. Bessley	Bessley Lumber Products, Scotland Neck, N. C.	
A. E. Butler	2404 Glascock St., Raleigh, N. C.	
C. K. Dale		Unknown
R. L. Esterfield		Unknown
W. G. Evans		Deceased
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, Va.	
D. P. Hughes	Box 116, Colerain, N. C.	
R. S. Johnson	Southern National Bank of Lumberton, Laurinburg, N. C.	
Ted Jolley	Aren Forester, W. Va. Pulp & Paper Co., Winnsboro, S. C.	
J. V. Lyon		Unknown
H. C. Martin		Unknown
C. L. Page		White Pond, S. C.
C. H. Peterson	Johns Manville Corp., Jarratt, Va.	
H. W. Plummer, Jr.		Unknown
Chester Reed		Unknown
J. F. Reeves	1831 Leavenworth St., Manhattan, Kansas	
H. R. Rupp		Unknown
R. W. Shelley		Deceased
R. W. Slocum	1203 Maple Ave., Richmond 26, 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	Box 768, Brookhaven, Mississippi	
C. N. Wright	224 McGhee Ave., Greenwood, S. C.	
P. B. Yeager		Unknown
M. M. Young		Unknown

#### Class of 1940

J. D. Atkins		Unknown
J. L. Bell	Box 332, Davidson, N. C.	
R. W. Brake, Col.	1127 Olney Dr., San Antonio 18, Texas	
R. L. Cain		Unknown
George Chaconas		Unknown
R. E. Davis	608 Poplar St., Canton, N. C.	
W. B. Dunn	8 Central Ave., Warren, Penn.	
T. E. Gerber	444 North Wood Ave., Florence, Ala.	
W. E. Gibbins	1120 Taylor St., Corinth, Mississippi	
B. R. Harley	Box 548, Elizabethtown, N. C. (Turnell & Morgan Co.)	
B. S. Hays	Dept. of C & D, Div. of Forestry, Raleigh, N. C.	
J. W. Hilton		Deceased

S. C. Ingram, Jr. 2441 Albro Blvd., Tucson 15, Arizona  
 M. M. Kariman Unknown  
 R. M. King 2432 Mockingbird Dr., Sierra Vista, Arizona  
 C. D. Kuhns 190 White Oak St., Kutztown, Penn.  
 R. K. Lee 312 Eola Dr., Alexandria, La.  
 P. J. Lozier Box 13, Wrightstown, N. J.  
 M. A. Matson, Jr. 8813 Pinedale St., Norfolk 3, Va.  
 J. F. Needham 329 Pleyle's Lane, Chillicothe, Ohio  
 J. F. Nigro Millbrook, N. Y. (SCS)  
 A. A. Novitt 418 Hempstead Tpke., W. Hempstead, Long Island, N. Y.  
 W. E. Odom, Jr. Unknown  
 Lee Perks 54 Louisa St., Brooklyn 18, N. Y.  
 L. L. Perry Deceased  
 C. H. Peterson Johns Manville, Jarrett, Va.  
 Ernest Roberts Unknown  
 W. O. Ryburn Ryburn Farm Equipment Co., Salisbury, N. C.  
 A. W. Simmons Unknown  
 R. S. Swanson Box 462, Newton, N. C.

#### Class of 1941

P. D. Abrams Stonehedge, North Granby, Conn.  
 A. W. Brown P. O. Box 3158, Mellory Station, Memphis, Tenn. (Chapman Chem. Co.)  
 R. E. Carey Unknown  
 G. V. Chumblee Bladen Lakes State Forest, Elizabethtown, N. C.  
 P. M. Cromartie West Lumber and Box Co., P. O. Box 870, Fayetteville, N. C.  
 E. H. Ericson, Jr. Old Neck Rd., Manchester, Mass.  
 C. E. Gill 911 Gracelyn Dr., Blacksburg, Va.  
 Michael Gosal Unknown  
 B. T. Griffith 632 E. Chelsea Drive, Mobile, Ala.  
 F. J. Hartman 12701 Valleywood Dr., Silver Springs, Md.  
 T. G. Harris 421 Rightmyer Dr., Roanoke Rapids, N. C.  
 R. E. Huff 592 East Brash Rd., Ridgewood, N. J.  
 R. H. Landon Deceased  
 A. L. Jolly 710 Marion Lane, Salem, Va. (Va. Forest Service)  
 Jesse Levine Unknown  
 J. E. McIver, Jr. P. O. Box 50, Georgetown, S. C. (Int. Paper Co.)  
 W. C. Pickett 433 Ridgeway Ave., Statesville, N. C.  
 T. F. Spiker, Co. Clarksville Base, Clarksville, Tenn.  
 D. F. Traylor Box 1077, Southern Pines, N. C.  
 J. H. Wiggins, Jr. 4232 Arbutus Dr., Raleigh, N. C. (SCS)  
 S. L. Wilson 675 Camellia Circle, Florence, S. C.

#### Class of 1942

W. A. Bland Box 257, Goldsboro, N. C.  
 B. L. Cook 4814 W. Mtn. View Dr., San Diego 4, Calif.  
 W. A. Crombie Unknown  
 R. S. Douglas Box 111, Clinton, N. C.  
 Paul Gawkowski Unknown  
 J. E. Hobbs Edenton, N. C.  
 J. G. Hofmann Box 145, Roanoke Rapids, N. C. (Albemarle Paper Mfg. Co.)  
 G. M. Howe 42 Normandy Place, Roselle, N. J.  
 H. S. Katz 11 Wisner Place, Middletown, N. Y.  
 E. F. Leysath 223 Lincoln Ave., Rutland, Vermont (State of Vt.)  
 H. S. Muller, Jr. Box 122, Kinsale, Va.  
 A. E. Johnson Camenton, N. Y.  
 A. A. Pruitt, Jr. Box 283, Washington, Ga. (Champion Papers Inc.)  
 F. A. Stantapolo Dept. of Sociology, Fordham Univ., New York 58, N. Y.  
 J. T. Thurner St. Mary's, Ga. (St. Mary's Kraft Corp.)  
 F. D. Williams 1226 Salem Dr., Charlotte, N. C.

#### Class of 1943

H. L. Epstein 36 W. McKenzie, Stockton, Calif.  
 J. N. Etheridge Box 696, Plymouth, N. C. (Weyerhaeuser Co.)  
 Morris Green 756 Pelham Parkway S., Bronx, New York  
 R. B. Lutz Unknown  
 J. D. Martin Flack-Jones Lumber Co., 704 S. Main St., Summerville, S. C.  
 J. T. Maynard 407 Meeting St., Georgetown, S. C.  
 O. F. Martin 161 Ridgeland Way, NE, Atlanta, Ga.  
 W. H. Ogden 5812 Hillock Ave., Fountain City, Tenn.  
 H. D. Packard Unknown  
 E. H. Sayre Box 263, Tryon, N. C.  
 J. L. Shoub RFD 2, Saluda, S. C.  
 H. L. Terry Box 2719, Raleigh, N. C.  
 E. H. Ward 15 Anne St., Ozark, Ala.  
 J. F. Williams Windsor, N. C.  
 R. W. Wood 207 Todt Hill Rd., Staten Island, N. Y.

Class of 1944

H. M. Hinshaw ..... Unknown  
 R. A. Holcombe ..... 1619 Massachusetts Ave., N W., Washington 6, D. C.

Class of 1945

Class of 1946

J. F. Hardee ..... Route 7, Raleigh, N. C.  
 C. M. Hurtsock, Jr. .... 2706 Peachtree St., Raleigh, N. C. (NC Hwy. Comm.)  
 Henry Kazynski ..... 1907 Chestnut Ave., Trenton, N. J.  
 R. J. Robertson ..... Route 3, Salisbury, Md.  
 S. G. Spruill ..... 120 Lindbury Rd., Hueyton, Ala.  
 E. T. Sullivan ..... School of Forestry, Univ. of Fla., Gainesville, Fla.

Class of 1947

W. J. Barton ..... Union Bag-Camp Paper Corp., Homerville, Ga.  
 W. S. Campbell ..... College Park, Staunton, Va.  
 Robert Domsen ..... Unknown  
 H. J. Ellis, Jr. .... Box 17, Jarrett, Va.  
 J. H. Hardee ..... USAID, American Embassy, Santo Domingo, Dominican Republic  
 Norman P. Hodul ..... 104 Dogwood Lane, Port Jefferson, Long Island, N. Y. (H. S. Teacher)  
 D. T. House ..... Box 222, Rt. 3, Louisville, N. C.  
 J. B. Johnson ..... RFD 4, Raleigh, N. C.  
 J. C. Jones ..... For. Mgt. Ext. Spec., 260 Kilgore Hall, N. C. State College, Raleigh  
 W. M. Ke'ler ..... Head, For. Mgmt. Ext. Sect., 260 Kilgore Hall, N. C. State College, Raleigh  
 R. D. Mahone ..... 1037 Capitol Landking Rd., Williamsburg, Va.  
 C. E. Schreyer, Jr. .... 49 Sayette Rd., Scarsdale, N. Y.  
 W. L. Wharton, Jr. .... 315 Bomar Place, Springhill Station, Mobile, Ala.

Class of 1948

C. E. Blackstock, Jr. .... Sky Acres, Sierra Route, Oakhurst, Calif. (USFS)  
 R. C. Boyette ..... 171 Lindley Ave., Sumter, S. C.  
 R. N. Craven ..... Box 755 Belmont, N. C.  
 N. E. Dayvault, Major ..... Route 1, Box 153E, Triangle, Va.  
 B. D. Franklin ..... 719 Garden Acres, Bryon, Texas (Texas A & M)  
 V. W. Herlevick ..... 3627 Stratford Blvd., Wilmington, N. C.  
 W. W. Hook, Jr. .... 2109 Greenway Ave., Charlotte, N. C.  
 T. F. Icard ..... 2041 Main St., Sarasota, Fla. (Attorney)  
 S. N. McKeever ..... Spring Creek, West Virginia  
 E. N. Se'tzer ..... 135 Beech St., Concord, N. C.  
 G. W. Smith, MF '58 ..... Ricks Hall, N. C. State College, Raleigh, N. C. (Asst. Dir. Agr. Exten)  
 J. L. Smith, Jr. .... P. O. Box 158, Mountain View, Arkansas  
 R. I. Solow ..... 110 South Gate Rd., Elkins, W. Va. (Allegheny Lmbr. Co.)  
 Fred West ..... Unknown  
 B. M. Zuckerman ..... Dept. of Plant Pathology, Institute of Agriculture, Rehovot, Israel (sabbatical)

Class of 1949

V. D. Adams ..... Unknown  
 B. L. Allen ..... Albermarle Paper Manufacturing Co., Roanoke Rapids, N. C.  
 J. A. Altman ..... 651 College St., Jackson, Miss (American Pulpwood Assn)  
 R. J. Alvis ..... Watershed Mgt., Box 4137, Portland 8, Oregon (USFS)  
 G. W. Barnes ..... 415 Elm St., Raleigh, N. C.  
 J. C. Baskerville ..... Route 2, Hickory, N. C.  
 J. B. Bernard, Jr. .... Box 936, Sylva, N. C.  
 R. Q. Bishop ..... 405 Greenway Dr., Florence, S. C.  
 A. W. Boswell ..... Box 654, Battleboro, N. C.  
 S. G. Boyce, MS '51 ..... Box 760, Carbondale, Illinois  
     Ph.D '53  
 C. A. Broadway ..... Route 2, Cander, N. C.  
 E. F. Corn ..... Dist. Forester, North Carolina Forest Service, Rocky Mount, N. C.  
 A. C. Craft ..... 133 Nelson Dr., Manning, S. C.  
 T. S. Davis ..... % J. S. Davis, Troy, N. C.  
 W. C. Deaton ..... Box 311, Southern Pines, N. C.  
 G. V. Durham ..... 1204 Liberty St., Durham, N. C.  
 A. J. Edler ..... 215 Forest Rd., Fanwood, N. J.  
 G. R. Fuller ..... 311 N. Bridge St., Elkin, N. C.  
 J. H. Gandy ..... Harbel, Liberia, West Africa  
 R. H. Geddes ..... Tappahannock, Va., Box 216 (Va. Div. of Forestry)  
 R. H. Geddes ..... Rt. 1, 713, Accokeek, Md. (USN Oceanographic Office)  
 J. D. Guthrie ..... 578 W. Shadowlawn Dr., Chattanooga, Tenn.  
 J. P. Harper ..... 5125 W. Lakeside Dr., Raleigh, N. C.  
 A. R. Harris ..... Box 553, Clinton, N. C.  
 T. M. Hassell, Jr. .... Box 1559, Wilmington, N. C.  
 R. L. Horne ..... 711 Royster St., Shelby, N. C. (So. Pine Inspection Bureau)  
 H. G. Johnson ..... 609 Joyner St., Greensboro, N. C.  
 J. F. Johnson, Jr. .... 3722 Stratford Blvd, Wilmington, N. C.  
 W. T. Jones, MFWT '56 ..... P. O. Box 248, Greenville, Fla.  
 W. G. Kelley ..... P. O. Box 4166, Richmond 24, Va.

S. H. Long ..... 306 East K Street, Newton, N. C.  
D. E. Moreland, MS '50 ..... Agronomy Dept., Gardner Hall, N. C.  
Ph.D. '53 ..... State College, Raleigh, N. C.  
E. L. Munger ..... Box 72, South Boston, Va.  
A. P. Mustian, Jr. .... 2159 Merann Dr., N. E., Atlanta 6, Ga.  
L. A. Muth ..... Stanfield, N. C.  
R. E. Nielson ..... Unknown  
R. L. Noneman ..... Rt. 4, Sanford, N. C. (Rome Charcoal Co.)  
W. R. Parham ..... 2644 Robin Hood Rd., Roanoke, Va.  
T. W. Patton ..... Box 572, Jacksonville, N. C.  
M. A. Pekar ..... Forester, Continental Can Co., P. O. Box 97, Palmyra, Va.  
H. R. Powers, Jr., Ph.D. '53 ..... Southeastern Forest Experiment Station, Asheville, N. C.  
F. P. Probst ..... Unknown  
Franklin Salzman ..... 2907 Bradford Lane, Bowie, Md. (USFS)  
B. F. Smith ..... Unknown  
W. Mc. Stanton ..... Box 83, Rowland, N. C.  
P. M. West ..... P. O. Box 563, North Wilkesboro, N. C.  
F. E. Whitfield ..... For. Mgmt. Ext. Spec., 268 Kilgore Hall,  
N. C. State College, Raleigh, N. C.  
A. D. Wilson ..... Box 151, Wytheville, Va. (Va. Div. of Forestry)  
D. K. Wilson ..... Regional Coordinator, Minn. Div. of Forestry, Hill City, Minn.  
F. W. Woods ..... School of Forestry, Duke University, Durham, N. C.  
O. T. Wynne ..... 106 Oakway Court, Clemson, S. C.  
T. E. Yancey ..... Box 198, Waverly, Va. (Va. Div. of Forestry)

#### Class of 1950

H. W. Alexander ..... Box 235, Murphy, N. C.  
T. C. Alexander ..... 104 Tucker St., Burlington, N. C.  
P. E. Appleby, Capt. .... Det. 875, VPI, Blacksburg, Va. (USAF)  
J. C. Barber, MS '51 ..... Southeastern Forest Exp. Sta., Macon Research Center, Macon, Ga.  
A. C. Barefoot, MS '51 ..... School of Forestry, N. C. State College, Raleigh, N. C.  
Ph.D. '57  
R. L. Beal ..... International Paper Co., Brandon, Miss.  
F. W. Biddix, Jr. .... Spruce Pine, N. C.  
C. A. Blevins ..... 2nd St., Knightdale, N. C.  
D. R. Bowling ..... Forestry Dept., Masonite Corp., Laurel, Miss.  
R. E. Boyette ..... Box 425, Rockingham, N. C.  
A. W. Bragg ..... 2126 Sprunt, Durham, N. C.  
G. P. Brank ..... R-1, Box 403, Weaverville, N. C.  
W. R. Broadwell ..... Box 63, Raper, N. C.  
J. R. Buney ..... Hobbsville, N. C.  
D. T. Burkett ..... 5402 Phillips Hwy., Jacksonville, Fla.  
P. O. Campbell ..... 219 Smith St., Georgetown, S. C.  
L. R. Cantliffe, Jr. .... Box 893, Meriden, Conn.  
M. J. Cavanaugh ..... 2118 Glenn St., Newberry, S. C. (Champion Papers Inc.)  
J. F. Clayton ..... Box 129, West Jefferson, N. C.  
L. D. Cur'e ..... Area Conservationist, Soil Cons. Serv., P. O. Box 134, Waynesville, N. C.  
W. F. Currence ..... Turtletown, Tenn.  
H. G. Dallas, Jr. .... Carolina Power & Light Co., Insurance Bldg., Raleigh, N. C.  
J. J. Dee ..... 5 Bellows Lane, New City, New York  
H. C. Dellinger, MS '51 ..... Box 106, Quitman, Miss.  
D. A. Dubow, MS '54 ..... 143 Fairbanks St., Hillside, N. J.  
W. R. Edens ..... 488 Pearl St., Darlington, S. C.  
A. C. Edwards ..... Box 282, Moneka Corner, S. C.  
W. T. Ellison, Jr. MS '56 ..... 510 Pinhurst Ave., Colonial Heights, Va.  
E. J. Engel ..... Box 369, Monticello, Ga.  
J. T. Evans ..... Box 667, Sylva, N. C.  
E. F. Finison ..... 6134 Pine Ridge Ave., Alexandria, La. (USFS)  
W. C. Furr ..... Unknown  
J. H. Gilliam ..... Forestry Ext. Spec., N. C. State College, Raleigh, N. C.  
T. E. Glunt ..... 2298 Thames Dr., Redding, Calif.  
J. A. Gravely ..... 321 King St., Brevard, N. C.  
R. L. Gray ..... Tompkinville, Kentucky  
H. J. Green ..... 408 Dry Ave., Cary, N. C. (N. C. F. S.)  
T. S. Griffin ..... P. O. Box 50, Elizabeth City, N. C.  
W. V. Griffin ..... Route 3, New Bern, N. C.  
R. W. Gross ..... Unknown  
R. J. Hare ..... 709 Raleigh St., Roanoke Rapids, N. C.  
N. M. Hicks ..... E. L. Bruce Co., 811 Brook Hollow Rd., Nashville, Tenn.  
J. D. Hill ..... P. O. Box 1078, Rockingham, N. C.  
J. C. Holland ..... 2206 Anderson Dr., Raleigh, N. C.  
Herbert Kahan ..... Newfield Dr., Stamford, Conn.  
W. R. Kiser ..... 69 Dogwood Acres, Chapel Hill, N. C. (NCFS)  
R. C. Kornegay ..... S. 5th St., Smithfield, N. C.  
J. G. Lampe ..... 1009 S. Flint St., Apt. 4, Jonesboro, Ark. (Poinsett Lmbr. Mfr. Co.)  
H. A. Lockemer ..... 4 Gladstone Rd., Asheville, N. C.  
V. D. McDonald ..... 2211 Beechridge Rd., Raleigh, N. C. (CP&L)  
E. P. McMillan, Jr. .... Unknown  
F. W. Miller ..... 112 12th St., Jeanette, Penn.  
A. W. Millers ..... 956 4th St. Drive, N. W., Hickory, N. C. (City of Hickory)  
E. C. Moon ..... 101 S. Laurel Ave., Charlotte, N. C.

M. S. Moore	2202 Hawthorne Lane, Kinston, N. C.
M. A. Mulkey	38 Southwood Dr., Pine Bluff, Ark.
C. A. Musser	2217 Dixie Trail, Raleigh, N. C.
R. C. Overby	427 Jefferson St., Roanoke Rapids, N. C.
J. R. Padgett	1604 Kathleen St., Hattiesburg, Miss. (USFS)
W. J. Paschal	Paschal Lumber Co., Lillington, N. C.
W. W. Paylor	Box 152, Longhurst, N. C.
W. R. Phelps	United Fruit Co., Santa Marta, Colombia, South America
J. H. Phillips, Jr.	Box 1282, Goldsboro, N. C.
W. L. Pierce	112 Oakhill Ave., Portsmouth, Va. (Va. Div. of For)
J. M. Poplin	1126 Sycamore St., Rocky Mount, N. C.
D. H. Price	136 Wilson St., Chester, S. C.
L. R. Propst, Jr.	Unknown
F. R. Puckett	790 Ellis, N. E., Orangeburg, S. C.
J. R. Rankin	4506 Country Club Rd., New Bern, N. C.
B. W. Ratts	415 Raleigh, Ave., Carolina Beach, N. C.
N. S. Rhyne	4505 Drexel Dr., Raleigh, N. C. (NCFS)
W. R. Rickman	% Mrs. W. R. Rickman, Rt. 4, Franklin, N. C.
B. H. Ropeik	Unknown
J. W. Safley	Unknown
W. H. Searcy	1106 Newton Dr., New Bern, N. C.
K. B. Sexton	Box 202, Wakefield, Va.
M. N. Shaw, Jr.	Unknown
J. W. Sisson	214 London Rd., Asheville, N. C.
H. H. Smith, Major	Route 4, Box 179, Petersburg, Va.
J. F. Spivey, Jr.	164 Lynn Cove Rd., Asheville, N. C.
H. G. Turner, Jr.	N. C. Dept. of Conservation & Development, Raleigh, N. C.
M. A. Tuttle, Capt.	Box 246, 48 Tact. Ftr. Wing, APO 179, N. Y., N. Y. (USAF)
W. A. Tuttle	Hot Springs, N. C. (USFS)
A. R. Verbeck	Box 5691, State College, School of Textiles, Raleigh, N. C.
L. J. Walls, Jr.	Clinton, N. C.
M. F. Ward	230 Rose Ave., Wilmington, N. C. (Int. Paper Co.)
J. B. White, MS '50	Unknown
W. B. White	903 Nichils St., Henderson, N. C.
T. W. Whitt	Unknown
J. M. Wilkinson, Jr.	Masonite Corp., New Augusta, Miss.
T. L. Willis	1803 Hight St., New Bern, N. C.
R. E. Williams	3715 Dresden Dr., E., Charlotte, N. C.
W. H. Williams	P. O. Box 83, Beaufort, N. C.

#### Class of 1951

J. F. Allen	Unknown
J. H. Beaman	Dept. of Botany, Michigan State Univ., S. Lansing, Michigan
D. H. Bush	Box 671, Jacksonville, N. C.
C. B. Cease, Jr.	329 Carolina Ave., N. W., Orangeburg, S. C.
Charlie Cousins	Lea Lumber Co., Windsor, N. C.
E. M. Estep	745 N. E. 151st Avenue, Portland 30, Oregon (Pac. N. W. For. Rnge. Exp. Sta.)
P. B. Etchinson	334 Copley Rd., Upper Darby, Penn. (USFS)
B. W. Gentry	Troy Lumber Co., Lumberton, N. C.
D. R. Godwin	P. O. 264, Sanford, N. C.
L. D. Greenwood	317 N. Palm Ave., Frostproof, Fla. (Alico Land Devel. Co.)
J. T. Hance	S. C. State Comm. of Forestry, Columbia, S. C.
H. R. Hendricks	W. Va. Pulp and Paper Co., Wood Dept., Covington, Va.
I. C. Henson	Power Operations, Kingston Steam Plant, Harriman, Tenn.
L. T. Hunter	Pine St., Mocksville, N. C.
R. W. Hutson	11 Gibbs St., Charleston, S. C.
A. P. Jervey	Walterboro, S. C.
R. G. Jewett	Deceased
R. W. Johanson, MS '55	Southeastern Forest Experiment Station, Macon, Ga.
E. M. Jones	Forestry Ext. Spec., Kilgore Hall, N. C. State College, Raleigh, N. C.
J. G. Lusk	Homer Lumber Co., Inc. Kenova, West Va.
J. C. Masten	209 E. Wycbe St., Whiteville, N. C.
R. P. Mencham	Route 3, Goldsboro, N. C.
W. P. Mitchell	Box 1054, Kinston, N. C.
R. F. Penland	P. O. Box 7084, Asheville, N. C.
J. Ralston, MS '56	Maryville Branch Post Office, Georgetown, S. C.
J. R. Reid, Jr.	3465 Leonard St., Raleigh, N. C. (Prospecting Engr)
J. P. Renfro, MS '57	103 Davison St., Brewton, Ala.
A. C. Roane, Jr.	1208 Clay Ave., New York 56, N. Y.
S. C. Rose	Rose Surveying and Construction Co., Fayetteville, N. C.
A. F. Rowe, Jr.	808 W. 5th St., Ayden, N. C.
W. E. Scholtes	1303 Lakewood Ave., Durham, N. C.
R. E. Shilling	Box 715, Elizabethtown, N. C. (Int. Paper Co.)
A. F. Shaurup	RR 2, Box 191, Neshanic Station, New Jersey (Western Elec. Co.)
W. D. Shofner	Unknown
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Class of 1952

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Class of 1953

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Class of 1958

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Class of 1959

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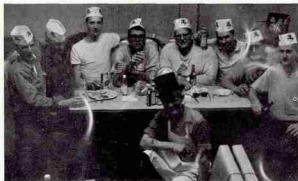


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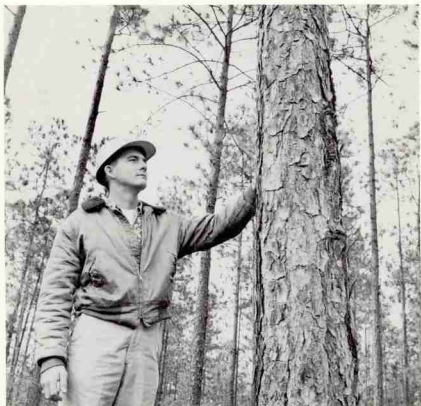
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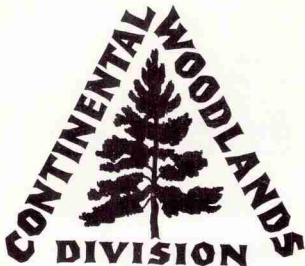
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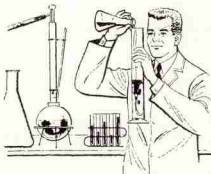
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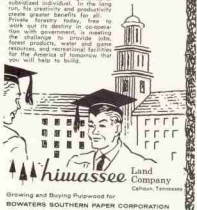
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