

# Pinetum

JOURNAL  
of the  
SCHOOL OF FORESTRY  
North Carolina State University  
at Raleigh

1965

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

Weldwood Flexwood—developed by United States Plywood—is genuine veneer permanently laminated to either non-woven fibre 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 large sheets as well as bonded to substrates such as aluminum and steel, by our Flexible Materials Division in Louisville, Kentucky. Substantial sales are being realized from the automotive industry for interior decorative trim on the Chrysler, and from fabricators of metal partitions, such as E. F. Hauserman and Virginia Metal Products, as well as from other large manufacturers—Aero Commander Aircraft, Brunswick Corporation, Lightolier, etc. Manufacturers of major home appliances, such as refrigerators (Amana) and dishwashers (Hobart "Kitchen-Aid"), also are using Industrial Flexwood for facing panels to match fine kitchen cabinet woods. Many other industries are exploring uses for this interesting and versatile decorative material, which can also be bonded to hardboard, Novoply, plywood, etc.

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# The PINETUM

Annual Publication  
of the  
Forestry Club  
North Carolina State University  
at Raleigh



VOLUME 31

1965

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## Pinetum Staff



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### Foreword

*It is with pride and pleasure that we of the Pinetum staff present this issue to the students, faculty, and alumni of North Carolina State University. This year we have tried to emphasize the endless variety of work that one may find in forestry. From the pine forests of the South, to the Peace Corps Volunteer in Peru, to the nose cone of a Polaris missile, forestry plays a vital role in today's world.*

## Dedication



*We take great pride in dedicating this issue of the PINETUM to Mrs. Margaret Frances Liles. Since 1954 she has been friend, counselor, advisor, and confidante to each succeeding class. Her devotion, unfailing cheerfulness, and constant concern for the solution of all student problems far beyond the limits of her professional duties earns her our heartfelt thanks and this small token of our esteem for her.*

# FACULTY

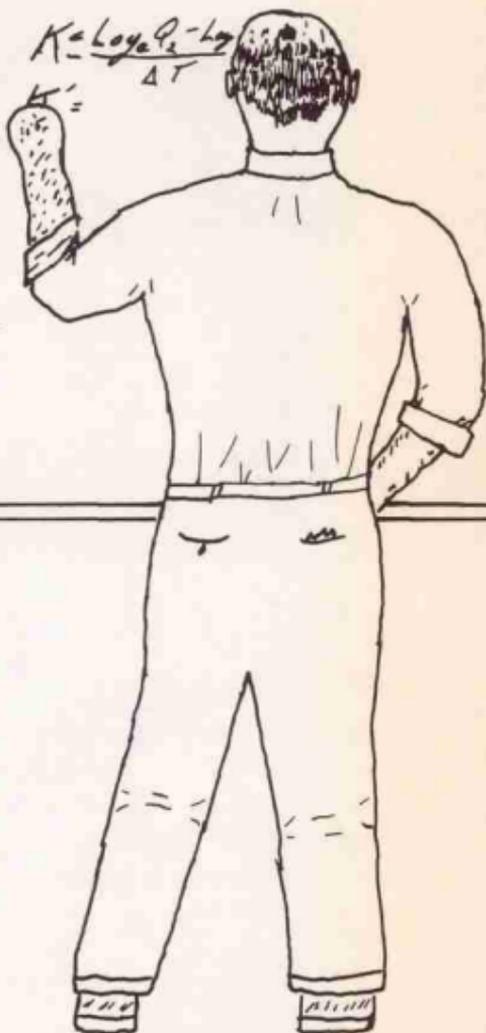
$$\frac{dQ}{dT} = KQ_0$$

$$\int_Q^A \frac{dQ}{Q_0} = \int_0^T KdT$$

$$\left[ \ln Q \right]_{Q_0}^{Q_1} = I_0 KT$$

$$K = \frac{\log_e Q_2 - \log_e Q_1}{\Delta T}$$

$$K =$$



In Your Heart, You Know Its NORMAL



C. Earl Libby

On May 26, 1964, Professor Libby died at his retirement home in Pompano Beach, Florida at the age of 71. He joined our faculty in 1952 after retiring from the faculty of the New York State College of Forestry where he organized the Pulp and Paper Curriculum in 1920 and headed this most successful undergraduate school of Pulp and Paper Technology for 32 years.

Here he repeated his performance by organizing our curriculum on the same pattern that has been so productive at Syracuse. Men who graduated under him during his long career there are now top executives in mills all over the United States. Here in the Southeast they rallied to his support by the formation of our Pulp and Paper Foundation which now contributes \$75,000 per year in support of our program. This support, added to the prestige of C. E. Libby, quickly attracted a student body equal to one-fourth of the entire School of Forestry.

In 1953 he was appointed Reuben B. Robertson Distinguished Professor of Pulp and Paper Technology.

The Technical Association of the Pulp and Paper Industry honored him by making him TAPPI Medalist in 1962 and the Paper Industry Management Association made him a Life Member in 1960.

The recitation of his honors and achievements can be tedious but all can agree that his greatest contribution was his teaching of young men. Although he left two daughters, Jean and Carol, he had no sons of his own. He seemed to adopt every student under his care and seemed as concerned with character building as with the establishing of technical understanding.

He believed that hard work was good preparation for life and, in consequence, his students were overloaded by ordinary academic standards.

He was a strict disciplinarian in enforcing deadlines and rules of conduct. He built integrity.

He followed the careers of his graduates and was always helpful in providing greater opportunities or finding efficient help.

He left an emptiness in the hearts of his many friends and left the world a better place in which to live.



DR. R. J. PRESTON, JR.

Dean of the School of Forestry and Professor of Forestry  
A.B., M.S.F., Ph.D., University of Michigan

DR. J. V. HOFMANN

Director Emeritus and Manager North Carolina Forestry Foundation  
B.S.F., M.F., Ph.D., University of Minnesota



DR. WILLIAM D. MILLER

Professor Emeritus of Silviculture  
A.B., M.F., Ph.D., Yale University

LENTHALL WYMAN

Professor Emeritus of Forest Utilization  
A.B., M.F., Harvard University



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Schenck Professor of Forest  
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ment Head  
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of Minnesota



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Professor of Forest Manage-  
ment  
B.S., M.F., Ph.D., Duke Uni-  
versity

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Professor of Silviculture  
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Geneticist  
B.S.F., M.S., North Carolina State University

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Assistant Professor of Forest Genetics  
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DR. T. O. PERRY

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B.S., M.A., Ph.D., Harvard  
University

DR. BRUCE J. ZOBEL

Edwin F. Conger Disting-  
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Genetics  
B.S., M.F., Ph.D., University  
of California



Joint Appointees  
in  
Forest Biology



DR. ARTHUR W. COOPER

Associate Professor of Bot-  
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of Michigan



DR. CHARLES B. DAVEY

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of Wisconsin

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Professor of Forest Entomology  
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Carolina State University



DR. JAMES W. HARDIN

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B.S., M.S., Ph.D., University  
of Michigan



DR. ARTHUR KELMAN

Professor of Forest Pathology  
B.S., M.S., Ph.D., North  
Carolina State University





DR. L. C. SAYLOR

Assistant Professor of Genetics and Forestry  
B.S., M.S., Ph.D., North Carolina State University



"That's right. Bring me one carton of 16 oz. Pepsis, two pounds of cheese, five pounds of peanuts. . . ."

Department of Wood Science  
and Technology

DR. ERIC L. ELLWOOD

Dept. of Wood Science and  
Technology Head  
B.S., M.S.F., Ph.D., Yale  
University



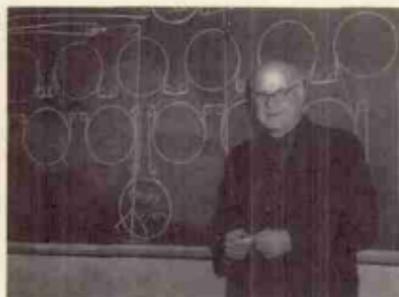
ROY M. CARTER

Professor of Wood Tech-  
nology  
B.S.F., M.S., Michigan State  
College

DR. A. C. BAREFOOT

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est Utilization  
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Professor of Wood Chemis-  
try  
B.S., M.S., Ph.D., University  
of Wisconsin



RICHARD J. THOMAS

Assistant Professor of Wood  
Technology  
B.S., M. Wood Tech., North  
Carolina State University



Dr. Stanley K. Suddarth

VISITING PROFESSOR  
OF WOOD TECHNOLOGY

Dr. Stanley K. Suddarth, Professor in charge of the Wood Research Laboratory at Purdue, is a visiting professor on sabbatical leave at N. C. State from July 1, 1964 until July 1, 1965.

Dr. Suddarth received his degrees from Purdue which include a B.S. in forestry, an M.S. in mathematics, and a Ph.D. in agricultural economics, with undergraduate and postgraduate work in structural engineering. It is believed that Dr. Suddarth is the only licensed structural engineer in forestry at the present time.

Dr. Suddarth is married and has a boy 5 and a girl 8. He was in the Pacific with the Marine Corp during World War II as a radar officer.

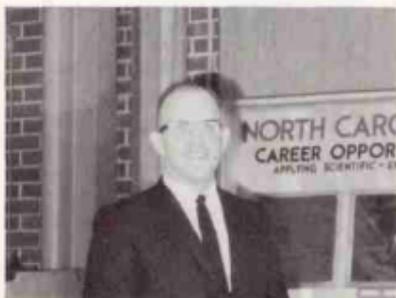
While at State, Dr. Suddarth has been working with Dr. Benjamin Jayne on Office of Naval Research to develop a non-destructive test for the plywood nose cone used on the Polaris Missiles.

Last year, Dr. Suddarth won the American Lumber Industry Award for Applied Research for 1964. He received the award for his work on the engineering design of wood trusses, including the production of automatic computer programs handling the design, and for his work on the non-destructive testing of wood.

In the last ten years he has published approximately 15 bulletins primarily on engineering uses and applications of wood.

Dr. Suddarth plans to return to Purdue where he will continue his work as co-author with Dr. Jayne on a book entitled *Mechanics of Fibrous Material*.

## Staff



ROBERT C. GILMORE

Superintendent Wood Products Laboratory  
B.S., M. Wood Tech., North Carolina State University

K. O. SUMMERVILLE

Staff Assistant in charge of Greenhouse and Field Work  
B.S., North Carolina State University



Everett Morgan



"Mac" McLaurin

Wood Products Lab



Edith Rose



Mrs. Frances Liles



Miss Hazel Adams



Mrs. Margaret Motley



Mrs. Dorothy Honeycutt  
PULP & PAPER



Elga Filton  
PHYSIOLOGY



Ann Law                      Nancy Roberts  
Wood Science and Tech.



Dell Cuninghame

#### GENETICS



Miss Cicely Brown



Mrs. Judith Faircloth



Mrs. Martha Holland

#### HARDWOOD RESEARCH

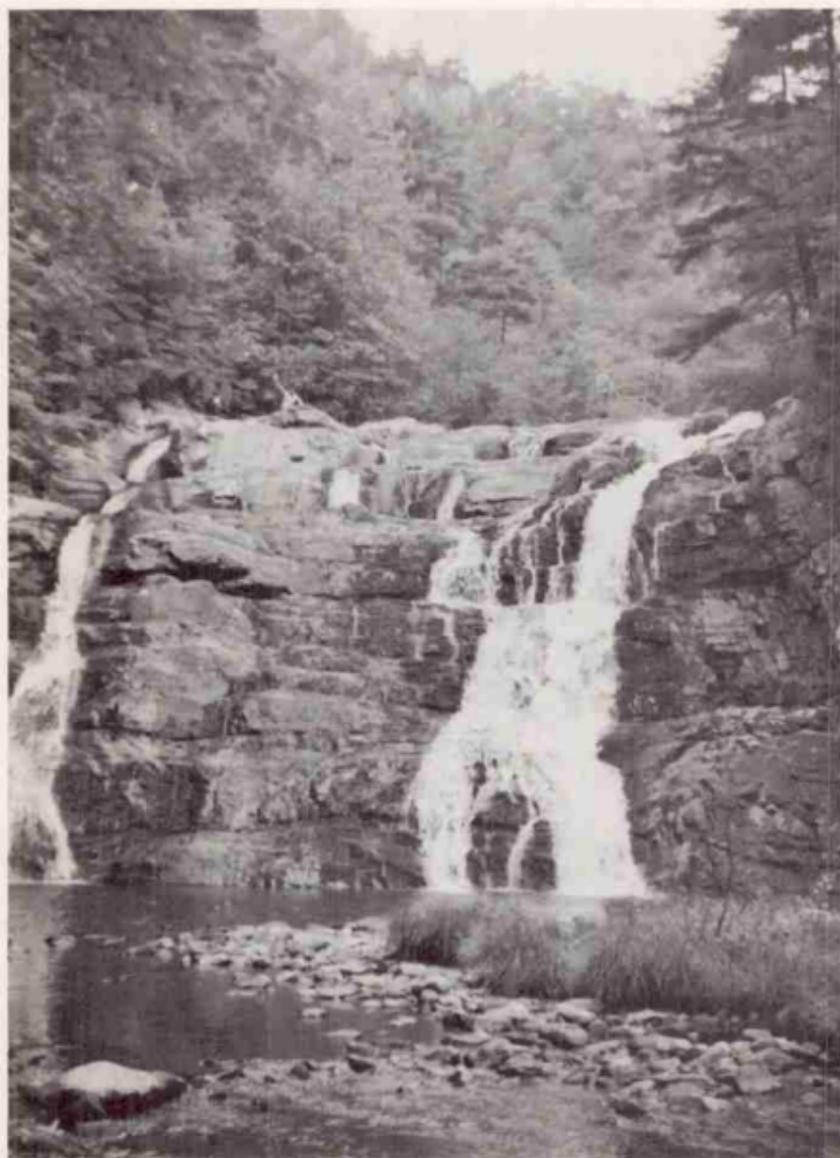


Mrs. Leigh Goss  
Mrs. Martha Matthias



Mrs. Sharon Usanis  
Mrs. Pat Kennedy

# SENIORS



## Seniors



**LAURENCE GAILLARD ALTMAN, JR.—Georgetown, S. C.**

Pulp and Paper Technology-Chemical Engineering Newman Club, Fourdrinier Society, Sigma Pi (Secretary, Athletic Director), Pulp and Paper Foundation Scholarship.

Known to everyone as Laurie, he has a very pleasant disposition for someone who had to walk a lot. Plans to work for I.P.Co. in his hometown for the summer. He will be coming back next year for his Chemical Engineering degree.



**WILLIAM M. ARDREY—Pineville, N. C.**

Forest Management

Farmhouse Fraternity (Vice Pres.), Forestry Club, Society of American Foresters.

"Phantom" is the kind of fellow that can really collect the minus "brownies". With Bill's good nature he will probably accomplish a lot if he can stay out of Hill Forest Pond and the "Top Hat."



**COLIN BAGWELL—Knoxville, Tenn.**

Forest Management

Society of American Foresters, Society for the Preservation of Barbershop Quartet Singing in America, Transferred from Tennessee Wesleyan College and University of Tennessee. B.S. in Biology from Wesleyan in 1963.



**BENNETT RAY BAIRD—Raleigh, N. C.**

Pulp and Paper Technology

Alpha Zeta, Xi Sigma Pi (Associate Forester, 64-65), Pulp and Paper Foundation Scholarship, Crown Zellerbach Award, Fourdrinier Society (Treasurer).

The only time that Bennett was ever depressed was after one of Prof. Hitching's finals. Almost retired after his senior year because he couldn't decide whether to work or go to grad. school and finally decided to work on his masters here at State.



**GENE GARDNER BARNES—Stedman, N. C.**

Forest Management

Gene's quiet manner makes him a very likeable fellow. Married life seems to have treated him well.



**HERSY GRANT BASHAM—Lynchburg, Va.**

Forest Management

Forestry Club, SAF, Lambda Chi Alpha, Student Government, Tutorial Project, Alderman-McKimon Village.

Married life has really helped to pull Basham through. With renewed effort and willing mind, Grant is ready and able to take the future in stride.



**PAUL JERRY BONARDI—Sanford, N. C.**

Forest Management

SAF

Paul is one of the married boys in the management class and comes all the way from Sanford each morning so that he can run around in the woods with the rest of us. Paul is the quiet type and just stands around and watches in awe at his colleagues as they "lime sock the hell out of each other".



**WILLIAM E. BRADFORD**—Mt. Airy, N. C.

Pulp and Paper Technology

Xi Sigma Pi, Fourdrinier Society, PIMA Scholarship Award.

Known as "Willie" to his closest friends and Bill to everyone else. Became well known for his prowess on the basketball court. Going to work for Ecusta Paper and Fibert Operations in Brevard, N. C.



**WILLIAM BARR BROOKS**—Richmond, Va.

Forest Management

Alpha Zeta (Book Exchange Chairman), Xi Sigma Pi, Forest Club (Past President).

"Homer" is one of the more "couth" members of the senior class. Among the more noted activities of the "Virginia Gentleman" are shooting at guineas, getting embalmed while embalming, and a love for Greek dishes. Should go far if he can overcome his small problem.



**ROBERT ARNOLD CATHEY**—Canton, N. C.

Forest Management

Forest Club (Social Committee)

"Maggot", Dr. Perry's favorite, has participated in many extracurricular activities, one of the most notable being shower room activity at Kinston Fire School. Bob cares for wildlife and nightlife of all sorts.



**WILLIAM GEORGE CHANDLER**—Arlington, Va.

Forest Management

Forest Club, SAF

Bill is one of the boys who almost is a yankee, but not quite, so we still claim him. One of Dyson's favorites, Bill is studying hard and still running up and down the stairs over at the apartment trying to do a mense problem and smoke and joke with the girls down stairs at the same time.



**EARNEST CALVIN CLARK, JR.—Stanley, N. C.**

Pulp and Paper Technology

Alpha Phi Omega (Corresponding Secretary), Student Government (Senator and secretary of Academic Affairs Committee), Xi Sigma Pi, Fourdrinier Society (Program Chairman), Pulp and Paper Foundation Scholarship, Gamma Sigma Delta. There is no doubt in anybody's mind that Calvin will be a mill manager someday. Plans to work for Container Corporation in Fernandina, Fla.



**PHILLIP GEORGE CLEGG—Durham, N. C.**

Forest Management

SAF, Arnold Air Society, Area Staff AFROTC Wing Operations Officer, Distinguished Military Student Award, Flight Instruction Program, Track-Intramurals.

Clegg is the only genuine flying forester among the crew. We don't know how many trees are in Viet Nam, but no doubt he will have a chance to count them from his supersonic timber cruiser.



**PHILIP GRIFFIN CONNELL—Charlotte, N. C.**

Forest Management

Forestry Club, Xi Sigma Pi

"Phyllis" is one of our most illustrious graduates from "Myers Park" and to prove that he should go back there and start over, he's turned into a run-home Freshman, but now that Chris has found out about "Shortie", it could be all over for his weekend trips. If so, he can always go back to working for Dr. Bryant on Saturdays, since he's going to have to get in about 100 hours if he wants to graduate with the rest of us.



**FORREST CRABTREE—Camden, Arkansas**

Pulp and Paper Technology

Transfer student from Auburn Univ. with a B.S. in Chemical Engineering. Member of Kappa Alpha Order, Fourdrinier Society

Forrest comes from a pulp and paper background so he decided to get a degree in PPT to go with his Chemical Engineering degree from Auburn Univ. He will go to work for International Paper Co. in Mobile, Alabama.



**WILLIAM CROSSLAND—Raleigh, N. C.**

Pulp and Paper Technology

Phi Kappa Tau Social Fraternity, N. C. State Marching Band, PIMA, Advanced ROTC, Fourdrinier Society, Intramural Sports-Big 4 Softball Team Bill has that blank summer mill report to look forward to at Penwick and Ford Co. in Cedar Rapids, Iowa. Hopes it will keep him from going into the Army anytime soon.



**SHAFTER EDWARD DRINKARD—Raleigh, N. C.**

Forest Management  
Forestry Club, SAF

Chat is another of the married boys, and to prove it just ask Milly if Chat isn't a world authority on telling the difference between bulls and milk cows. Chat has worked hard both on campus and over in the village and has lately turned into the "honcho" of Prof. Carter's tree planting fiasco.



**CHARLES JOSEPH DUCKWORTH—Brevard, N. C.**

Forest Management

SAF, AZ, Xi Sigma Pi, Forester, President ASFC "Crow" is an active member of many campus organizations. He has managed to maintain a good scholastic average and will graduate "Summa Cum Brownie" if he doesn't burn up another bus motor.



**WILLIAM CHARLES DUFFY, JR.—Franklin, Va.**

Forest Management

SAF, Wesley Foundation, Intramurals Bill is a quiet, good natured fellow who has worked hard these past four years. He should do well as a forester.



**HARRY TODD FISHER**—Candor, N. C.

Forest Management

N. C. State Bands 4-yrs., Forestry Club (Treasurer), Association of Southern Forestry Clubs (Treasurer), Xi Sigma Pi

Harry Todd, known for his hard studying and good grades, has done an outstanding job at school not only in his studies but also in attaining friends. His future prospects seem very good.

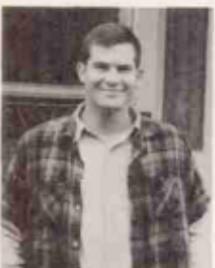


**STEPHEN ROSS FORT**—Clarkton, N. C.

Wood Tech.

FPRS, Sigma Phi Epsilon

Steve is one of the boys from over on the row, and is reported to inhale large quantities of the demon rum while at the house. The word is out on Steve getting married soon, and all we can say is heaven help the girl who gets a husband who doesn't know persimmon from pine.



**REAGAN H. FOX**—Raleigh, N. C.

Forest Management

Forestry Club, Soc. of American Foresters

Reagan is another one of the recently married men. Although he spends considerable time with the "Cutler Street Gang", Fox and his pretty wife should have a good life ahead of them.

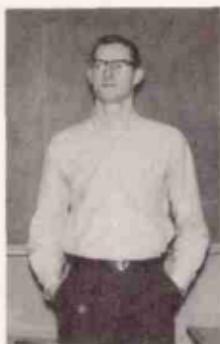


**JIMMY DOUGLAS GREGORY**—Angier, N. C.

Forest Management

Forestry Club, (Secretary), ASFC, Pershing Rifles, Scabbard and Blade (Captain), Army ROTC Brigade (Commander), Alpha Zeta, Xi Sigma Pi, Thirty and Three, Phi Kappa Phi.

Jimmy is one of the hardest workers that State has to offer as his record indicates. Recent marriage has slowed the work slightly, but Jim's future still appears to be among the most successful. Jim will attend graduate school next year.



**EDWARD P. GUERARD, JR.—Georgetown, S. C.**

Pulp and Paper Technology

Xi Sigma Pi, (Honor Fraternity), Sigma Nu (Social Fraternity), Scholarship Chairman (3), Secretary (4), Pulp and Paper Foundation Scholarship, Fourdrinier Society, Football and Track (Intramurals).

Ted came from a big pulp and paper town to learn all about papermaking. Thought he might get a ROTC commission along the way, but decided to take lesser of two evils and get married after he graduates. He also plans to return to South Carolina for a degree in Business Administration at U.S.C.



**THOMAS GARDNER HARRIS, JR.—Roanoke Rapids**

Forest Management.

Forestry Club, Xi Sigma Pi, SAF, AFA, NCFA, Pershing Rifles, Advanced ROTC, Filthy Five, USF-URP

"Owl", the albino member of Cutler St. (excluding "Zipper") is well known as the only man who once thought of pulling over trees for a living but, fortunately, someone over at Meredith has changed all this and now he's eager to go to Vietnam and grow rice the rest of his life.



**GLEN STUART HARRIS—Wakefield, Va.**

Forest Management

Forestry Club (President), Dorm Athletic Director, Intramurals, Society of American Foresters.

"Hazard" Harris is among the most notorious and well liked of all State graduates. Nobody can shoot the bull or cause accidents quite as well as "the Hazard". There's never a dull moment when Glen is around.



**ROBERT HARRISON—Williamsburg, Va.**

Pulp and Paper Technology

Phi Kappa Tau Fraternity—President, Interfraternity Council—Vice President, Student Government, AUSA, Advanced ROTC-DMS, VPI Forestry Grant, Army Flight Training, Intramurals, Pulp and Paper Foundation Scholarship.

Despite his many activities Bob managed to get through these four grueling years. He has a natural gift of gab and will need it in the Armor Branch of the Army. Bob worked three summers at Chesapeake Corp. but plans to find permanent employment elsewhere.



**RICHARD HOWARD HOLLEY—Arlington, Va.**

Pulp and Paper Technology—Chemical Engineering Xi Sigma Pi, (Honorary Fraternity), Sigma Nu (Social Fraternity) Interfraternity Council—Activities Chairman, Fourdrinier Society.

"Shorty" will undoubtedly be a big man some day even though he is only 5'8" tall. Will come back next year for a Chemical Engineering degree on the graduate level.



**MARVIN BOBB HULA—Charles City, Va.**

Forest Management  
Forestry Club, Phi Kappa Phi, Xi Sigma Pi, Business Manager of Pinetum

"Hoop" is known as the only one who could ever come close to keeping "Hazard" in line. The neighbors will long remember how the "Wild Goose" would put him down with the old familiar "you stupid, stupid. . . .". He is also noted for his kindness to animals; like the time he adopted a stray dog. We'll never understand why he named a female dog Ralph.



**JOHN FERMAN IRBY, JR.—Bon Air, Virginia**

Forest Management  
Forestry Club, President 4; Alpha Zeta; Xi Sigma Pi, Sec.-Fiscal Agent; FarmHouse Fraternity, NSF Undergraduate Research Project; Editor of the *Pinetum*; SAF.

"Ferby" Irby is well known for his satirical comments, and ability to distribute his work load. Although Ferman lives at Cutler Street he still has many good qualities which have made his four years at State highly successful. Ferman will be in graduate school next year, but it won't be State for many and varied reasons.



**JON JEFFRIES—Peoria, Ill.**

Forest Management  
SAF, Forestry Club, AUSA, Phi Kappa Tau, ROTC, Intramural Athletics

The "Peoria Flash" is more of the strong silent type, as all good gorillas are. He's very good natured about being an Illinois yankee, however. Jon will probably break his neck smoke-jumping this summer, so he won't have to go to Viet Nam this fall.



**DOCK EDGAR JOHNSON**—Randleman, N. C.

Forest Management  
Forestry Club

Dock's about as strong as Little Abner and twice as good natured. If he can ever get his car running, he might get away from this place after graduation. He was "bad" to come to an 8 o'clock class with last night's cigar butt.



**GEORGE RICHARD KALL**—Pittsburgh, Pa.

Pulp and Paper Technology  
Fourdrinier Society, Sigma Nu

George will always be remembered for the fact that you usually heard him before you saw him. Came here from Carnegie Tech with a degree in Chemistry.



**JACK CLAUDE KING**—Providence Forge, Va.

Forest Management  
Forestry Club.

One of the finest boys in the class but he had to bite the dust when he got hitched up last winter. Now all he does is burn up the road every (almost) weekend to see the better half.



**HERBERT JULIEN KIRK**—Aberdeen, N. C.

Forest Management  
Xi Sigma Pi, Forestry Club, SAF

Herb is one of those fellows that you never hear much out of but never the less you know he's there. He missed our summer camp and Battle of Arrowwood Glade but he's one of the crew just the same.



**SAMUEL BUCHANAN LAND, JR.**—South Hill, Va.

Forest Management

Alpha Zeta, Xi Sigma Pi, Phi Kappa Tau, Phi Kappa Phi, Keaton's Marauder's (Summer Camp 1963.)

One of the brightest boys in the class. He'll be the one we read about in *The Journal* in years to come. Should have been a Civil Engineer and built a new road around South Hill.



**WILLIAM HOWARD LANGLEY**—Asheville, N. C.

Pulp and Paper Technology

Fourdrinier Society

R. J. Reynolds urged this boy to come back and get his degree.



**MUN-TAI LI**—Hong Kong, China

Pulp and Paper Technology

Intramural Ping-Pong

Never said too much but when he did it was usually humorous. Plans to work in this country if he can learn to run a permanganate test.



**JAMES R. MCGRAW**—Winston-Salem, N. C.

Forest Management

Forestry Club, Scabbard and Blade, Monegram Club (Sec. Treas.), Track, Soccer, SAF, A.F.A., Xi Sigma Pi, Advanced ROTC.

"Minus," as he's fondly known by Dr. Bryant and as "Maurice" by the rest of us is a pretty good fellow when he's not "out to lunch". He's been known to sharpen his machete in his spare time (the one he found at Summer Camp).



**SCOTT McKELLAR—Rowland, N. C.**

Forest Management

Scott lost his buddy several semesters ago and it looks like he hasn't missed him. Ought to do well in the real world.



**JAMES EUGENE MALPASS—Delco, N. C.**

Forest Management

Forestry Club.

Jimmy is another one of the quiet ones but a mighty hard worker. He's going to make a pretty good place for himself.



**ALVIE ROY MARCELLUS—Schaughticoke, N. Y.**

Wood Tech

F.P.R.S. (Vice Pres.), Forestry Club (Secretary, Program Chairman, Captain of Conclave Team), Omega Tau.

Alvie is the champion axe-man of them all. Likes to say his piece at Forestry Club meetings also.



**GEORGE HENRY MAXWELL, III—Elizabethton, Tenn.**

Forest Management

SAF, Forestry Club.

"I can run faster, jump higher, squat lower, move sideways faster, spit further than any son-of-a-#\*@?! in the school." Words can't adequately describe this fine fellow. If he doesn't make it in the real world, none of us will.



**DONALD R. PAGE—Chattanooga, Tenn.**

Forest Management

ΔΣϕ

Don came back to school and joined up with us at summer camp. One of the boys from over the mountains, he stands a good chance of getting a job since he's married and has been to see Uncle, both. The only thing we can't figure out is where did he go on weekends at summer camp.



**RUSSELL AVER PARHAM—Raleigh, N. C.**

Wood Tech.

NSF-URP, Baseball 1, 2, 3, 4

"Pete" is the most athletically inclined of this years graduates as all who have seen him swing a bat, well know. Another of "Short Roy's" boys, Pete is going on to grad. school and letting those 68 jobs go for a while.



**WILLIAM CLYDE PARHAM, III—Lotto, S. C.**

Pulp and Paper Technology

Fourdrinier Society, Xi Sigma Pi, Pulp and Paper Technology Foundation Scholarship.

"Where did you say you were from, Atlanta?" Clyde has a soft spot in his heart for Arkansas too. However, he also has a brain in his head and plans to use it again next year in Chemical Engineering. Wants to work in a licorice plant in Dallas this summer.



**DOUGLAS RAY PHILLIPS—West Jefferson, N. C.**

Forest Management

Forestry Club, SAF.

"Bullwinkle" knows how to shed the trivia like water off a duck's back. He knows a trick. He plans to go into Personnel Management work after consulting with Dr. Wood.



**JOHN STANLEY PRITCHARD—West Point, Va.**

Pulp and Paper Technology—Chemical Engineering Fourdrinier Society (Secretary—1964-65), Xi Sigma Pi, ROTC, Pulp and Paper Foundation Scholarship.

Pritchard should have gone to Michigan, but he has done well here anyway. He has had his troubles with the Raleigh Traffic Cops, even though he has lived with one for the last year. He will make a fine PPT man if he can remember to tie a string to the sample cup so he won't drop it in the head box again.



**RALPH K. PUCKETT—Mount Olive, N. C.**

Pulp and Paper Technology  
Fourdrinier Society, Pulp and Paper Foundation Scholarship

Rather quiet but impressed everyone with an unusually good voice quality in Doc's class one day. Plans to work in the paper industry and dodge the draft as long as possible.



**HARRY THOMAS SANDERS, JR.—Southport, N. C.**

Pulp and Paper Technology  
Pulp and Paper Foundation Scholarship, Crown Zellerbach Scholarship Award, Fourdrinier Society (President), Xi Sigma Pi, (Ranger), Phi Kappa Phi.

Tom is one of the few PPT students that would bother to take a drink with the management boys and it might be said that he did a fine job of it. He goes to the Institute of Paper Chemistry next fall and will surely make a fine success of the job.



**THOMAS WAYNE SAWYER—Bear Grass, N. C.**

Pulp and Paper Technology  
Xi Sigma Pi, Fourdrinier Society, Pershing Rifles, ROTC.

This "Tom Sawyer" never sailed down the Mississippi on a raft but he's managed to wade through Pulp and Paper.

**SCHULTZ, GARY CHARLES—Dayton, Ohio**

Pulp and Paper Technology  
Who's he? Peanuts Daddy?



**SEAGLE, JOE BEN—Morganton, N. C.**

Pulp and Paper Technology  
Leppert's protege: Joe Ben thinks he should have  
majored in organic chemistry.



**VAJNA VALK SHARMA—Punjab, India**

Pulp and Paper Technology



**DAVID WAYNE SHEPHERD—Salisbury, N. C.**

Forest Management  
Forestry Club, SAF, Lutheran Student Association,  
Outing Club.  
One of the harder workers of the class—does a lot  
of listening and little gabbing.



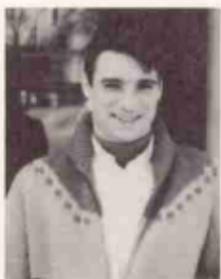
**ABU BAKR SIDDIQUE—Pakistan**

Pulp and Paper Tech  
AID Scholarship  
One of the hardest workers in pulp and paper. He will probably return to Pakistan and become a mill manager.



**DAVID P. SMITH—White Plains, N. Y.**

Wood Technology  
Forestry Club, Treas., FPRS, Omega Tau  
Dave is one of the boys from the land of snow and ice, but since he's been here he's taken up southern habits and been a hard worker in the Forestry Club. One of the boys that's faced with which one of the 50 jobs to take, Dave should do well.



**JOSEPH M. SPENCER, JR.—Charlotte, N. C.**

Forest Management  
College Union (2 years)  
Without old Joe the College Union could not have made it to the top.



**THOMAS F. STROUP—Brevard, N. C.**

Pulp and Paper Technology  
Alpha Zeta, Fourdrinier Society, Leopold Wildlife Club, Pulp and Paper Foundation Scholarship, ROTC.  
Tom liked to talk about his squirrel hunting and made many trips to Greensboro, but not to shoot squirrels. Plans to get married this summer—Poor fool.



**JOE A. SUTTON—Asheville, N. C.**

Forest Management

"Little Joe" is one of the friendliest in the bunch. He gets along real well with Dr. Perry, too!



**EUGENE McCULLOCH TATE—Wilmington, N. C.**

Forest Management

Pi Kappa Alpha

Mac has been reported to be the only boy to take a 6 day weekend while at summer camp and get away with it; but what Dr. Perry doesn't know sure won't hurt him. Mac is a Pika, but is now married and has to stick around pretty close to home and is reported to be studying, but is still strong on poop.



**WARREN ERNEST TAYLOR, JR.—Chesapeake, Va.**

Forest Management

Forestry Club.

Warren is one of the boys graduating who doesn't smoke or drink, but the word is out that he's getting married soon so he'll probably pick up a vice or two then. The Army has their eye on Warren too, so he could easily spend his honeymoon in the rice paddies, but we hope not.



**WILLIAM EDDIE TICE—Durham, N. C.**

Wood Tech

FPRS, Xi Sigma Pi, Undergraduate Research-N.S.F., Continental Can Scholarship.

Ed has had the dubious privilege of being the only Wood Tech. boy in a suite of management students, but he passed the test and now is one of us. If he'll just stop worrying so much and let things slide in Grad. School, he'll be one of the best boys "Short Roy" ever had.



**DONALD LEE TORCHIA**—Utica, N. Y.

Forest Management

Forestry Club

"Torch" liked those Kentucky girls so good that he even married one. He and "Killer" did it all at summer camp.



**ROBERT KEITH WARD**—Galax, Va.

Forest Management

SAF, Forestry Club, Alpha Phi Omega (Historian), Scabbard and Blade, ROTC.

"Rapid Robert's" fame has spread far and wide from V.I.R. to Sebring—but the Government trucks are getting a bit tired of him.

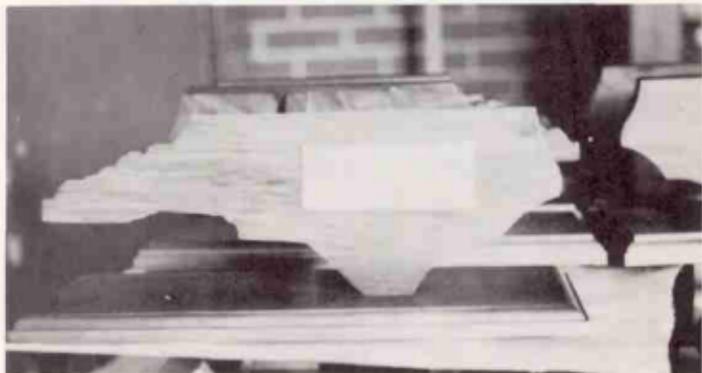


**FAYETTE CONQUEST WIATT**—Gloucester, Va.

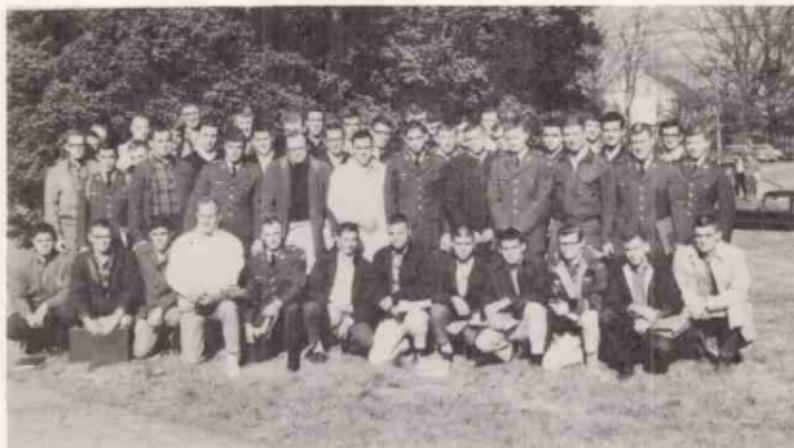
Forest Management

Forestry Club.

The Fire Boss had a pretty hard pull and will be admired by the rest of us. He also held some very interesting human biology lectures at summer camp.



## Classes



Management Freshmen



Wood Technology and Pulp and Paper Freshmen



Management Sophomores



Pulp and Paper Sophomores



Wood Technology Sophomores



Management Juniors



Wood Technology Juniors



Pulp and Paper Juniors

## Graduate Students

Ahlback, A. J.		
Ali, M. O.		MF
Ang, Peng L.		Ph.D.
Appelroth, S. E.		MF
Bassett, Colin		Ph.D.
Beck, D. E.		Ph.D.
Beineke, W. F.		Ph.D.
Bennett, Keith A.		MS
Bonner, L. D.		Ph.D.
Bratamihardja, M. M.		MS
Broughton, R. M., Jr.		MS
Byrd, V. L.		MS
Caballero, M. G. D.		MS
Campbell, G. G.		MS
Cleveland, J. A.		Ph.D.
Clemente, R. A.		Philippines
Danielson, R. M.		Washington
Del Castillo, R. A.		Philippines
Flora, R. L.		Georgia
Franklin, E. Carlyle		Virginia
Garthe, G. M.		Calif.
Gettens, Rebecca		D. C.
Hittmeier, M. E.		MS
Holley, D. L.		Illinois
Ihle, R. G.		S. C.
Ike, Albert F.		Ohio
Jonakin, J. L.		Georgia
Jurgensen, Martin F.		Conn.
Kang, K. W.		New York
Kelly, Myron W.		Korea
Kinloch, B. B.		New York
Kirk, T. K.		S. C.
Kundt, J. F.		La.
Laughinghouse, G.		Virginia
Ledig, Fred		N. C.
Lee, H. M.		New Jersey
Livingston, W. R.		Taiwan
McNamara, W. S.		N. C.
Maikk, M. A.		N. C.
Marx, Donald		Pakistan
Nicholas, D. D.		Georgia
Nikles, D. G.		Oregon
Pegg, R. E.		Australia
Pepper, W. D.		Australia
Perry, P. W.		Alabama
Prak, Anco L.		Penn.
Priegel, E. R.		Netherlands
Rahman, S. A.		Colorado
Roberts, J. H.		Pakistan
Shain, Lewis		Georgia
Shelbourne, C. J. A.		Penn.
Simmons, R. W.		N. Rhodesia
Smith, W. E.		Florida
Snow, Glen		Florida
Snyder, J. L.		Mississippi
Stock, David A.		W. Va.
Sulaiman, A. S.		Michigan
Swindel, B. F.		Iraq
Tabor, C. A.		Georgia
Tang, R. C.		Maryland
Taras, M. A.		Taiwan
Teate, J. L.		Georgia
Terzi, Z. A.		Mississippi
Usanis, R. A.		Iraq
Wani, G. Q.		Conn.
Wilson, J. B.		India
Woessner, R. A.		New York
Wooten, Thomas		W. Va.
		N. C.

## Scholarships and Awards

### PULP AND PAPER FOUNDATION SCHOLARSHIPS

#### FRESHMAN

Ashcraft, David Lee  
Bailey, Mack W.  
Beauchamp, Edward T.  
Boggs, Joe W.  
Dungan, Robert E.  
Johnson, Everett E.  
Link, Lewis E., Jr.  
McLemore, Charles E.  
Ogden, Roger W.  
Williams, Robert G.  
Wimberly, Michael R.

#### JUNIORS

Brown, Robert C.  
Chestnut, Robert S.  
Elliott, William J., Jr.  
Gabriel, Richard G.  
Goodman, Gale H.  
Heitman, John A.  
Hendriks, Robert V.  
Holder, Charles D.  
Holt, Marion A.  
Kear, James F.  
Lamm, John A.  
Mizzell, Ronald S.  
Parker, Homer V., III  
Taylor, Ray S.  
Thomas, Robert G., Jr.  
Tomlin, Thomas A.  
Safrit, David

#### SOPHOMORES

Alexander, Ernest G.  
Brewer, Stanley  
Broughman, William A.  
Campbell, Tommy C.  
Chastant, Thomas J.  
Duncan, Ralph L.  
Hamilton, Douglas L.  
Hinton, Ransom V.  
Huntley, Larry L.  
Mullis, Ralph H.  
McCrary, Milford H.  
Morris, Arthur M.  
Newman, William E.  
Reed, Walter N.  
Sasser, Franklin M.

#### SENIORS

Altman, Laurice G., Jr.  
Baird, Bennett R.  
Clark, Ernest C.  
Guerard, Edward P.  
Harrison, Robert C.  
Holley, Richard H.  
Kall, George  
Parham, William C.  
Pritchard, John S.  
Sanders, Harry T.  
Sawyer, Thomas W.  
Stroup, Thomas F.

### UNDERGRADUATE RESEARCH PARTICIPATION (NATIONAL SCIENCE FOUNDATION)

#### Fall 1964

James P. Cunningham  
Jimmy D. Gregory  
John Ferman Irby, Jr.  
Samuel B. Land, Jr.  
James H. Ware, Jr.  
Harry Thomas Sanders  
William Eddie Tice  
Russell Parham

#### Spring 1965

Gerald R. Brown  
James P. Cunningham  
Jimmy D. Gregory  
Samuel B. Land, Jr.  
Harold E. Sellers  
Harry Thomas Sanders  
William Eddie Tice  
Russell Parham

### BILTMORE WORK SCHOLARSHIP

William Thomas Caroon  
Douglas R. Phillips  
David W. Shepherd

CONTINENTAL CAN COMPANY SCHOLARSHIP

James Victor Henderson  
Andrew Stewart Nuckols  
William Daniel McGill, II  
Charles L. Lennon

Gregory Hudson Winston  
Jimmy Douglas Gregory  
Samuel Buchanan Land

SOUTHEASTERN DIVISION OF PAPER INDUSTRY  
MANAGEMENT ASSN.

William Edward Bradford

THE GARDEN CLUB OF N. C. INC. AWARD

Douglas Ray Phillips

HOMELITE

Charles Joseph Duckworth

Marvin Bobb Hula

ATHLETIC AWARD

William Lewis Aster  
Clyde O. Belangia  
Terry H. Brookshire  
Freddie Combs  
William C. Mann  
Russell Parham  
Willam G. Simpson

# Activities



"Hoop"



The Tenderfoot in Tennessee

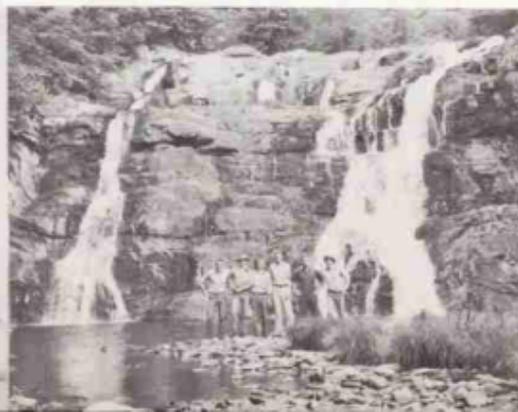
Broken Bow, Oklahoma . . .  
"We Won That Too"



"But Dean Preston,  
I Swear I Never Drove  
That Bus Over 45."



Getting Ready for the Picnic  
in the Piney Woods



## The Forestry Club



by

WALTON W. ROGERS

The Forestry Club started early in the fall with the following elections:  
President—Ferman Irby  
Secretary—Walton Rogers

Vice President—Glen Harris  
Treasurer—Dave Smith

On October 24, 1964, the annual fall Rolleo was held at Hill Forest. Barbeque, woodsmen's events, and the initiation of 20 new Club members were included on the program. The seniors won, but they had to fight the juniors for every point. The turnout of sophomores and freshmen was also very impressive.

Brian Fiacco was chairman of the pulpwood committee and was responsible for a considerable profit which was used to defray cost at the 1965 Conclave. Charles Duckworth, President of the Association of Southern Forestry Clubs (ASFC), pushed the Club and his committees from September until April 30, in order to make the 8th Annual ASFC Conclave "the best ever."

The spring semester saw Glen Harris, Walton Rogers, Bill Callahan, and Brian Fiacco lead the Club as President, Vice President, Secretary, and Treasurer, respectively. The well planned Fall programs included Dr. A. C. Barefoot's talk on his trip to England, Dr. R. C. Bryant's slides on his Alaskan adventure, and Dr. P. J. Dyson's "lecture" entitled "Systematic Analysis." Senior, Reagan Fox, was chairman of the program committee.

During the spring semester the Club sponsored the "famous" Loggers' Brawl and, of course, the 1965 Conclave. The Club grew to 51 members, 22 of which were graduating seniors and 29 of which were active, young, future foresters.

# Fourdrinier Society

by

JOHN PRITCHARD



The following officers started the Fourdrinier (Society) machine rolling for the 1964-1965 school year:

President—Harry Thomas Sanders

Vice President—Robert S. Chestnutt

Secretary—John S. Pritchard

Treasurer—Bennett R. Baird

Program Chairman—Ernest Calvin Clark, Jr.

The Fourdrinier Society was established at North Carolina State by the students in the Pulp and Paper Technology curriculum in 1957. Since that time many varied and informative programs have been presented concerning the paper industry. This year's programs were no exception.

The first program for the new year was very fitting since it concerned the career opportunities of a Pulp and Paper Technologist. A representative from Reigel Paper Company, Reigelwood, N. C., was the speaker. Dr. Alfred J. Stamm, Distinguished Professor of Pulp and Paper Technology, dropped by to show us some rather unusual slides of his trip to Australia. A representative from Chesapeake Corporation in West Point, Virginia talked to us about one of the coming innovations in the paper industry, continuous digesting. Other programs have been concerned with such things as dyeing of paper, drying of paper, and manufacturing of cigarette paper.

We plan to have our annual social in late April which always provides loads of fun and some "unusual" development.

# Forest Products Research Society

by

CHARLES L. LENNON

President—Art Holder

Vice President—Alvie Marcellus

Secretary—Ed Wall

Corresponding Secretary—Royal Loyd

Treasurer—George Disk

The objectives of the North Carolina State Chapter of the Forest Products Research Society are "to promote good fellowship among the students and to provide closer contact between students and members of the wood industry" and "to aid in the exchange of information on latest developments in the forest products field." These objectives are fulfilled by the monthly programs which feature prominent speakers in the wood industries and consist of informal discussions of such technical subjects as glueing, drying, quality control, and furniture production.

The membership of the Society includes Furniture Manufacturing and Management students as well as those in Wood Technology. The North Carolina State Chapter is closely associated with the Furniture Club and holds occasional joint meetings with them.

The North Carolina State Chapter was founded in 1951 and is the only recognized college chapter in the country. Under the capable guidance of Professor Roy M. Carter, past president of the national society, the North Carolina State Chapter of the Forest Products Research Society has been a source of information and inspiration for its members.



## Xi Sigma Pi, Mu Chapter

1964-1965

### Officers

Forester—C. J. Duckworth

Secretary-Fiscal Agent—J. F. Irby

Associate Forester—B. R. Baird

Ranger—H. T. Sanders

Executive Council Representative—Dr. R. C. Bryant

Mu Chapter of Xi Sigma Pi, National Forestry Honor Fraternity, was installed on April 20, 1940. Since that time it has undertaken various activities at North Carolina State College to better the School of Forestry and the professions connected with forestry.

All experiment stations send their publications to Mu Chapter. These are kept in the lounge for the use of all interested persons. Xi Sigma Pi awards an axe to the sophomore who attained the highest average as a freshman in the School of Forestry. Noted speakers within the profession are brought to the campus by Mu Chapter.

The most important function of Xi Sigma Pi is to recognize those students who show promise of becoming leaders in their profession and to promote better relations among students, faculty, the School of Forestry, and North Carolina State University.

## Summer Camp 1964

by

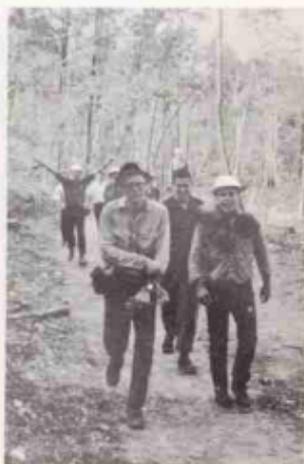
J. BRIAN FIACCO

June 8, 1964, saw George K. Slocum Camp at Forest Hill come alive with 48 potential foresters. Students from New England, Kentucky, Virginia, Honduras, Cambodia, and North Carolina filled the brown bunk-houses with boots, books, axes, and laughter. The summer outdoor laboratories had begun.

The first week was spent primarily getting organized, getting acquainted, and finding out what would be expected of us. Dr. J. O. Lammi, Camp Director; with his assistants, Conrad, "Rogerstein," Kirk and Winston collected fees, set up the kitchen, and sold a few black market items. The morning work crews were organized and the general camp atmosphere was a busy one.

It wasn't long before the action began. Mapping by moonlight can be quite challenging, especially in a summer thunder storm. Precision and accuracy were all a part of our daily routine. When a crew must re-measure over 100 trees because every D.b.h. was taken one inch to high, lessons are bound to be learned. The "Jokers Four" (Rogers, Schwanda, Brouillard and Deal) had their own system. When 3:30, quitting time for them, arrived and it was time to roll up the chain, it seemed easier to send the chain through a mowing machine and then carry the pieces back in their pockets. Inevitably, whenever the factuly came around to inspect the progress of "Crew J." the Jokers would be taking five at the nearest pub.

With Will Mann's attraction for snakes and Herb Kirk's constant association with accidents, hazards were always a potential threat. It is



still a mystery as to what caused the ground fire during a dendrology quiz. The Fire School at Kinston was of definite educational value, especially since the State boys had had previous experience.

On July 18th the pilgrimage to the mountain camp began. Larry Jervis and "his" truck filled with kitchen equipment and the cooks, led the expedition. Kurt Peterson and his Model A helped the bus along and ten hours later they limped into the Wayah Bald Camp. The mountain camp was a refreshing change, especially since we had cool weather, Joyce Kilmer, and Highlands to look forward to.

The first week was spent primarily around the Wayah Bald watershed area learning about recreation, watershed management and mountain logging operations. Two enlightening days were spent at Joyce Kilmer in which the emphasis was on the contrast between northern and southern exposures. The giant hemlocks and poplars that we measured will be a constant reminder as to what nature is capable of producing.

Highlands was the entertainment capital of the world as far as we were concerned. The girls, the clogging and the refreshments were all a part of our weekends. It is still amazing how Ken Johnson made it back so many times safely after having such a "good" time.

All good things must come to an end and the 1964 Summer Camp was no exception. When the final days arrived, refunds, special events and exams occupied our time. It appeared that Dr. T. O. Perry and Dr. A. C. Barefoot knew what our little minds were thinking. The last few days they wore tennis shoes, old pants and soiled shirts. Sure enough, we threw them in the lake and felt much better afterwards.

On August 15th the general chatter was not of logging, dendrology or management, but rather of girls, beach trips and relaxation. It was even rumored that Summer Camp had been worthwhile, that we had actually learned something, and that our trips to Canton and Bemis Lumber Co. had shown us the possibilities of jobs after graduation. Even though we had set several fires, had our share of accidents and skimped on our bug collections, we had few regrets. Our summer outdoor laboratory had ended.



## Rolleo 64

by

PHILLIP G. CONNELL

Summer Camp's Hill Forest was the scene of the annual fall rolleo for 1964. The weather turned out clear and cool to match the invigorating spirit of everyone who attended. All four classes as well as the faculty were well represented. The juniors, fresh from summer camp, were eager for a repeat performance of last year by trying for an upset victory over the seniors. Tom Harris provided the capable leadership and events were under way by late morning.

Slow was the start as junior Dennis Curtin threw the chain a little less slowly than senior Ferman Irby. The sophomores and freshmen missed out on this event due to a late bus but were given a "make-up" event later in the program. Next, Barr Brooks won handily (his second straight year) in the DBH estimation.

Ax throwing and knife throwing proved to be close all the way. Phil Connell managed a victory for the seniors over junior Bill Callahan in the ax throwing. In knife throwing, however, Connell could only manage a close second over the sophomore Bill LaRoque while Bryan Fiacco provided the juniors with their second first place of the day.

With the morning wearing on and the scores still very close, seniors Al Marcellus and Dave Smith showed championship conclave form by taking a first in the cross-cut event over juniors Dennis Curtin and Dave McDougal. The time was 24 seconds flat. Immediately following, Marcellus added to his list of victories for the seniors by taking bow saw in hand and ripping through an 8 by 8 pine cant in 23.3 seconds. He was followed by the junior's Dave McDougal with a time of 28.2 seconds.

The "make-up" event was a turkey shoot in which freshman William Hamilton out shot Bill Smith to tighten the race for third place. About this time the lunch bell sounded and rivalry was forgotten as the boys settled down to the forestry club special: BBQ, slaw, and hush puppies.

Lunch time proved to be quite profitable for Marvin Hula and Charles Duckworth. Both received halves in an outstanding senior scholarship given each year by the Homelite Chain Saw Company.



Smith and Marcellus win the cross-cut event as an expert buckler looks on.

Following lunch the freshmen set out to prove that they also wanted some recognition. William LaRoque out muscled junior Dave McDougal to give the freshmen first place (their second of the day) in the pulp toss.

Log rolling was the next event and everyone looked on with anxious eyes as "Phantom" Ardrey and "Crow" Duckworth, winners

of the 65 Conclave and expected winners of the rolleo, prepared to roll the log. They started fast, but as the log rolled from side to side knocking over stake after stake, it became obvious that championship form was missing. When the final results were tallied, sophomores Smith and LaRoque had won with the excellent time of only 29.5 seconds, winning over juniors Kraus and Huehnel. Arderly and Duckworth took fourth.

In pole climbing, Walton Rogers renewed the juniors bid for first place by outclimbing senior Joe Spencer. This lead was short lived, however, as senior Marcellus with sharp ax and superb form won easily over all competitors in the ax chopping. The junior's Dennis Curtin finished second.

The next ten minutes of the rolleo kept the crowd rolling in laughter as one representative of each class entered a ring with a back pack fire pump in their hands and cigars in their mouths. The object of the fire fight: To put out all other contestants cigars and smoke as much of their own as possible. Ten minutes and four water-soaked cigars later, senior Jim McGraw merged winner (by a fraction of a centimeter) over junior Ken Johnson.

The last event of the rolleo was the tug-o-war. In first round action the seniors out pulled the freshman and the juniors won over the sophomores. For consultation position the freshman won over the sophomores. Then in the final competition of the day the senior team, after a long tiring struggle, managed to pull the junior team over the line.

Final scores showed the seniors with a close first place over the juniors. The sophomores took third place but equally close over a nervous but spirited freshman team.

When rolleo events ended, initiation of freshmen and all new members proved to be the hardest competition of the day. The new members were put through all sorts of vigorous mental and physical exercises. Revenge was sweet for the initiates, however, as word got around that rolleo day was also "Phantom" Ardrey's birthday. For the second time in one year, Phantom ended up in the Hill Forest pond.

Good attendance by all, spirited participation by the students, and excellent judging by the faculty made the 64 rolleo an all round success.



Dr. Miller, Dr. Hoffman, "Dean of Students" Liles, and Proff Wyman.

## Loggers Brawl

by

GLEN "HAZARD" HARRIS

The Loggers Brawl of '64 will long be remembered in the minds of all N. C. S. U. foresters for the good food and good times we had, and for the long awaited good riddance of the "Phantom's" famous hat. Mrs. Liles and Miss Rose were, as usual, very helpful working all afternoon on the decorations for the dance and, also, in the heating and serving of the much enjoyed barbeque and hush puppies.

The Brawl got underway about 4:00 with all the guys and their dates getting together down by the pond for introductions and the passing around of the jug of old Stump Blower for the first of many times. After becoming socially stoned, the "Phantom" began his voyage across the pond on the not-to-stable summer camp raft. He did not even get up a full head of steam before into the water he went with a loss of both pride and hat. Dry clothes were waiting on the bank however, so all ended well except for the loss of the hat, which everyone but "Phantom" didn't seem to mind. About this time "Ferby" and his date came upon the scene and to this day "White Owl" has not been forgiven by his roommate for the first and last blind date he ever got him. Irby surely got a loser, but he's got a harem now so it's all even.

About this time Mrs. Liles called "soups on" and there was a mad dash to the cook shack for the barbeque and "Dyson-colas" which we all enjoyed. After this we adjourned to the pines for a few minutes. Soon we heard Jody Rose and the boys tuning up and the bunk house was instantly filled with both faculty and students who were intent on having a good time, either dancing or merely watching Dr. and Mrs. Perry do every dance from a fox trot to the watusi. We danced long and hard and everyone had a good time and walked away with the memory of having been to a great Loggers Brawl, and with high hopes of having even a better brawl in '65.



# 1964 Wood Technology Summer Practicum

by

PAUL HIGGINS

This year's summer practicum consisted of two five-week sessions. The first session was held with the furniture manufacturing boys and was to teach us a little about manufacturing furniture. The second five-weeks, we were under the direct charge of Prof. Roy M. Carter or, as we know and love him, "Short Roy". This took place without the furniture boys, thank heavens.

The objective of the first five-weeks was to start with lumber and veneer logs, manufacture all plywood and furniture parts to a cutting order, and end with completely finished furniture. We were to do all of this in the Wood Products Laboratory here on campus.

Our first need was for kiln-dried lumber. Short Roy undertook the formidable task of instructing us in the use of the kiln. After stacking a charge and cutting about thirty kiln samples, we started the kiln. Aside from operating the kiln, we had one main headache, charts and graphs. Short Roy has a chart for everything and a bigger chart to keep track of the littler charts. We were so busy recording and measuring we hardly had time to dry the lumber. After drying the lumber and cutting the parts, we went on to bigger and better things!

We decided our professors were not knowledgeable enough to teach us all we had to know about glueing and finishing in order for us to do a good job on our night stands. We decided to go to the horses mouth, mainly the furniture factories. Accordingly, a week-long plant trip was arranged to Lenoir. Mac was to be our trusty chauffeur, and we were to take the reliable forestry bus. All I can say is, that was one hell of a long trip! If you were in the front of the bus you burnt up, and if you were in the back you bounced about and were choked by fumes. It was here that we first started to play bridge. It was innocent enough at first, and there was no hint as to the things to come.



Close Observation

When we first arrived in Lenoir, we pulled up in front of the formidable and breath-taking Carlheim Hotel! It was formidable, for it had the tremendous porch and high roof of the late 19th century, and it was breath-taking because it looked as if it would fall down any minute. At least it had such conveniences as running water and beds. This was better than anything else we had seen. (This was the mountains you

know!) After a hard day of touring furniture companies, (some of us even took notes) we decided to see what the town had to offer. The only thing to offer itself was. . . Oh, excuse me, I was rambling! We did find a beer parlor and an Elvis Presley movie though. It was even said that one of the furniture boys was seen wandering over the top of the local Colonial Store with a cool six-pack in each hand! A week was spent in this way. We saw such places as Blowing Rock Fur. Co., Nu-Wood Corp., National Veneer Co., Broyhill Fur. Co., and Kent Coffey Fur. Co. On the long ride back to Raleigh we discovered the wonderous power of observation. From our vantage point in the bus we could see some mighty interesting cars pass!

Arriving back in Raleigh with our new-found knowledge, we set about the task of completing our night stands. It was while glueing up tops on the high-frequency gluer that one of the furniture boys (You might have known!) was curious and wanted to see if the gluer would glue his hand. He stuck it in and promptly found out! All in all, we managed to get the night stands together with no real casualties, thus preserving the lab's record another year. (Better luck to you next year.)

In order to finish the article of furniture we had made, it was necessary to use the spray gun. It doesn't seem hard until you try it. Judging from some of the finishes that resulted, some people never learned. If a coat wasn't sprayed too thick, it was sprayed too thin. And if we got too good, the professors changed from an air spray to an airless spray. They were really beautiful articles of furniture! As our night stands went, so went the first five weeks.

The second five-weeks was left to Prof. Carter to do with what he liked. We took up logging and milling. This time the group was more compact and congenial as it only consisted of Wood Tech boys. There were eight of us, including one graduate student from Pakistan.

We started out this session by visiting certain small mills that were located about Raleigh. We decided that this was more in our line than furniture was and began to take an interest in our work. One day while coming back from one of the sawmills, Short Roy suddenly got a wild idea that our education was not complete until we had set eyes upon a peckerwood mill. For those interested, a peckerwood mill is a small portable sawmill that is located directly on the tract of land to be cut. Usually said mill is located in the middle of nowhere. As I was saying, Short Roy decided we should see one. When we turned off the main road onto a narrow, rutted path I began to get an uneasy feeling. I knew my Chevrolet was no Jeep, but Short Roy, who was driving ahead of me, seemed to think his was one of the 6 by 6's at the lab. We bounced through fields and over creeks until we came to a big hole. Short Roy took one look and, with a gun of the motor, was off! He slipped and turned and skidded and eventually landed on the other side. I fastened my seat-belt and, with the conviction that anything Short Roy could do, I could do better, took off! Thirty minutes later I landed on the other side! After gazing upon a little lumber, a little sawdust, and a little mill, we left. All of us were much inspired.

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## N. C. State Victorious at Broken Bow

by

TOM HARRIS, JR.

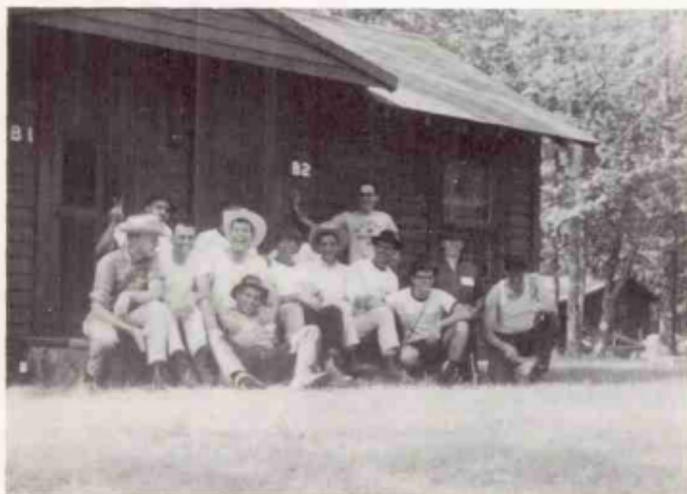
Seventeen members of the N. C. State Forestry Club brought the victory flag home from the Seventh Annual Conclave of the Association of Southern Forestry Clubs held in Beavers Bend State Park, Broken Bow, Oklahoma in May, 1964.

The State team earned 47 points to defeat Arkansas A&M with 40 points and Clemson with 38 points. Pre-conclave favorite Georgia was an "also-ran" with only 13 points.

In achieving State's first conclave victory the group overcame many obstacles. They practiced hard, rode the furthest, completed the toughest, and partied the most.

Despite the rigorous academic load of the State competitors and the dubious looks by the faculty, the team put many hours into the practice sessions. The final team was chosen by a spring rolleo which featured some rugged competition.

Four rented cars were used to make the trip which was uneventful except for the last-minute, pre-dawn search for "Dink" Tillman. "Dink" was finally found in the "little brown shack out back".



They said it couldn't be done.



Which way to Oklahoma?

The State delegation arrived in Broken Bow early Friday morning. They spent the day either sleeping, touring Texas, practicing for the next days contests, or rehearsing for the upcoming victory party.

N. C. State's team showed its superiority early Saturday morning in the technical events when Irby, Brooks, Gregory, Tillman, and Ferrari all placed in their respective events: dendrology, d.b.h. estimation, timber estimation, pole classification, and wood identification.

Al Marcellus was high man in the afternoon's events with firsts in bow sawing and log chopping. He and Curtin teamed up to win first in the cross-cut sawing. "Phantom" Ardrey and "Crow" Duckworth placed first in log rolling. New ASFC records were set in all of these events.

"Hazard" Harris, after being carried bodily to the firing line, was unable to score in the bait casting contest and was transported to the local medicine man to receive a cure for blood (not lead) poisoning. Bill "Phantom" Ardrey also was barely eliminated in log burling. These two events were two of the most disappointing happenings of the day.

Following the early morning victories in the technical events the State contingent began the most unique party since the movie "Tom Jones". At 9 a.m. the first round of refreshments was obtained; by 3:30 p.m. no Budweiser was left in Broken Bow, Oklahoma. The shortage did not harm the banquet however, and it proved to be a quite interesting event.

The State men left Beavers Bend State Park early Sunday morning with several cords of walnut trophies and several big heads tucked away as bounty for a most successful trip.

## Progress Report for 1964-1965

by

R. J. PRESTON, Dean

There are many interesting and progressive activities to report for the 1964-65 academic year. Each year the complexity and diversity of our programs make it increasingly difficult to provide a clear picture of total achievement in a brief report. Some idea of the scope of activities of the School is apparent from the growth of the forestry budget which now totals some \$900,000., of which well over half comes from sources other than State appropriations. As of last June our alumni numbered 1252, with about 90 more to be added by June 1965. Our student body this fall totaled 415 students, coming from 28 states and 21 foreign countries. Included in this total were 68 graduate students, some 29 of whom were working for the Ph.D. degree.

The strength of any school is a measure of the achievements of its alumni, the quality of its student body and the caliber of its faculty. I believe we rate well on all three counts. As I write this seven faculty members are in contact with employers seeking to entice them to other positions and I can only hope we will continue to be as successful as in the past in holding together the fine group of scientists that now make our school. As always our faculty is most active and only a few major achievements or recognitions can be listed here:

1. Dr. Ellwood is serving as President-elect of the Professional Society of Wood Science and Technology and will take over the Presidency in June 1965.
2. Dr. Maki has been awarded a Fulbright Fellowship for study in Finland and Sweden during 1965-66.
3. Mr. Kellison has received a grant from the Swedish-American Foundation to work with Swedish geneticists during the summer of 1965.
4. Other foreign assignments since the last progress report include Dr. Barefoot's participation with an archeological expedition to England, Dr. Zobel to the Bahamas and Brazil and Dr. Saylor to the Bahamas, during the summer of 1964.
5. Dr. Stanley K. Suddarth, Professor of Wood Technology at Purdue University, has been with us this year as Visiting Professor working with Dr. Jayne on a contract with the Office of Naval Research to develop a non-destructive test for plywood. Results to date are promising and we have enjoyed having the Suddarths with us.
6. Dr. Duffield, Dr. Ellwood, Dr. Maki, Dr. Stamm and Dr. Jayne served as Visiting Lecturers to other forestry schools on National Science Foundation sponsored programs. Dr. Duffield will also direct a program in Forest Biology for high school teachers over a 10-week period during the Summer of 1965. This program is supported by the National Science Foundation.
7. Dr. P. J. Dyson was appointed Assistant Professor on July 1, 1964. Dr. Dyson has a joint appointment in Forest Management and Wood

Science and Technology, teaching Forest Economics to the sophomores and doing his research in the Utilization field.

8. Dr. J. T. Rice was appointed Assistant Professor of Wood Technology on July 1, 1964. Dr. Rice's work is in the area of glueing.
9. Mr. Stephen J. Maddock, an employee of the Southeastern Forest Experiment Station specializing in recreation research is stationed at the School with the position of Assistant Professor.
10. Mr. William B. Stuart has joined the Forest Management Section of the Extension faculty, filling the position vacated by John Gilliam.
11. Dr. Robert L. Barnes and Dr. Louis J. Metz, employees of the Southeastern Forest Experiment Station in the Research Triangle, have been appointed Adjunct Professors of Forest Management and Forest Soils respectively.
12. Dr. Arthur Kelman, Reynolds Professor of Forest Pathology is resigning to become head of the Department of Pathology at the University at Wisconsin. Our alumni will regret with us the loss of this outstanding teacher and scientist.
13. Dr. Ellis Cowling, now on the faculty of Yale University is replacing Dr. Kelman with a joint appointment in forestry and plant pathology.
14. Fred Whitfield, Extension Specialist in Forest Insects and Diseases now holds a joint appointment as Associate Professor of Forest Management and Entomology.
15. Ross Douglass returned from a year's leave of absence, working on the Doctorate at Duke University and Leonard Hampton went on graduate study leave February 1, 1965, working on his Master's degree at N. C. State.
16. For the next two years William Keppler, Head of the Wood Products Extension Section will serve half time as a consultant with the Federal Extension Service.
17. Mr. Ray Smith, a graduate of N. C. State and formerly Personnel Director for Albemarle Paper Company, has taken over as Executive Secretary of the Pulp and Paper Foundation.
18. Dr. Hart and Dr. Davey both received the Sigma Xi award for outstanding research. Dr. Davey was also the recipient of the Campbell Soup Company research award for outstanding achievement in soil microbiology.
19. Your Dean continues to spend far more time in Washington, D. C. than he would like, as President of the Association of State College and University Forest Research Organizations, as a member of the Cooperative Forestry Research Advisory Board, and as a member of the Agricultural Research Planning Committee.

Several special School activities during the year merit mention:

1. In the summer of 1964 we participated in a Peace Corps program, training a group of seventeen foresters for service in Chile. Gerald Garthe, a former member of the Peace Corps and one of our Graduate Students, was responsible for our part in the program. Gerald has since accepted a full time position with the Peace Corps.
2. The Eighth Annual Conclave of Southern Forestry Schools is scheduled in Raleigh for April 30-May 1. Some two-hundred representatives

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# The Extension Forestry Program

by

W. M. KELLER



Standing (left to right) Dixie Hobbs, Bill Santon, John Gilliam, Bill Huxster. Seated (left to right) Bill Keppler, Walt Keller, Fred Whitfield, Priscilla Revels, Inez Tucker.

The extension forestry program is a part of the Agricultural Extension Service. It is the largest extension forestry program in the nation and is widely recognized for the excellence of its staff and for leadership in developing new concepts and techniques. Extension forestry personnel have a dual status as members of the faculty of the School of Agriculture and of the School of Forestry.

The extension forestry program is set up to reach and help timber growers, timber buyers, and primary and secondary processors. This program has three major objectives:

1. To help assure the people of the state a wood raw material base adequate to meet present and future needs.
2. To help farm and other private individual forest owners increase forest earnings to \$100,000,000 per year.
3. To help stabilize and strengthen the competitive position of the state's wood-using industries.

The extension forestry program, under direction of the Extension Forester, is divided into two sections; Forest Management and Wood Products. The programs of these sections are closely coordinated with the teaching and research programs in the Forestry School's departments of Forest Management and Wood Science and Technology.

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# The Hofmann Forest

by

J. V. HOFMANN

Development of Block 10 is completed to the point where all areas are accessible and the principal drainage canals are constructed. The program of technical forestry is now being undertaken and complete records will determine the value of the investments. Timber cutting has been based more on an economic than forest management basis. Cutting has generally been conducted in accordance with good management principles although production records have not been kept. Most of the old stands of timber, (mostly pond pine) burned and flooded have been cut.

Young stands of seedlings, to pole size, cover nearly all of Block 10 and records will be made this year of the conditions on the area.

CFI plots will be established over the entire area. The grid has been made for placing 50 plots in order to get complete coverage. The plots will be established and recorded by the same crew that will remeasure the CFI plots on the forest. This procedure will make it possible to combine the plots on Block 10 with the forest, or to compile them separately.

The Albemarle Paper Manufacturing Company plans to remeasure the CFI plots this spring.

The experimental area in the big opening has been remeasured in 1964 and the results are being analyzed. Apparently some treatments are producing better growth, and soil and vegetative conditions are showing varying results.

Development of the forest is progressing along the same method as in the past, however only one dragline has been operating during the past year. Drainage and road construction has reached most of the timber areas, consequently the program has been reduced although it is continued in the open and non timbered areas.

Personnel changes on the forest: James L. Huff has been transferred to Roanoke Rapids.

Wallace Wicks is now in charge of the forest. He was transferred from the Roanoke Rapids office.

The Albemarle Paper Manufacturing Company expects to begin site preparation and expand the restocking program as rapidly as feasible.

Block 10 is stocked medium to good with few local exceptions. As soon as the growth plots are completed the entire area will be analyzed as to requirements for improvement. This will require records on local areas or compartments.

A long term plan will include cutting budgets and methods of cutting to insure restocking.

During the past year some of the hardwood areas have been cut. The upland hardwood is of little value except pulpwood although with drainage and roads these areas become very good pine sites.

Hardwood stands on the forest should be cut in order to convert the upland hardwood areas into pine and to salvage the mature and over

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## The School Forests

by

RALPH C. BRYANT

You have all read with interest the yearly reports on the Hofmann forest by Doc Hofmann. The Editor suggested you might also like to know the current status and recent developments on the Hill, Hope Valley, and Schenck forests.

The philosophy of management for all three has been basically the same. The objectives have been to manage each of the properties so that they would make a maximum contribution to the School's teaching and research programs and to its financial needs. Although these goals occasionally conflict (you can guess which has the highest priority) the results achieved in most cases have been favorable.

On the Hill Forest, George Slocum's practice of annual clearing and planting has been continued and today there is a complete series of plantations from 1-31 years of age. These are an invaluable asset for instruction and research purposes. This year some 22 stands of the older plantations are being cut in a general thinning program involving some 1200 cords of wood. Credit should be given to Doug House '47, the successful bidder, for a careful and excellent thinning job. Some 300 M ft. b.m. of sawlogs have also been cut in the last three years. Receipts from these sales have helped finance graduate students, new equipment purchases, and research projects.

We are hopeful that a substantial appropriation request for modernization of the Slocum Summer Camp will be approved by this Legislature. Many of the facilities at camp need replacement and there are tentative plans for a series of four-man student cabins which we hope will provide a better atmosphere for scholastic achievement.

The announcement of the construction of the New Hope Dam has had profound effects on the management plans for the Hope Valley forest. Some 958 acres of the forest will be flooded by the dam, leaving a peninsula of 593 acres jutting out into the lake. In anticipation of dam construction the School has already sold (for clear-cutting) 945 M ft. b.m. of sawtimber and 644 cords of pulpwood. The balance of the timber on the uncut land to be flooded has been sold to the North Carolina Prison Department under a long term cutting agreement involving some five million feet of sawtimber and over three thousand cords of pulpwood.

Several research projects are in progress on the area not to be flooded, the most ambitious being a 100-acre pilot study of the financial merits of even-aged vs all-aged management of loblolly pine.



Schenck Forest

This spring an intensive inventory of the Schenck forest has been taken including the installation of permanent plots for future inventory data. A tract of some 24 acres has been surveyed and set aside as a natural area for future research and recreational purposes. Included are several stands of fine loblolly that average four and one-half logs in height.

Much of the afternoon laboratory work in management, silvics, and silviculture is concentrated on the Schenck forest, and Bruce Zobel has three extensive areas of seed orchard and vegetation bank well established. The construction of the new football stadium close by and the proposed construction of new access roads to it will probably create recreational demand for use of the forest in the future, and we are trying to anticipate these needs now. Thinnings of the large plantation and adjacent stands in the last five years begin to make the forest look like a textbook example of forestry.

When you get back to Raleigh or vicinity, plan to take a quick trip around the properties. You can judge for yourself how good the School is in practice as well as in theory!

(Continued from page 60)

Work with timber growers is conducted by seven extension forest management specialists working through more than 300 county agricultural agents. These seven specialists serve as technical field leaders to carry research findings to the State's forest landowners, and devote one hundred percent of their work time to raw-forest-product growing, harvesting and marketing. They provide forestry-leadership training, planning and program assistance to the county agricultural agents. Most of their program effort is conducted with and through these agricultural agents. Six of these specialists are assigned to individual geographic areas where they handle all general forestry problems, but they also work state-wide in one specific-problem area in which they have specialized, such as watershed management, insects and diseases, tree planting and forest soils, Christmas-tree production, outdoor recreation, and bottomland hardwood management. The seventh specialist serves as Section Head.

Work with buyers and primary and secondary processors was started in 1956. This work is conducted by four wood products specialists who work directly with industry clientele, and make up the Wood Products Section of the Extension Forestry Department. These men work state-wide, often pooling their talents and knowledge to work as a team. They work with industry in such specialized areas as: logging and assembly, equipment and machinery, drying, preservation, product promotion and merchandising, operations analysis, plant feasibility, and plant location. The primary objective of this Section is to keep North Carolina's wood products competitive.

Thus, there are twelve professional foresters (including the Extension Forestry Department head) serving as subject-matter staff specialists. There are no foresters employed at the county level.

Changes in personnel within the Extension Forestry Department since July 1, 1964, are covered elsewhere in this *Pinetum* in Dean Preston's report.

## A Second Look at the Cooperative Plan of Students Industry and Faculty for Students Summer Work

by

DR. PETER J. DYSON

In April of 1964 while attending a week long school in a Southern university I heard the following remark, "Foresters won't take those tough courses of statistics and math when their pay scale is so low. If they have to take tough courses then they may as well take engineering and get a better wage." Needless to say I challenged the statement. In my brief experience I find there is a demand for students who know the tools of analysis (statistics, economics, and engineering) and can apply them in forestry situations. These students can get wages commensurate with engineers. However many employers do not think of foresters for jobs other than the growing of trees. This is the fault of all these associated with the profession, but particularly the schools.

We in the schools are producing a product for the market. We should keep abreast of the demands of the consumers to make sure that our product satisfies the market. If we are going to satisfy the whole market it is necessary to diversify and produce a variety of products. Unfortunately however, all our products carry the same label, forester, without regard to type or quality.

Starting in the summer of 1963 an experiment was carried out in which a student was employed by industry with the express purpose of showing that given the tools of analysis as presently available to our students, plus a little supervision, these students can develop answers to the questions which are of vital interest to management. "What will happen to production, costs and returns if a change is made in the system?" This change could be anywhere, in the growing of trees, the harvesting of timber, the processing of lumber, or the manufacturing of wooden products.

At the close of that summer an old timer remarked that, unconsciously or consciously we had done something for the boy that he couldn't possibly have done for himself. In the space of 3 months we had brought him to the attention of top management in a manner that it would normally take five years. This was a natural buy-product of our activities.

The past summer saw 8 students in the field an increase of 800 percent. The problems analyzed were in the woods, the sawmill, the planing mill and secondary processing. The students were both undergraduate and graduate, forest management and wood products. All employers were more than pleased with the results even though not all students could say we saved the company a specific amount of dollars. This may be because the extension and teaching faculty who supervised the activities were taxed to the limit of their time and resources. Hence in some instances the supervision was spread thin. However, these students who took an active part and showed initiative are obtaining jobs with salaries above the forestry average.

The experiment indicates that students, industry and faculty can cooperate to the mutual benefit of all. Now the question is, do we want to enlarge the project and if so how should it be done?

There is already some talk that this project would be ideal for all wood products students. To which I say "Horrors!" I hope I don't have to supervise them."

In the first place I don't believe all our students are ready to "really" work. I don't mean to insult them but frequently students are not honest with either themselves or their employers. They don't put themselves into the job because it is only temporary. They may justify their actions by doubting the integrity of their teachers but this doesn't help them. Too many of our students are "C" and below because they are either indolent, indifferent, careless, tired, frightened or distressed.

These habits may be because of their home, their community, their previous schooling or their present teachers. Regardless of where the habit developed I want no part of that student in a summer program. The main reason for this is we need to be able to place confidence in the data collected and analyzed by the student. The information may be the basis for the investment of considerable time and sums of money.

The only type of student I want is one that has enthusiasm, drive, energy, honesty, imagination and the ability to think.

Many of the students believe they had all these prior to coming to college but as school progressed energy, drive and enthusiasm dried up. This, they blame on the unenthusiastic dull teachers. This may in part be true but it isn't the whole answer.

Prior to coming to college, many or most of the high school courses were survey type. However, eventually a student has to take basic courses which require a great deal of individual study without a specific end in view. These courses "floor" a student accustomed to speed or skim reading. The teacher in turn may think the student dull as his interest is never stirred off dead center.

I believe the answer is that frequently neither teacher or student has ever learned the parable of going the second mile.

I believe the student who reads two chapters ahead of the class instead of two behind may find the dull teacher would brighten up if an original question came from the floor. I believe those students who sit like dull clods are a tremendous drain on a teacher's vitality and eventually make for a dull class.

Any success I've had in teaching has come from the students in class who are wide awake, thinking and are following the subject. These are the ones who stop me when I've made a mistake or stated a principle poorly. These are the ones who bring all their background subjects to the class and as such raise questions which stimulate additional questions and thoughts. These are the ones who make for successful teaching experience.

These same students are the ones I'd like to work with in a summer program. These are the ones, employers are looking and searching for. These are the ones which make a dull class come to life.

Students, quit being so bourgeois!

## Loggers' Games

by

T. G. HARRIS, JR.

"I can run faster, jump higher, squat lower, move sideways faster, and spit further than any son-of-a-#\*@?! in camp," an old logger once boasted. Such a spirit has given America one of her most colorful athletic events—the loggers' games.

Loggers' games reportedly began in Paul Bunyon's logging camp about three centuries ago. The French-Canadian and Yankee loggers in the old logging camps used the contests to show their superiority in their working skills and to work off any excess energy. The most competent competitor was thought to be the most manly, or the so-called "bull of the woods".

Competition served several purposes in the logging camps. For example, the man shown to be the best axeman in a camp was known as the "head-chopper" and received extra pay. The head-chopper's status was great and many such figures became legends in the "northwoods".

Competition between crews improved production, and high production was a goal of each member of the spirited logging crews.

Loggers competed in many contests also to show their prowess. Speed chopping, bow sawing, cross-cut sawing, log burling, log rolling, and tobacco spitting are just a few such events.

Speed chopping, once the important determiner of the head-chopper, came to be supplemented by cross-cut and bow sawing contests when saws were introduced to the "log woods" about 1890.



The spring river drives, when logs were floated down the rivers to sawmills and pulpmills, were dangerous and exciting. A contest known as log burling allowed the river men to show their skill on floating logs. In this contest, two competitors stood on opposite ends of a floating log and tried to topple each other by shifting their balance and spinning the log.

Log rolling was a contest in which teams of two men used peaveys to roll a log over a course. The fastest team won. This contest came into being when manpower was used to roll logs to the water's edge prior to floating them to market.

Loggers have long been notorious users of chewing tobacco and snuff. Inevitably, loggers felt the necessity to determine who could spit the farthest or the most accurately. This contest is the loggers' most unique contribution to the world's repertoire of athletic events.

Loggers' games have not become a totally forgotten part of American folklore. These contests are held in virtually every part of the United States, in Canada, and in Australia. Some states, New York for example, hold state championships. Loggers' games are part of the Quebec Winter Carnival each year. The Association of Southern Forestry Clubs holds these events in the South annually.

Loggers and college students from the United States meet Canadian and Australian competition for the World Championships periodically.

The business of "letting daylight into the swamps" has become highly mechanized and has a lot of the old, rowdy, exciting spirit. Loggers' games are a way of preserving a part of the American heritage.

\* Editor's note: The above article was written for the *Raleigh News and Observer* to publicize the Association of Southern Forestry Club Conclave at N. C. State U. this spring.



## Archaeology—and Wood Winchester, England

by

A. C. BAREFOOT



The Cathedral at Winchester

Winchester, England—One of my most profitable and pleasant experiences came about as a result of the combination suggested in the title of this article.

In the spring of 1964, Professor Urhan T. Holmes of Chapel Hill and Professor Martin Biddle of Exeter, England, asked that we send over to England a wood technologist to work in their excavation project. They were interested in applying the techniques of dendrochronology to some huge timbers that Professor Biddle knew were buried in an area of Winchester, England and which were to be completely excavated in the summer of 1964. By other means of archaeological dating, these timbers were thought to have been in use during the 10th and 11th centuries. Professor Biddle, a mediaeval archaeologist in charge of the long range excavations at Winchester, knew of the work of Douglas in dating timbers of the U. S. southwest and was therefore anxious, if possible, to similarly get the exact year of cutting for the timbers in England. Such information as this would then allow him to match records of the Winchester archives with his ground observations and therefore more fully describe the life and culture of mediaeval England—a period with little written information to this day.

Professor Holmes had been in England the summer before and discovered the work of excavating going on in Winchester. He became enthralled with the project—interested in the house timbers preserved under the water table level—and proceeded to negotiate a joint cooperative project involving the Winchester Excavations Committee, the University of North Carolina and Duke University. Students and staff members of the two universities were invited to work in England and thereby Professor Biddle had one of the largest archaeological “digs” going anywhere; certainly with the largest number of Americans involved.

For the month of August then I prowled among the 11th century beams in the cathedral at Winchester, examined the oak chests for storing the old records of Winchester College and otherwise was introduced to the England of William the Conqueror. At this stage of our study we are vitally concerned with the development of a valid chronological chart for the tree growth of the Hamp-



Timber found in excavation

shire Country area. Upon this chart depends our real hope for dating the timbers in the ground. Carbon 14 dating will be used to put the timbers in the correct century but only by the chart can we hope to find the exact year.

Since some of the house timbers are approximately one and one-half feet square, with bark intact on the outside edges, the year of cutting can be determined if the chart of such a varied micro-climatic region can be perfected. The timbers are now out of the ground and measurement studies in progress. The residual wood quality of the beams varies from highly decayed and spongy to a bright and solid character depending upon the state of preservation at the time of submergence by the water table.

To return briefly to the 11th century timbers in the cathedral before ending this note is to return vividly to an era which brings amazement to a forester today—oak beams,  $1\frac{1}{2}$  ft. x  $1\frac{1}{2}$  ft. x 45 ft. long, and roof rafters, 8 inches x 8 inches, with their original Roman numerals for correct placement in the roof, perform their task of supporting a heavy lead roof today as adequately as in 1093. The effects of the infamous Death Watch beetle are to be seen but so are those of the men who have learned to control the beetle.

Mr. S. A. Richardson of Richardson and Starling Ltd. was among the most fabulously interesting of the many delightful people I met during the summer. His stories of the Death Watch and the dry rot, *Merulius lacrymans*; his excellent amateur cinemas of these and the bird populations of the English Isles; and particularly his enthusiasms for living will rank him among the most inspiring people I have ever known.

Of a different mold but equally alive and innovating was a former soldier from India, John Long, now an entomologist with Richardson and Starling, who was bubbling with an adventuring outlook on research in restoring historical objects of wood and metal. Mr. Richardson's son, Barry, and Lou Woodhouse, both inquiring wood technologists, rounded out the exciting daily crew I worked with—visits with the staff of London and Oxford Universities and the Princes Risborough Laboratory rounded out my association with scientific contemporaries.

At the time of writing this note Mr. Biddle has returned to the States and has just presented for us an enlivened seminar on the scientific disciplines involved in the archaeology of Winchester. Such an adventure in the broad but deeply interlacing of disciplines certainly had more rewards than I can truly recount to you here.

(Continued from page 61)

mature trees in the areas that should remain in hardwood production. Hardwood markets are available now and should be utilized.

Loblolly pine and slash pine plantations were thinned during 1964. Some of these areas were thinned the second time. The stands contain about 120 trees per acre now and may not require another thinning. About 10 years after this cutting conditions will indicate whether a log thinning will be desirable.

# Non-Destructive Testing of the Nose Cone of the Polaris Missile

by

B. A. JAYNE

It is unknown to many people in forestry and the wood industry that wood is one of the vital components of the intermediate range Polaris missile. The nose cone of this particular missile is fabricated from nine-ply Sitka spruce plywood bonded with a light-weight epoxy resin film.

The cone functions to house the telemetry equipment used for missile guidance. This cone is essentially a paraboloid in shape. It is approximately 5 feet in diameter where it couples to the engine casing of the missile and tapers to a diameter of approximately a foot at the upper end.

Wood is used in this particular application because it provides for the communications equipment the necessary protection from extreme forces and temperatures during flight. Wood also is transparent to the high-frequency radio waves of the telemetry equipment, an essential property of a nose cone material. It is reported that the first two layers of veneer are badly charred in the brief 80 seconds following launching. Since, however, the mechanical properties of wood are relatively insensitive to high temperatures, the rigidity of the cone is maintained during this critical period. After this initial period the cone has served its function; it is separated from the missile which continues on to its destination.

There has been concern among personnel working with the Polaris as to the possibility of failure of the cone during flight due to internal imperfection. Missiles are subject to damage during transit from factory to firing tube. The nose cone is particularly vulnerable. Consequently, it is sometimes necessary to effect repairs of the cone. Although these repairs are completed under closely regulated conditions, internal flaws can be built into the plywood during the repair. Furthermore, even in

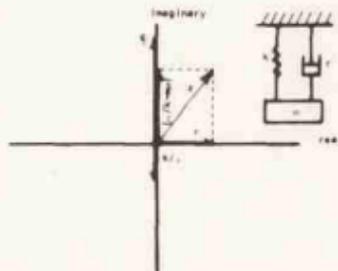


Fig. 1

the presence of close quality control in the factory, defective adhesive bonds can be introduced during fabrication of the cone.

Current research in the School of Forestry is directed toward the development of a vibrational non-destructive test that can be used to detect internal flaws in the cone. The vibrational test is based on the assumption that the physical properties of a vibrating medium are likely to be correlated with the presence of internal flaws. When a plate is subjected to periodic force oriented in a direction normal to its surface, oscillations of the plate are induced. At low resonant frequencies the plate tends to oscillate at high amplitudes and develops a characteristic nodal pattern. As the frequency of the driving force is increased the vibrations assume a local nature. For example, a 30 x 30 x 1/2-inch plywood plate when driven at 3000 cycles per second tends to oscillate primarily in a highly localized area immediately surrounding the driving point. Our research is conducted at frequencies in the region of 3000 cycles per second. It is anticipated that a flaw near the driving point will tend to modify the measured vibrational properties.



Fig. 2

The physics of vibration is concerned essentially with a mechanical system in dynamic equilibrium. It is well known from Newton's laws of motion that the resultant of all forces acting on a body is equal to the product of mass and acceleration of the body. A vibrating system is thought to be characterized by three typical internal forces:

(1) elastic restoring forces  
 (2) viscous dissipative forces  
 (3) inertia forces (mass—acceleration forces)

All of these forces must sum to zero for a body in dynamic equilibrium. Vibrational motion is always periodic. In the simplest case it is harmonic and hence can be represented mathematically by sine or cosine functions. It can be shown mathematically that forces of the three types cited above always differ in phase from each other by 90°. This is due to the fact that elastic forces are displacement dependent, viscous forces are velocity dependent, and inertia forces depend on the acceleration. When a body such as a plywood plate contains all three types of internal forces, it is found that the force which varies periodically suffers a phase displacement from the velocity. The complex ratio of force to velocity is defined as mechanical impedance,  $Z$

$$Z = \frac{F_0 e^{i\omega t}}{v_0 e^{i(\omega t - \theta)}} = |Z| e^{i\theta}$$

This equation relates a situation in which the phasor representing impedance does not lie along the real or imaginary axis but lies at some angle  $\theta$  to the real axis. As shown in Fig. 1 the magnitude of  $Z$  and  $\theta$  are dependent on the relative contributions to  $Z$  from the mass, viscous damping and elastic restoring forces. Hence, the impedance  $Z$ , is measured at a particular point of a body can be an indication of the characteristics of the material near the point of measurement.

Experimental work in the School of Forestry has shown that the mechanical impedance of a plywood panel is modified substantially by the presence of an unbonded region (flaw) in the panel. To date relatively small unbonded regions four glue lines from the surface have been detected with relative ease. Fig. 2 shows the experimental apparatus now being used for this research.

Future research in this area will be channeled into two areas. Experimental research will be oriented toward the detection of defects of other types, particularly poorly bonded regions that might be introduced during repair. In addition effort will be directed toward the development of a theoretical model which can be used to interpret the experimental data. This would appear to be an important part of the study as it can lead to more intelligent planning of experimental research.





(Continued from p. 55)

About this time we were getting so good, Mr. Carter wanted to show us off! We packed our bags and prepared to descend on Barrow Lumber Co. in Ahoskie, N. C. We were to stay a week

and do a study on board thickness. Our headquarters was to be a boarding house. The poor lady that owned the place must have been pretty desperate for business to allow us to stay. The first night we bought about four six-packs and commenced to play bridge. Short Roy even joined us. Myself, Dave Smith (known as the "Teenage Idol"), Rahman, Short Roy, and Spencer (Mr. Barrow's son) were the major participants in this marathon. About 3:30 there was no more beer, and we were too *tired* to shuffle any more so we went to bed. Boy was that room a mess in the morning! We arose around 5:30, God save us, and left the mess for the landlady to clean up. That was one hell of a day! We came back that night sunburned and still feeling the effects of the night before! Many other little incidents make us look back on Ahoskie with nostalgia. There is the time when Tom Helms and myself decided to take up tobacco chewing. Carl Collins, an old mountain boy, decided to take up the habit. One minute he was chewing along, all smiles, and the next thing we know he was green and running for the nearest building! For once he couldn't talk. Rahman managed to photograph one of Mr. Barrow's top secret processes. The funny thing was, he did it while Mr. Barrow was telling him not to!

No sooner had we gotten back in Raleigh from Ahoskie than we took off again. This time we were heading for the great state of Virginia! It was to be the Stanley Furniture Co. of Stanleytown, Va. who were the lucky ones. Since Virginia was on daylight saving time and North Carolina was not, we had to leave an hour earlier. In order to get there at 7 A.M. we had to leave at 3 A.M. After arriving in Stanleytown, we went immediately to work. After a hard days work, most of us were ready for bed. Almost, but not quite! Two fools, Tom Helms and Carl Collins, decided they were close enough to West Virginia to have a date that night there. They left at 5:00 and kept their dates. This trip led to Tom Helm's present engagement! Having driven all night and torn out first gear, they arrived back at 7:00! However, to make matters worse, nobody was up! They promptly went to sleep in the car, and we slept on in the motel. About 9:00 Short Roy awoke and proceeded to inform us of how late it was and how fast we were going to get to the furniture plant. It was rather embarrassing for him and us when we finally arrived for work. A week was spent studying machine capacity and motion & time study. There were more tobacco chewing men gathered in that plant than I have ever seen anywhere! You had to really dodge between streams!

Eventually we finished our work and headed back to Raleigh to write up all this information in the form of a report. The rest of the practicum

was spent writing and typing. I'm not sure what happened to those reports, but we never heard from them again. Evidently they weren't earth-shaking.

Looking back on this summer I can truthfully say that we had a lot of experiences, made many close friendships, and have memories we will never forget. It seemed like hell at the time, but often these are our fondest memories. The Sophomore Class has much to look forward to, although they will have a hard time measuring up to our experiences!

(Continued from page 59)

from about twelve schools are expected, with our Forestry Club assuming the major task of hosting this meeting. It is impressive that the Club has earned some \$1,300.00 cutting pulpwood on weekends preparing for the Conclave.

3. A generous gift from the Paper Industry Manufacturing Association enabled us to bring two outstanding men to talk to the students and participate in seminars. Dr. S. D. Richardson, Director of the New Zealand Forest Experiment Station, was with us the week of March 14th, and Mr. Martin Biddle, FAS, University of Exeter, Exeter, England, was here on a special visit the week of April 8th.

The research program continues to grow. A major publication this year was Technical Report No. 23, *Forest Research at North Carolina State*. This summarized the research program from its beginning up to the present and has received many commendations. Forest research has become an impressive program with us, involving a budget of \$491,000., with less than one-fourth of this coming from State appropriations. Especially gratifying to us has been the region-wide support for our research programs from industry and public agencies, as well as the substantial grants our faculty have received from the National Science Foundation, National Institute of Health, Office of Naval Research, and National Aeronautics and Space Agency. The recently enacted McIntire-Stennis Cooperative Forestry Research Program is strengthening our research effort and should become of major importance as the appropriation builds up to significant size.

We are pleased that the budget now before the Legislature contains two capital improvement figures vital to our progress. The major item is \$1,215,000 of State funds for adding a third floor to Robertson Laboratory and to construct a new forestry building. We hope to get a matching NSF grant to raise this figure to \$1,500,000. A smaller item of \$55,000 will permit us to improve our Hill Forest camp and to convert storage space in Hodges Wood Products Laboratory into graduate laboratories.

## Treasurer's Report 1963-1964

### INCOME

172 members @ \$3.00 .....	\$ 516.00
Contributions Slocum Scholarship Fund .....	382.00
	\$ 898.00

### EXPENSE

Typing .....	\$ 14.70
Postage for Newsletter and Pinetum .....	92.00
Printing Newsletter .....	60.00
172 Copies Pinetum @ \$1.83 .....	314.76
	\$ 481.46

### STATEMENT OF ACCOUNTS

Hofmann Loan Fund .....	\$2,500.00
Slocum Scholarships	
Previous Balance .....	\$1,049.84
Scholarship paid .....	350.00
	699.84
Added this year .....	416.54
	\$1,116.38



Congratulations to William W. Hood who was designated "Florida's Outstanding Forester" for 1964 by the Florida Chapter of the South-eastern Section of the SAF.



The children of James E. Webb, Jr. (1956); Becky, Julie, and Paul



Nellie, Mitch (1961), and young Tom Gurganus in front of the house on Wilbur Lake, Elizabethton, Tenn.

# Alumni News

1930

- GRAEBER, R. W., Consulting Forester, self-employed, operating Gullwake Forests.  
Ed. note (Mr. Graher was presented a special award "For a Life-time of Devoted and Untiring Service to North Carolina Forestry" by the N. C. Forestry Association at its 54th annual meeting in Asheville).
- HOWARD, H. E., U. S. Forest Service.  
"Congratulations on improving the format of the Newsletter. We had an interesting trip to Alaska last October. Still enjoying my work in personnel. My wife and I travel together and are learning a lot about our country."
- MORRISS, D. J., U. S. Forest Service.  
"Thanks for the nice newsy Newsletter—a good job! Has anyone figured out why we seem always to be so poorly represented at SAF meetings? Maybe a word on keeping up professionally would not be amiss in a future PINETUM or Newsletter!"

1931

- ARTMAN, J. O., Tennessee Valley Authority.

1932

- COOPER, William E., Virginia Forests, Inc.  
"Tell Dick Preston I'm expecting a golf ball from him after the election returns are all in!"
- MAXWELL, Albert H., N. C. Division of Forestry.  
"The new format of the Newsletter is great. We are all pleased at the priority on the new Forestry Building. Keep up th good work!"
- TILLMAN, Paul W., N. C. Division of Forestry.

1933

- HAFER, A. B., Consulting Forester, self-employed.

1934

- CROW, A. Bigler, Professor of Forestry, School of Forestry, Louisiana State Univ.  
"Have been teaching silviculture and protection courses at LSU for nearly 19 years. Have my share of graduate students, too. Academic life has been stimulating and rewarding but not quite so easy as I had imagined before I got into it! Best regards to Thelma Slocum, Doc Hofmann, and others who may remember 'way back to the early days of forestry at State" Ed. note (Professor Crow has been presented the Award of Merit for outstanding teaching by the Louisiana State Univ. chapter of Gamma Sigma Delta, national honor society of Agriculture. Also, the School's year-book ANNUAL RING was dedicated to Professor Crow last spring.)
- LEDBETTER, F. H., N. C. Dept. Cons. & Development, Div. of Forestry.
- SMITH, Walton R., USFS, Southeastern Forest Experiment Station.  
"It looks as though some enterprising faculty member inclined towards journalism should write up a detailed history of N. C. State Forestry School before some of us old timers forget some of the finer points that probably should not be forgotten. I believe a lot of alumni would be willing to spend \$5 to \$10 for such a volume. If started now, it would come out just about in time to include the first forty years. Maybe Doc would like to take on the job."

1935

- JACKSON, G. E., Consulting Forester.  
"It has been my pleasure to see several of the "Old Grads" this year and the one thing that impresses me most is that they are all showing the effects of 30 years on the "fring line" and are beginning to look older—then I looked in the mirror! Inez and Margaret join me in sending our best regards to faculty, students, old grads!"
- PAGE, Rufus H., Principal Wood Scientist, Southeastern Forest Exp. Station.  
"No complaints—plenty of work to do. Two of five children now in college. Hope one of the remaining three will attend N. C. State."

1936

- AIKEN, W. C., USDA, Soil Conservation Service.  
"Have been made woodland conservationist for Alabama and have moved to state office."

1937

- BRIDGES, W. J., Jr., Union Bag-Camp Paper Corp.  
"Office in N. Y. and family in Virginia—best of luck to all my friends!"
- GERLOCK, A. J., Real Estate Broker.  
"Time marches on. Number one son is now a M. D., Number two a chemist—Number one daughter is senior at Univ. of Ga.; wife and I by ourselves again, just like we started."
- WHEELER, W. H., Jr., Carolina Power and Light Co.

## 1938

HUBBARD, J. B., N. C. Forest Service.  
SMITH, George E., Jr., USDA, Soil Conservation Service.

## 1939

BEASLEY, W. L., Jr., Beasley Lumber Products.  
JOLLAY, Ted M., Forestry Consultant.

## 1940

HARLEY, Ben R., General Manager, Turnell & Morgan Pulpwood Dealers.  
INGRAM, S. O., Jr., Col., Ed. not (Colonel Ingram stopped by the School—he is now stationed in Germany and has a daughter attending N. C. State University).

## 1941

SPIKER, Theodore F., U. S. Marine Corps.

## 1942

LEYSATH, Elwin F., State of Vermont.  
"Still county forester for Rutland County."  
THURNER, J. T., Gilman Paper Co.

## 1943

ETHERIDGE, James N., Self-employed.

## 1944

HOLCOMBE, Robert A., National Lumber Manufacturers Association.  
"Enjoyed seeing the faculty at the 1964 FPES meeting in Chicago. My fingers are crossed with the rest of you for the new Forestry Building. Unfortunately, I'm one of the few people in Washington who has no influence—just fond hopes and good wishes."

1945

1946

1947

## 1948

BLACKSTOCK, C. E., U. S. Forest Service.  
BOYETTE, Richard C., The Plywood Co., Division of Williams Furniture Corp.  
"We hear all kinds of reports about the terrific progress being made by the School. Some of us should go back for a couple of years to try to catch up on the latest!"  
ICARD, Thomas F., Senior Partner-Icard, Merrill, Cullis & Timm, Attorneys at Law.

## 1949

ALTMAN, James A., American Pulpwood Association.  
BOYCE, Stephen G., U. S. Forest Service, Central States Forest Exp. Station.  
"Recently moved to Columbus, Ohio to accept a new challenge in the Div. of Timber Management and Fire Research for the Central States Forest Exp. Station."  
HARPER, J. O., International Paper Co.  
"Miss being around the School—hello to everyone. Dr. Maki, I see a forest farmer every time I go to the mountains. Dr. Preston, I have about given up golf—fishing and hunting a little."  
WILSON, A. D., Virginia Division of Forestry.  
WOODS, Frank W., School of Forestry, Duke University.  
YANCEY, T. E., Virginia Division of Forestry.

## 1950

BARBER, John C., USFS, Southern Forest Experiment Station.  
"Changed locations last June after 11½ years—I'm now Project Leader for the Institute of Forest Genetics at Gulfport, Miss. I see more N. C. State people now. Enjoyed seeing Dean Preston and other "Staters" at the SAF meeting in Denver. The 'welcome mat' is out!"  
BRANK, Glenn P., Glenn P. Brank Insurance Agency.  
CAVANAUGH, Martyn J., Champion Papers, Inc.  
LAMPE, John G., Thomasville Furniture Industries.  
PASCHAL, William J., Paschal Lumber Co.  
PHELPS, William R., U. S. F S., Lake States Forest Exp. Station.  
"Finally returned from the jungles of South America to settle down in the cold northlands of Wisconsin. I have been working for the Lake States Forest Exp. Station on their antibiotic and chemical control of blister rust on eastern white pine project for the past 3 years. I find the U. S. mainland civilization much better than the head hunters of the South American jungles although the pace up here is much faster. Have three daughters—Cindy, 6 years; Kathy, 4 years; Sheri, 2½ years—have given up trying for boys. Best regards to everyone."

SMITH, Major Herbert H., U. S. Army.

"Am desk officer, material div. office of military assistance, working with military assistance programs in Bolivia, Colombia, Chile, Ecuador and Peru."

1951

COUSINS, Charles, Plant Manager, Lea Lumber & Plywood, Inc.

"I follow with interest the continued development and extension of the Wood Tech. curriculum. The field is wide open for adequately trained men. Our total woodworking industry needs a tremendous amount of technical help. Do your best for us!"

ESTEP, Eldon M., USFS, Pacific Northwest Forest & Range Experiment Station.

GENTRY, B. W., Self-employed—Consulting Forester.

MASTEN, James C., Aeme Wood Corporation.

"Riegel mill is still about out of wood—we're havin' to work every "Sadey" and we owes our soul to the "Company Sto"! Best wishes to all!"

REID, James R., Jr., Superior Stone Co.

1952

HUGHES, Samuel M., Riegel Paper Corp., Woodlands Public Relations & Safety Coordinator.

"No big news or startling developments. Same stand and duties as before. See a lot of familiar faces every year and enough new ones to keep it interesting. Did see John Leroy this fall for the first time since school. We decided that with a little practice our horse shoe prowess might be regained. Hope we don't have to prove it."

JACKSON, John V., Virginia Division of Forestry.

1953

DORWARD, R. E., Hiwassee Land Co.

ADAMS, P. W., Federal Land Bank of Columbia.

1954

It is with deep regret that I report the death of H. J. Andersen on December 20 in the Veterans' Hospital at Durham. Jim had suffered a heart attack a few hours earlier. At the time of his death he was working toward a doctorate in forestry here at State. He is survived by his wife, Betty Bridgers Andersen, who may be reached at 915 Burch Ave., Durham, N. C. (RCB).

ARNOLD, Thurston W., Weyerhaeuser Co., N. C. Division.

"Moved to Plymouth in August. Am working in Forest Construction now."

BARRETT, James P., Univ. of New Hampshire.

"A boy was added to our family last August and I'm a proud daddy. We now have 2 children—a boy and a girl."

BRYAN, Mackay B., USAID—Philippines.

"Present plans are to end my work as forestry advisor to the Philippines in June 1965—after that!"

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

"Nothing too new to report—still plugging along as a biology-earth science teacher."

NICHOLSON, John E., N. C. Forest Service.

RAPER, Charles F., Mortgage Loan Dept., Travelers Insurance Co.

"Greetings to all."

SEWELL, Carl S., Gilman Paper Co., St. Marys Kraft Division.

WELLS, Joe, Doncaster.

"Business is good in women's wear. Get all the woods I need on the weekend. Have discovered part-time farming is a paying business—you pay and pay and pay. The day of having enough kids to work the farm is past—ours ride the horses all day Saturday and play in the creek Sunday. All I need is to get my tractor "programmed" and have my back copies of Progressive Farmer bound in leather. We still provide one night's lodging and 2 meals to anyone passing who wears boots and smells faintly of pine resin! Stop and see us."

WRIGHT, Ernest B., Jr., USFS, Range Station, Marblemount, Wash.

1955

CHAPMAN, John F., USFS, Bonita Ranger Station, Clinton, Montana.

"Still at the game—still not sure whether winning or losing!"

COBB, Fields W., Jr., Dept. Plant Pathology, Univ. of California.

FLOWERS, E. D., Woodlands Division, Union Bag-Camp Paper Corp.

HARDY, P. L., Jr., Forestry Consultant.

"Have added a wife, Joyce, since last year."

MALMQUIST, Quentin, Wood Technologist, Vermont Bureau of Industrial Research.

"Enjoyed the newsletter."

MOULTHROP, Grayden B., W. S. Fox and Sons.

"Have now become an 'Arkansas Traveler'."

RAND, Leroy F., O. H. Morris Co., Inc., Palatka, Fla.

1956

KILIAN, Leonard A., Jr., N. C. Forest Service.

"Sounds as though the School is doing fine, as usual—we are also, and expecting our third in May."

MASASCHI, John E., U. S. Plywood Corp.

"Currently manager of the Product Development and Sales Promotion Dept. of the Orangeburg Division of USP."

WEBB, James E., Jr., U. S. Forest Service, Employee Development Officer, Juneau, Alaska.

"This is our third winter in Alaska. So far we have had over 180 inches of snow at sea level! We like Alaska and our first "Sourdough" arrived last June 20."

1957

DOWLESS, V. Gerald, Container Corp. of America.

"Spent 3 years in USAF, back for 2 years at State and degree in PPT '63. Currently Computer Project Engineer for Container Corp. Two boys and only one wife!"

KELLEY, Jack Stewart, USFS, Franklin, N. C.

"Have been in training for work at the Arrowood Job Corps Center near Franklin, which you fellows will remember as the old summer camp at Wayah Depot. We are now constructing the camp; the old buildings are being converted to dormitory rooms—there will be a mess hall, office and latrines brought in by a mobile unit company. A large area is being leveled behind the old camp for equipment maintenance shop—there will be 3 staff houses constructed near the camp entrance. It is a brand new field of work for foresters and we hope an effective method of education. Unlike the CCC set-up, the Job Corps will coordinate the field project work with the in-class education which will be distributed 50-50."

PICKENHEIM, Paul J., City Arborist, City of Erie, Penn.

"I am trying to organize a city tree management program here—there are times when I feel just like the old time rangers must have felt, fighting public apathy and commercial interests all the way. Regards to all."

STEVENSON, James C., Chase Manhattan Bank.

"Am now promoted to teaching others what I learned last year. Now the problems of my former professors become apparent!"

1958

1959

DAVIS, T. Paul, South Mountain Pulpwood Co., Inc.

JACKSON, Donald G., Broyhill Furniture Factories.

"Am now plant manager of Broyhill's new furniture parts plant in Summerville, S. C."

LUPOLD, Hugh M., Milliken Forestry Co., Consulting Foresters.

"Contemplating branch office in the Hickory-Asheville area in near future. Multiple land use most important in our management of varied private ownerships and has been for some time. With the consistent rise in bare land values in some sections of the Carolinas, forestry is becoming a by-product while time determines the ultimate land usage."

SCANLON, David H., III, Firestone Plantations Co., West Africa.

"Have daughter, Elizabeth Peire, born April 24, 1964."

TABOR, Christopher A. (MS '64), Dow Chemical Company.

WELCH, Richard V., Union Bag-Camp Paper Corp.

1960

BOST, Ronald M., S. C. National Bank, Pickens.

BRAKE, Robert F., The Chesapeake Corp. of Virginia.

"Daughter, Georgia Lou, born November 17, 1964."

BRAMLETT, David L., Southeastern Forest Experiment Station, Charlottesville, Va.

BYERLY, R. D., Georgia Kraft Company, Franklin, Ga.

"Greetings to everyone. We are getting well involved in N. C. State's tree improvement program. We expect great things from this program in the future."

CARRIGAN, William C., The Chesapeake Corp. of Virginia, Sharptown, Md.

CHURCHILL, John P., Champion Papers, Inc., Fairfield, Ohio.

LOVIN, Henry, Lancaster, S. C.

"It was a pleasure to receive your poop sheet—you make me homesick!"

MC MINN, Jim, Southeastern Forest Experiment Station, Ft. Myers, Florida.

NELSON, Ralph M., Jr., Southeastern Forest Experiment Station, Macon, Ga.

SELDEN, Charles W., III, 1st Lt., USAF, Tampa, Fla.

"Mimi and I were blessed with a daughter, Mylinda, last June 27. I got caught on an overseas tour to begin in September and last for 3 years—going to Misawa Air Base, Japan. Hope to get a good opportunity to see and understand the land use of Japan. I am convinced that our own expanding population is going to put great pressures on the land resources of the U. S. and that there is much to be learned from other countries in regards to multiple land use and real conservation of the limited resource."

WALLINGER, R. Scott, West Virginia Pulp and Paper, Charleston, S. C.

"My best wishes to everyone."

1961

BRADLEY, Edwin W., Jr., Pacific Car & Foundry Co.

CUNNINGHAM, Henry, N. C. Forest Service.

"My wife, Nancy, Henry, Jr., Sally and I moved to Elizabeth City to assume a new job as Service Forester."

DEATON, Robert B., St. Regis Paper Co., Jacksonville, Florida.

GRIMSLEY, Daniel L., U. S. Army Corps of Engineers, Henderson, N. C.

GURGANUS, Mitch, U. S. Forest Service.

"We're still in Elizabethton, Tenn., enjoying my work. Fishing is very good up here—we're living beside Wilbur Lake. Hello to everyone."

LANGSTON, Edward H., Captain, U. S. Army.

SCHUERENBRAND, Howard, Jr., Virginia Division of Forestry.

"Besides a new job, I have added a wife, Annette, and a son, Mark Edward."

SYKES, Paul W., Jr., Graduate student, Dept. of Zoology, N. C. State.

"Completed a three-year, four-month tour of duty in the Navy on August 7, 1964. Commenced a graduate program in animal ecology in September."

#### 1962

BULLARD, Robert Paul, U. S. Forest Service, Willows, Calif.

"We had a long hot summer."

BURGESS, R. M., Georgia Kraft Company, Woodlands Division, Rome, Ga.

CONNOR, Buddy W., Cox Woodlands Co., Augusta, Ga.

CRAIG, William S., U. S. Forest Service.

"Back to the mountains of western North Carolina after an eight-month job on the coast—now enjoying working on the Pisgah District."

FOSTER, Ronald Fred, U. S. Forest Service, Tellico District, Cherokee National Forest.

"Enjoying my work as Timber Management Assistant on the Tellico."

HAMME, Joseph C., Self-employed.

HUFFMAN, U. S. Forest Service, Ocoee Ranger District, Benton, Tenn.

JACKSON, Lynn K., TVA, Norris, Tenn.

"Work with TVA is very enjoyable and my area of responsibility now covers initiating all timber sales on Norris, Cherokee and Douglas Reservoirs, cruising timber, computing volumes, making stumpage appraisals and advertising and administering the sales. Needless to say, the basic fundamentals of mensuration (particularly measuring form class) and valuation are indispensable in this process. Thanks to all at N. C. State I feel well equipped to do the job."

McMILLAN, Ed Leigh, II, T. R. Miller Mill Co., Brewton, Ala.

"Working as a forester—would like to see some classmates in this part of the country."

MOORE, Julius Graham, S. C. Industries, Florence, S. C.

PRICE, Albert L., U. S. Navy, Virginia Beach, Va.

ROBERTS, Alvin Y., U. S. Forest Service, John Day, Oregon.

TURNER, John H., U. S. Forest Service, Fredonia, Arizona.

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

#### 1963

It is with sorrow that I report the tragic death of Jason H. Dunshee in a pick-up accident shortly before Christmas. He was on his way to work when he crashed head-on with another vehicle. Jason is survived by his wife and one child of Pantego, N. C. and his parents, Mr. and Mrs. Guy Dunshee, also of Pantego. (RCB)

BROGDEN, Roy O., U. S. Forest Service, Coeur d'Alene National Forest.

MANNING, Henry L., Jr., U. S. Forest Service, Avery, Idaho.

McCRARY, James E., Virginia Dept. of Highways, Suffolk.

RUST, Carl W., U. S. Forest Service (leave without pay).

"Obtained a 'boss' May 9, 1964 in California. She is putting me through graduate school at Duke. I'm currently working for a MF in Forestry Business Mgt. under Dr. James Yoho. It's a two-year program with 53 credit hours of economics!"

#### 1964

BENVENUTI, Roger, The Glidden Company, Addison, Ill.

MOORE, Bernie, Farmville, Virginia.

"A son, Darrell Wayne, June 22."

ZOBEL, Donald B., Department of Botany, Duke University.

# 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., Wilwaukee, Wis.
E. R. Chance	Deceased
T. C. Evans, MS '31	Dir. Brometrical Service, U. S. Forest Service, So. Building, 12th St. & Independence Ave., Washington 25, D. C.
R. W. Graeber	303 Hillcrest Rd., Raleigh, N. C. (Consultant)
N. R. Harding	Ga. Kraft Co., Director Wood Procurement, Rt. 5, Rome, Ga.
S. G. Hile	Deceased
H. E. Howard	Apt. A-1003, 1111 Army-Navy Dr., Arlington, Va. 22202 (USFS)
J. N. Leader	Bedford, Pennsylvania
D. Y. Lenhart	West Virginia Pulp & Paper Co., 230 Park Ave., New York 17, N. Y.
D. J. Morriss	8203 Fort Poote Rd., Washington 23, D. C. 20022 (USFS)
R. L. Pierce, MS '31	851 Scott St., Stroudsburg, Pennsylvania
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., Middletown, N. Y.
C. B. Zitselman	500 E. Broad St., Tamaqua, Pennsylvania

## Class of 1931

N. B. Alter	Chattahoochee National Forest, Gainesville, Georgia
H. E. Altman	26 Mississippi Ave., Silver Springs, Md.
J. O. Artman	110 Hilltop Lane, Norris, Tenn. (TVA)
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. (USFS)
H. A. Foreman	Marshalls Creek, Pennsylvania
D. B. Griffin	Box 605, Front Royal, Virginia
H. J. Loughhead	399 Vanderbilt Rd., Biltmore Station, Asheville, N. C. (retired)
C. F. Phelps	204 Lakewood Drive, Richmond 29, Virginia
C. H. Shafer	1233 Lehigh St., Allentown, Pennsylvania
G. K. Slocum, MS '32	Deceased
W. B. Ward	15 School Lane, Springfield, Pennsylvania (USFS)

## Class of 1932

W. E. Cooper	301 E. Franklin St., Richmond 19, Va. (Virginia Forests, Inc.)
A. A. Grumbine	411 Carriage Dr., N.E. Atlanta 5, Ga. (USFS)
J. J. Kerst	Box 77, Vicksburg, Miss. (US Corps of Engineers)
A. H. Maxwell	305 Tate St., Morgantown, N. C. (NCFS)
F. J. Miller	1234 Brooks Ave., Raleigh, N. C.
C. G. Rorer	106 Penn Ave., Watsontown, Pennsylvania
G. K. Schaeffer	1612 Springbrook Dr., Decatur, Georgia
P. W. Tillman	2632 St. Mary's St., Raleigh, N. C. (NCFS)
W. H. Warriner	U. S. Forest Service, Jackson, Mississippi
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, Virginia
R. J. Seltz	825 Jackson St., Gastonia, N. C.
A. L. Setser	5358 Tally Drive, Chamblee, Georgia
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. (NCFS)
A. B. Crow	Prof., School of Forestry, Louisiana State Univ., Baton Rouge 3, La., 70803
F. A. Doerrie	Box 4136, Baytown, Texas
L. B. Hairr	Box 112, Marion, N. C.
F. H. Hube	1151 W. 20th St., Laurel, Mississippi
F. H. Ledbetter	Box 481, Lenoir, N. C. (NCFS)
D. C. Piaster	111 Fox St., Morgantown, N. C.
C. T. Prout	2180 Milvia St., Berkeley, California (SCS)
A. G. Shueart	Yadkinville, N. C.
W. R. Smith	72 Hibriten Dr., Asheville, N. C. (USFS)

Class of 1935

H. F. Bishop	Woodland Ave., Marion, N. C.
W. E. Boykin	Box 267, Lillington, N. C.
C. W. Comfort	U. S. Forest Service, Gulfport, Mississippi
F. J. Czabator	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	Peschtree—7th Bldg., Atlanta, Ga. (US Fish & Wildlife Ser.)
T. B. Gardiner	4223 12th Rd., S., Arlington 4, Va. (SCS)
J. B. Graves	403 Court St., Talladega, Alabama
F. A. Hodnett	Box 535, Dublin, Va.
W. W. Hood	Camp Blanding, Starke, Fla. (State Florida Military Dept.)
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. of Florida, Gainesville, Fla.
F. N. Newnham	U. S. Forest Service, Regional Office, Atlanta, Ga.
H. W. Oliver	Princeton, N. C.
R. H. Pace, Jr.	Box 2570, Asheville, N. C. (SEFES)
J. A. Pippin	Box 664, Rockingham, N. C. (NCFS)
E. G. Roberts	Mississippi State College, State College, Miss.
M. W. Shugart	Soil Conservation Service, 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	P. O. Box 311, Auburn, Ala. (SCS)
L. K. Andrews	950 N. Davidson St., Aberdeen, Wash.
O. T. Ballentine	Deceased
R. O. Bennett	Deceased
A. H. Black	200 Third Ave., Scottsdale, Pennsylvania
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, Florida
P. M. Obat	Deceased
D. M. Parker	Sunbury, N. C.
C. C. Pettit	Box 938, Sylva, N. C.
C. H. Riley	Pleasant Garden, N. C.
J. L. Senright	Deceased
M. F. Sewell	Unknown
J. H. Thornton	1635 C. St., Harrisonburg, Virginia
W. H. Utley	300 Country Club Dr., New Bern, N. C.
J. S. Vass	4520 Alabama Ave., Chattanooga 9, Tenn.
L. H. Welsh	719 Country Club Rd., Wilmington, N. C.

Class of 1937

W. J. Bridges, Jr.	500 Lee St., Franklin, Virginia (Union Bag-Camp)
Loeke Craig	c/o U. S. Consulate Officer, Belem, Brazil, South America
J. W. Davis	P. O. Box 3037, Wilmington, N. C. (Executive Dir., N. C. Ports Authority)
P. 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	1308 National Ave., New Bern, N. C. (NCFS)
W. D. Gash	702 Princeton Dr., Wilmington, N. C.
A. J. Gerlock	Rt. 1, P. O. Box 137, Fairburn, Ga. (Self-Real Estate)
J. H. Griffin	Deceased
A. F. Hein	Deceased
J. B. Helmsel	Virginia Forest Service, Charlottesville, Virginia
T. B. Henderson	Rt. 1, Box 115A, Williamsburg, Virginia
J. W. Hendrix	Unknown
T. M. Howerton, Jr.	Buena Vista Farms, Madison, Florida (Consultant)
E. L. Hurst	U. S. Forest Service, Norton, Virginia
Clarke Mathewson, MS	Box 405, St. Mary's, Georgia
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., SE, Atlanta 16, Georgia
F. D. Mayfield	1750 Boulderview Dr., SE, Atlanta, Georgia

R. L. Nicholson	.....	Unknown
H. O. Roach	.....	Unknown
C. F. Russell	.....	518 Nelson Dr., Jacksonville, N. C.
L. P. Spitsainik	.....	Unknown
L. W. Troxler	.....	224 Carriher Ave., Salisbury, N. C.
J. Walsh	.....	265 Mission Dr., Camarillo, California
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, Virginia
W. A. Campbell	.....	1915 Wigmore St., Jacksonville, Florida
C. J. Chesiock	.....	Orbisonia, Pennsylvania
W. L. Colwell, Jr.	.....	182 Ardith Court, Orinda, Calif.
P. C. Conner	.....	Firestone 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	.....	1904 Bragg St., Monroe, N. C.
J. W. Farrow	.....	Deceased
J. W. Findlay	.....	902 Edgemont Circle, Gastonia, N. C.
G. H. Floyd	.....	116 Pittman St., Fairmont, N. C.
W. L. Foster	.....	W. Virginia Pulp & Paper Co., Summerville, S. C.
B. Griffin	.....	Red Oak, N. C.
P. A. Griffiths	.....	1400 Ridge Road, Raleigh, N. C.
R. M. Henry	.....	2290 W. 36th St., Pine Bluff, Ark. (Box 580)
L. H. Hobbs	.....	266 Kilgore Hall, N. C. State Univ., Raleigh, N. C.
A. J. Honeycutt, Jr.	.....	1834 Oberlin Rd., Raleigh, N. C.
J. B. Hubbard	.....	3036 Churchill Rd., Raleigh, N. C. (NCSF)
James L. Hur	.....	Mayville, N. C.
G. W. Hunter	.....	525 N. East St., Raleigh, N. C.
V. V. Kareiva	.....	2903 Byrd St., Raleigh, N. C.
H. W. Lull	.....	Div. of Watershed Mgt., NE Forest Experiment Sta., Upper Darby, Pa.
T. J. McManis	.....	Deceased
W. J. Marshburn	.....	306 Surginer Rd., Rockingham, N. C.
Col. J. P. Moorfield	.....	G-4, USARYIS, APO 331, San Francisco, Calif.
R. M. Nelson, MF '39	.....	c/o Robert B. Tucker, 809 Philadelphia Ave., Chambersburg, Penn.
H. W. Hyder	.....	11 S. Prince St., Shippensburg, Penn.
C. B. Shimer	.....	1509 Webb St., Raleigh, N. C.
G. E. Smith	.....	901 Sumter St., Columbia, S. C. (USDA, SCS)
I. W. Smith	.....	4441 S. 31st St., Arlington 6, Va.
P. L. Warlick	.....	398 Vanderbilt Rd., Biltmore Forest, Asheville, N. C.
N. B. Watts	.....	Rt. 8, Box 183, Raleigh, N. C. (NCS Univ.)
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. Baker, Jr.	.....	2406 Shirley Rd., Wilmington, N. C. (Corbett Lbr. Co.)
W. L. Beasley	.....	Beasley Lumber Products, Scotland Neck, N. C.
A. E. Butler	.....	2404 Glaseock St., Raleigh, N. C.
C. K. Dale	.....	Unknown
R. L. Easterfield	.....	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.
Ted M. Jolley	.....	1707 Broad St., Camden, S. C. (Consultant)
R. S. Johnson	.....	710 King St., Laurinburg, N. C.
J. V. Lyon	.....	Unknown
H. C. Martin	.....	Unknown
C. L. Page	.....	White Pond, S. C.
C. H. Peterson	.....	Johns Manville Corp., Jarrett, 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	.....	1209 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	.....	International Paper Co., Pine Bluff, Arkansas
C. N. Wright	.....	224 McGhee Ave., Greenwood, S. C. (Wright Pulpwood Agency)
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 Charconas	Unknown
R. E. Davis	608 Poplar St., Canton, N. C.
W. B. Dunn	8 Central Ave., Warren, Penn.
T. E. Gezher	444 North Wood Ave., Florence, Ala.
W. E. Gibbins	1120 Taylor St., Corinth, Miss. (Tenn. River P & P)
B. R. Harley	Box 548, Elizabethtown, N. C. (Turnell & Morgan Co.)
B. S. Hays	Dept. of Conservation & Dev., Div. of Forestry, Raleigh, N. C.
J. W. Hilton	Deceased
S. O. Ingram, Jr., Col.	APO 238, New York, N. Y. (Air Force)
M. M. Karlman	Unknown
R. M. King	2432 Mockingbird Dr., Sierra Vista, Arizona
C. D. Kuhns	100 White Oak St., Kutztown, Penn.
R. K. Lee	312 Bala Dr., Alexandria, La.
P. J. Lezier	Box 13, Wrightstown, N. J.
M. A. Matson, Jr.	8813 Pinedale St., Norfolk 3, Va.
J. F. Needham	329 Piney's Lane, Chillicothe, Ohio
J. F. Nigro	Millbrook, New York (SCS)
A. A. Novitt	418 Hempstead T'pike, W Hempstead, Long Island, N. Y.
W. E. Odom, Jr., Col.	Hdqs. USAF, APO 633, New York, N. Y.
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, Mollory Station, Memphis, Tenn. (Chapman Chem. Co.)
R. E. Carey	Unknown
G. V. Chamblie	Bladen Lakes State Forest, Elizabethtown, N. C.
P. M. Cromartie	West Lumber & Box Co., P. O. Box 879, Fayetteville, N. C.
E. H. Ericson, Jr.	Old Neck Rd., Manchester, Mass.
C. E. Gill	911 Gracelyn Dr., Blacksburg, Va.
Michael Goral	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 Serv.)
Jesse Levine	Unknown
J. E. Melver, Jr.	P. O. Box 50, Georgetown, S. C. (Int. Paper Co.)
W. C. Picket	433 Ridgeway Ave., Statesville, N. C.
T. P. Spiker, Col.	3507 Camfield Dr., Alexandria, Va. 22308 (USMC)
D. F. Taylor	Box 1077, Southern Pines, N. C.
J. H. Wiggins, Jr.	4232 Arbutus Dr., Raleigh, N. C. (SCS)
S. L. Wilson	605 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	268 Kilgore Hall, N. C. State Univ., Raleigh, N. C.
Paul Gawkowski	Unknown
J. E. Hobbs	Edenton, N. C.
J. C. 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, New York
E. F. Laysath	223 Lincoln Ave., Rutland, Vermont (State of Vt.)
H. S. Muller, Jr.	Box 122, Kinsale, Va.
A. E. Johnson	Cameron, N. Y.
A. A. Pruitt, Jr.	Box 283, Washington, Ga. (Champion Papers Inc.)
A. A. Santapolo	Dept. of Sociology, Fordham Univ., New York 58, N. Y.
J. T. Thurner	306 Bishop St., St. Mary's, Ga. (Gilman Paper Co.)
F. D. Williams	1226 Salem Dr., Charlotte, N. C.

## Class of 1943

H. L. Epstein	35 W. McKenzie, Stockton, Calif.
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J. N. Etheridge ..... Box 686, Plymouth, N. C. (Etheridge Land & Timber 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., NW, Washington 6, D. C. 20036 (NLMA)

Class of 1946

J. F. Hardee ..... Route 7, Raleigh, N. C.  
 C. M. Hartsock, Jr. ..... 2706 Peachtree St., Raleigh, N. C. (NC Hwy Comm)  
 Henry Kacynski ..... 1907 Chestnut Ave., Tronton, N. J.  
 R. J. Robertson ..... Route 3, Salisbury, Md.  
 S. G. Spruiell ..... 120 Lindbury Rd., Hueytown, 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 Dorsen ..... Unknown  
 W. 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, Louisburg, N. C.  
 J. B. Johnson ..... RFD. 4, Raleigh, N. C.  
 J. C. Jones ..... For. Mgmt. Ext. Spec., 260 Kilgore Hall, N. C. State Univ., Raleigh, N. C.  
 W. M. Keller ..... Head, For. Mgmt. Ext. Sect., 260 Kilgore Hall, N. C. State Univ., Raleigh  
 W. M. Keller ..... Head, For. Mgmt. Ext. Eect., 260 Kilgore Hall, N. C. State Univ., Raleigh, N. C.  
 R. D. Mahone ..... 1037 Capitol Landking Rd., Williamsburg, Va.  
 C. E. Schreyer, Jr. ..... 49 Fayette Rd., Scarsdale, N. Y. (Chas E. Schreyer & Sons, Inc.)  
 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 ..... 17 Lindley Ave., Sumter, S. C. (Plywood Co., Williams Furn. Corp.)  
 R. N. Craven ..... Box 755, Belmont, N. C.  
 N. E. Dayvault, Major ..... Route 1, Box 153E, Triangle, Va.  
 B. D. Franklin ..... P. O. Box 6293, Station H, Atlanta, Ga. (USFS, Soils Engr.)  
 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. Seltzer ..... 185 Beech St., Concord, N. C.  
 G. W. Smith, MF '58 ..... Ricks Hall, N. C. State Univ., Raleigh, N. C.  
 J. L. Smith, Jr. ..... P. O. Box 158, Mountain View, Arkansas  
 R. I. Solow ..... (Asso. Dir. Ag. Ext. Ser.)  
 Fred West ..... 119 South Gate Rd., Elkins, W. Va. (Allegheny Lmbr. Co.)  
 B. M. Zuckerman ..... Dept. of Plant Pathology, Institute of Agriculture, Rehovot, Israel (sabbatical)

Class of 1949

V. D. Adams ..... Unknown  
 B. L. Allen ..... Box 30, Benvenue Rd., Rocky Mount, 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 ..... 336 Oakdale Rd., Rocky Mount, N. C.  
 S. G. Boyce, MS '51, Ph.D. '53 ..... 397 Arden Rd., Columbus, Ohio  
 C. A. Broadway ..... (Central States For. Exp. Sta.)  
 E. F. Corn ..... Route 2, Cander, N. C.  
 ..... Dist. Forester, N. C. Forest Service, Rocky Mount, N. C.

A. C. Craft	133 Nelson Dr., Manning, S. C. (W. Va. P & P)
T. S. Davis	e/o 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. B. Geddes	Box 216, Tappahannock, Va. (Va. Div. of Forestry)
W. H. Geddes	Rt. 1, Box 713, Tecokeek, Md. (USN Oceanographic Office)
J. D. Guthrie	575 W. Shadowlawn Dr., Chattanooga, Tenn.
J. P. Harper	Box A 1, Richmond Hill, Georgia (IPC)
A. R. Harris	Box 553, Clinton, N. C.
T. M. Husell, Jr.	Box 1559, Wilmington, N. C. (IPC)
R. L. Horne	711 Royster St., Shelby, N. C. (So. Pine Inspection Bureau)
H. G. Johnson	609 Joyner St., Greensboro, N. C.
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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.
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F. P. Probst	Unknown
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B. F. Smith	Unknown
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D. K. Wilson	Regional Coordinator, Minn. Div. of Forestry, Hill City, Minn.
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#### Class of 1950

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A. C. Barefoot, MS '51, Ph.D. '57	School of Forestry, N. C. State Univ., Raleigh, N. C.
R. L. Beal	International Paper Co., Brandon, Miss.
F. W. Riddix, 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.
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W. R. Broadwell	Box 63, Roper, N. C.
J. R. Buncy	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. Curle	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.
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E. J. Engel	Box 309, Monticello, Ga.
J. T. Evans	Box 667, Sylva, N. C.
E. F. Finison	6134 Pine Ridge Ave., Alexandria, La. (USFS)
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J. A. Gravely	321 King St., Brevard, N. C.

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W. V. Griffin	Route 3, New Bern, N. C.
R. W. Gross	Unknown
R. J. Hare	709 Raleigh St., Roanoke Rapids, N. C. (Albemarle Paper Co.)
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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)
J. C. Korneyay	S. 5th St., Smithfield, N. C.
J. G. Lampe	511½ Reid St., Thomasville, N. C. 27360 (Thomasville Furn. Indus.)
H. A. Lockemer	4 Gladstone Rd., Asheville, N. C.
V. D. McDonald	211 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., Dr., NW, Hickory, N. C. (City of Hickory)
E. C. Moon	5423 Topping Place, Charlotte, N. C. (Ins. Co. No. America)
M. S. Moore	2202 Hawthorne Lane, Kinston, N. C.
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C. A. Musser	2217 Dixie Trail, Raleigh, N. C.
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W. J. Paschal	Paschal Lumber Co., P. O. Box 7, Lillington, N. C.
W. W. Paylor	Box 152, Longhurst, N. C.
W. R. Phelps	Lake States Forest Experiment Sta., Star Route 2, Rhinelander, Wisconsin (USFS)
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J. M. Poplin	1126 Sycamore St., Rocky Mount, N. C.
D. H. Price	136 Wilson St., Chester, S. C.
L. R. Propst, Jr.	Unknown
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B. W. Ratts	415 Raleigh Ave., Raleigh, N. C. (NCFS)
W. B. Rickman	c/o Mrs. W. R. Rickman, Rt. 4, Franklin, N. C.
B. H. Ropeik	Unknown
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K. B. Sexton	Unknown
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J. W. Sisson	P. O. Box 464, South Hill, Va. (Cont. Can)
H. H. Smith, Major	c/o H. B. Smith, 164 Lynn Cove Rd., Asheville, N. C. (USA)
J. F. Spivey, Jr.	N. C. Dept. of Conservation & Development, Raleigh, N. C.
H. G. Turner, Jr.	Box 255 Mitchell Star Rt., Prineville, Oregon
M. A. Tuttle, Capt.	Box 246, 48 Tact. Ftr. Wing, APO 179, New York, NY (USAF)
W. A. Tuttle	Hot Springs, N. C. (USFS)
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L. J. Walls, Jr.	Clinton, N. C.
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T. W. Whitt	Unknown
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#### Class of 1951

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C. B. Cease, Jr.	329 Carolina Ave., N.W., Orangeburg, S. C.
Charlie Cousins	Lea Lumber Co., Windsor, N. C. (Mgt.)
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P. B. Etchinson	334 Copley Rd., Upper Darby, Penn. (USFS)
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D. R. Godwin	P. O. Box 264, Sanford, N. C.
L. D. Greenwood	317 N. Palm Ave., Frostproof, Fla. (Alico Land Dev. 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. (Carolina Forestry Co.)
R. G. Jewett	Deceased
R. W. Johanson, MS '55	Southeastern Forest Experiment Station, Macon, Ga.

E. M. Jones	Far. Ext. Spec. Kilgore Hall, N. C. State Univ., Raleigh
J. G. Lusk	Homer Lumber Co., Inc., Kenova, West Va.
J. C. Masten	209 E. Wyche St., Whiteville, N. C. (Aeme Wood Corp.)
H. P. Mearham	Route 3, Goldsboro, N. C.
W. P. Mitchell	Box 1054, Kinston, N. C.
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A. C. Roane, Jr.	1208 Clay Ave., New York 56, N. Y.
S. C. Rose	Rose Surveying & 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. P. Co.)
A. F. Sknarup	RR 2, Box 191, Neshanic Station, New Jersey (Western Elec. Co.)
W. D. Shofner	Unknown
D. A. Stecker, MF '51	Andover Wood Prod. Co., Bethel, Maine
C. M. Story	2329 Glascock St., Raleigh, N. C.
T. L. Sugas	728 Athens Ave., Fayetteville, N. C.
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H. M. Westbury	S. C. Forest Service, Columbia, S. C.
C. C. Willoughby	903 Sycamore St., Weldon, N. C.

#### Class of 1952

J. D. Besse, MS '52	Butternutt, Wisconsin
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J. J. Cornett	Unknown
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J. E. Graham	1514 Omarest Drive, Columbia, S. C. 29219 (UCFS)
T. J. Ginn, MF '52	Unknown
H. H. Gresham	St. Regis Paper Co., McIntosh, Ala.
T. N. Hardin	Bureau of Land Management, Ely, Nevada
H. G. Harris, Jr.	701 Berkshire Dr., Garner, N. C.
J. S. Hinshaw	Route 5, Lexington, N. C.
S. M. Hughes	Box 23, Hallsboro, N. C. (Riegel Paper Co.)
C. A. Jackson, Jr.	Route 1, Mebane, N. C.
J. V. Jackson, Jr.	118 N. Baker St., Charlottesville, Va. (Va. Div. of For.)
E. N. Jordan	Tyner, N. C.
R. Kral	1130 Pauline St., Oak Park, Ill.
G. E. Lamb	Unknown
C. L. Lane, Jr., MSFM '61	Asst. Prof. Forestry, Forestry Dept., Clemson College, Clemson, S. C.
J. I. Ledbetter	Box 407, Badin, N. C.
J. L. Leroy	204 Woodlawn St., Walterboro, S. C.
S. E. Lewis	Farm Mgt. Forester, P. O. Box 463, Montezano, Washington
W. K. Lusk	Homer Lumber Co., Inc., Kenova, West Va.
B. C. Meeker	Unknown
J. H. Miller	Reichhold Chemicals, 1512 E. Rowland Ave., W. Covina, Calif.
R. A. Moore, MS '52	State Univ. of Forestry, Syracuse 10, New York
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A. L. Neilson	176 Webb Cove Rd., Asheville, N. C.
G. P. Peroni	Box 266, Paul Smith's College, Paul Smiths, New York
D. F. Peterson	Lincoln St., Lincoln, Maine
R. B. Phelps	1454 N. Beauregard St., Alexandria, Va. (USFS)
J. B. Reid	c/o C. G. Reid, Washington, Va.
R. G. Reynolds	6608 Eastbrook Rd., Columbia, S. C.
V. R. Ross	132 Beverly Rd., Asheville, N. C. (Ross Assos.)
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W. V. Tate, Jr.	608 West 5th St., Winston-Salem, N. C.
T. G. Whipple, MF '52	Rt. 4, Box 123, Orangeburg, S. C.
S. D. Wiggins, MF '52	800 Overbrook Dr., Thomasville, N. C.

#### Class of 1953

P. W. Adams	1341 Sanford Dr., Columbia, S. C. (Fed. Land Bank of Columbia)
G. H. Atkins	Wiley St., Baton Rouge, La.
S. D. Bean	c/o TVA, Clinton, Tenn.
J. W. Bennett	P. O. Box 454, McClellanville, S. C. (USFS)
D. L. Breneman, FM '53	Holms State Forest Nursery, Penrose, N. C.
E. C. Carr, Jr.	Box 310, Dillon, S. C.
K. M. Corbett, Jr.	P. O. Box 251, New Bern, N. C.
P. F. Crank, Jr.	Point Harbor, N. C.
D. M. Crutchfield	c/o W. Virginia Pulp & Paper Co., Georgetown, S. C.
R. E. Dorward	Rt. 1, Vonove, Tenn. 37885 (Hiwassee Land Co.)
R. H. Eglleston	Box 1564, Burlington, N. C. (NC Wildlife Res. Comm.)
J. D. Garman	Rt. 3, Reisterston, Maryland

Max Halber	.....	Unknown
H. M. Harris	.....	3 Pine Tree Rd., Asheville, N. C.
J. M. Hayes	.....	427 Glenbrook Dr., Raleigh, N. C.
G. H. Holshouser	.....	Linville, N. C.
H. W. Hoeker	.....	Oyster River Rd., Durham, N. H.
R. G. Jenkins	.....	140 Sorrell Way, Eugene, Oregon
F. S. Keilung	.....	Box 224, Gary, W. Va.
E. H. McGee	.....	P. O. Box 27, Asheboro, N. C.
H. F. Layman	.....	Riegel Paper Corp., Woodland Dept., Acme, N. C.
Milton Noble	.....	Portsmouth, Kentucky
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O. C. Tissue	.....	Miss. For. Comm., Box 649, Jackson, Miss.
C. E. Webb	.....	Ouachita National Forest, Oden, Ark., (USFS)
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J. C. Wessell	.....	3224 Julian Dr., Raleigh, N. C.
J. H. Wheless	.....	Route 4, Louisville, N. C.
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D. O. Yandle, MS '54	.....	Southeastern Forest Experiment Station, Fed. Bldg., Asheville, N. C.

#### Class of 1954

H. J. Andersen	.....	Deceased
T. W. Arnold	.....	Poplar Court, Plymouth, N. C. (Weyerhaeuser)
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W. M. Blanton	.....	Globe Parlor Furniture Co., High Point, N. C.
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J. C. Biggert	.....	Bryceville, Fla.
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J. J. Derro, Jr.	.....	Stewart St., West Newbury, Mass. 01985 (Science teacher)
O. J. Dutka	.....	Unknown
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M. S. Katana	.....	Forestry Institute, Abugraib, Iraq
B. G. King	.....	1706 Chestnut Hill Drive, Riverton, New Jersey
B. Lalich	.....	Firestone Plantations, Harbel, Liberia, West Africa
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A. S. Messenger	.....	3407 W. Mt. Hope Ave., Lansing 15, Mich.
J. E. Nicholson	.....	Glenn Heights, Chapel Hill, N. C. (NCFPS)
J. W. Norris	.....	304 Minturn Ave., Hamlet, N. C.
A. F. Paetzell	.....	4313 Oliver Rd., NE, Roanoke, Va.
D. B. Payne	.....	Route 3, Canton, N. C.
L. F. Rand	.....	P. O. Box 385, Palm Ave., Palatka, Fla. (O. H. Morris Co., Inc.)
C. F. Raper	.....	2765 Gwinette Dr., Macon, Ga. (Travelers Ins. Co.)
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C. S. Sewell	.....	P. O. Box 819, Starke, Fla. (St. Mary's Kraft Co.)
F. W. Taylor, Ph.D. '56	.....	School of Forestry, University of Missouri, Columbia, Mo.
T. L. Thrash	.....	c/o U. S. Forest Service, New Bern, N. C.
J. P. Tunstall	.....	Edward, N. C.
J. J. Wells	.....	Box 183, Rutherfordton, N. C. (Doncaster)
D. F. Wentworth	.....	179 Bennett Rd., Hampden, Mass.
B. B. White	.....	Williams Lumber Co., Plymouth, N. C.
W. B. Woodrum, Jr.	.....	398 E. Kentucky St., Franklin, Ind.
E. B. Wright, Jr.	.....	Ranger Station, Marblemount, Wash. 98267 (USFS)
L. H. Yost	.....	c/o Major Paul A. Yost, 137 91st Ave., St. Petersburg, Fla.

#### Class of 1955

O. G. Alfaro	.....	DTICA, Casilla 13,120 Santiago, Chile, South America
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J. B. Brown	.....	Albemarle Paper & Manufacturing Co., Maysville, N. C.
J. F. Chapman	.....	Bonita Ranger Sta., Clinton, Montana 59825 (USFS)
F. W. Cobb, Jr.	.....	1110 Upper Happy Valley Rd., Lafayette, Calif. (Univ. Cal.)
C. E. Cramer	.....	25-47 72nd St., Jackson Heights, N. Y.
E. L. Dallery	.....	111 N. Harvin St., Sumter, S. C.
E. D. Flowers	.....	216 Fair St., Baxley, Ga. (Union Bag-Camp. Corp.)
T. R. Frazier	.....	Unknown
L. E. Gallup, MS '55	.....	Tar Heel Wood Treating Co., Route 1, Cary, N. C.
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R. H. Goslee	.....	303 S. 8th St., Mehane, N. C.
P. L. Hardy, Jr.	.....	Box 682, Fredericksburg, Va. (Consultant)
E. L. Hiatt	.....	Box 192 Ridgeway, Va.

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R. J. Kalish ..... Route 1, Freehold, N. J.  
D. B. King, MWT '55 ..... 101 Buddin St., Easley, S. C.  
R. E. Lankford ..... P. O. Box 202, Nashville, N. C.  
B. J. Larkey ..... U. S. Forest Service, Hector, Ark.  
W. A. Larson ..... 523 Colonial Dr., Sumter, S. C.  
T. J. Lester ..... 208 Starling Ave., Martinsville, Va.  
E. H. McGee ..... County Forester, P. O. Box 27, Asheboro, N. C.  
Q. A. Malmquist ..... Northfield, Vermont (Vt. Bureau of Ind. Research, Norwich Univ.)  
O. A. Manuey ..... 20 Tradd St., Charleston, S. C.  
G. B. Moulthrop ..... 2305 W. 47th Ave., Pine Bluff, Arkansas (W. S. Fox & Sons)  
G. H. Pierson ..... 55 Wetmore Ave., Morristown, N. J.  
W. F. Price, MF '55 ..... 654 S. Rosewood, Kankakee, Ill.  
C. J. Purdy, Jr. .... Brook Lane, Chester, Va. (Pres. Purdy Lmbr. Co.)  
J. F. Robinson ..... 511 Maple St., Jacksonville, N. C.  
J. E. Runmisse, Jr. .... 570 Monroe St., Hopewell, Va.  
E. H. Seaman ..... 435 S. Broder St., Anaheim, Calif.  
D. R. Smith ..... Bemis Hardwood Lumber Co., Robbinsville, N. C.  
J. E. Tekel ..... U. S. Forest Service, Petersburg, Va.  
R. J. Thomas, MWT '55 ..... N. C. State Univ., Raleigh, N. C.

**Class of 1956**

R. D. Barr, Jr. .... U. S. Forest Service, Greensboro, Ga.  
R. H. Beal ..... P. O. Box 151, Gulfport, Miss.  
M. T. Brooks ..... Tappahannock, Va.  
H. T. Caldwell ..... c/o Tenn. Division of Forestry, 617 Cumberland Ave., Knoxville  
P. B. Carson, Jr. .... 607 Boykin Rd., Camden, S. C. (SC Comm. For.)  
R. F. Chrismer, MWT '56 ..... 317 Katherine St., Easley, S. C.  
W. R. Curtis ..... Rocky Mount Exp. Station, ASC Campus, Flagstaff, Ariz.  
G. L. Dickson, Jr. .... Virginia Div. of Forestry, Box 386, Farmville, Va.  
W. B. Dozier ..... Rt. 2, Sherwood Forest, Chapel Hill, N. C. (Consultant)  
W. J. Groah, Jr., MWT '56 ..... Madison Hall, Fort Republic, Va.  
G. Haney, MS '56 ..... P. O. Box 3347, Charlottesville, Va.  
K. T. Harrell ..... Route 1, Watha, N. C.  
C. A. Hood ..... 607 12th St., Butner, N. C.  
D. W. Horton ..... c/o South Carolina Comm. of Forestry, Camden, S. C.  
D. C. Jones ..... c/o Mrs. H. C. Jones, 318 Cherry St., Oxford, N. C.  
W. J. Jones, Jr. .... 409 W. Church St., Elizabeth City, N. C.  
L. A. Kilian ..... Route 1, Box C-41, Whitefile, N. C. (NCFSS)  
G. N. Leinback, Jr. .... Route 1, Winston-Salem, N. C.  
A. L. Martin ..... 4911 W. 1st St., Winston-Salem, N. C.  
R. J. Miller ..... School of Forestry, Yale University, New Haven, Conn.  
F. B. Monroe, Jr. .... Route 1, Cary, N. C.  
W. C. Moody, Jr. .... Champion Paper & Fibre Co., Box 308, Edgefield, S. C.  
K. A. Pletcher, MF '56 ..... Unknown  
E. J. Rayburn ..... U. S. Forest Service, 7th St., Etowah, Tenn.  
E. F. Rigouard, Jr. .... General Delivery, Chatsworth, Ga. (USFS)  
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W. G. Spencer ..... 1232 Washington St., Cape May, New Jersey  
J. W. Stokes ..... Box 1045, Albemarle, N. C.  
J. G. Swift ..... Box 405, Amhurst, Va. (Va. Div. of Forestry)  
J. W. Tester ..... 2737 Fletcher Ave., Fernandina Beach, Fla.  
J. E. Webb, Jr. .... 1632 Glacier Ave., Juneau, Alaska (USFS)

**Class of 1957**

S. M. Adams ..... Route 3, Four Oaks, N. C.  
W. C. Asher, MSF ..... U. S. Forest Service, 200 P. O. Building, Box 92, Lake City, Fla.  
W. P. Andrews, Jr. .... Champion Paper Co., Canton, N. C.  
P. M. Boulogne, Jr. .... Research Forester, Union Bag-Camp Paper Co., Savannah, Ga.  
J. C. Burns ..... 190 High St., Metuchen, New Jersey  
G. L. Butler, Jr. .... Box 111 Lineville, Ala. (Cosco R. Nsp. Co., Div. Kim. Clark Corp.)  
D. S. Calderon ..... 35 Clinton St., Newton, N. J. (N. J. Bureau of Forestry)  
M. R. Childs, MWT ..... 1403 Diana Dr., Lufkin, Texas  
V. A. Ciliberti, Jr. .... Box 28, St. Croix Paper Co., Woodland, Wash. Co., Maine  
R. A. Crumpler ..... 321 S. 6th St., Fernandina Beach, Fla.  
V. G. Dowless, BSPPT '63 ..... N. 8th St., Fernandina Beach, Fla. (Container Corp.)  
C. A. Duckworth ..... Box 253, Ashland, Ala.  
J. D. Edwards ..... Box 95, Pisgah Forest, N. C.  
J. B. Emory ..... 2713 General Travis, Lake Charles, La.  
R. W. George, Jr. .... Chesapeake Corp. of Virginia, West Point, Va.  
G. S. Gibbs ..... U. S. Forest Service, P. O. Box 68, Crawfordville, Fla.  
A.R.O. Al-Hadithy ..... Directorate General of Forests & Plantations, Baghdad,  
Republic of IRAQ  
W. L. Hadley, MF, Ph.D. .... Aluminum Co. of America, Pittsburg, Penn.

C. A. Hood ..... Route 8, Johnson City, Tenn.  
 S. T. Hudson ..... Dept. of Forests & Parks, St. Albans, Fairfax, Vermont  
 J. S. Kelley ..... U. S. Forest Service, Franklin, N. C.  
 E. J. Lawson, Jr. .... 7015 Hielo Dr., Jacksonville 11, Fla.  
 W. B. McKenzie ..... 119 Plymouth Rd., Rome, Ga. (Consultant)  
 J. E. Masaschi, MWT ..... 1090 Moss Ave., Orangeburg, S. C. (US Plywood)  
 K. V. Matthews ..... Route 1, Box 55, Kernersville, N. C.  
 J. A. Morgan ..... 138 W. Terrace Apts., Asheville, N. C.  
 R. A. Nelson ..... 68 Carthage Rd., Scarsdale, N. Y.  
 C. R. Norton ..... Deceased  
 R. G. Norwood ..... 3313 Ashby Place, Raleigh, N. C.  
 J. R. Parker ..... 2820 Virginia Ave., Charlotte N. C.  
 J. U. Perry ..... Louisville, N. C.  
 P. J. Pickenheim II ..... 819 Cascade St., Erie, Penn. (City of Erie Arborist)  
 C. M. Price, Jr. .... Prospect, Va.  
 W. R. Stevens ..... Box 553, Burgaw, N. C. (Riegel Paper Corp.)  
 J. C. Stevenson ..... 330 W. 77th St., New York 24, N. Y. (Chase Manhattan Bank)  
 R. P. Taylor ..... P. O. Box 206, Wakefield, Va. (Union Bag-Camp Mfg.)  
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 Z. H. Terzi, MS '65 ..... c/o Directorate General of Forests, Baghdad, IRAQ  
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#### Class of 1958

G. H. Andrews, Jr. .... Pittsboro, N. C.  
 B. W. Barden ..... 1077 Ash St., South Boston, Va.  
 W. S. Barlow ..... 513 York St., Covington, Va.  
 W. A. Blalock ..... Route 1, Horse Shoe, N. C.  
 R. A. Brown ..... 305 N. Holden Rd., Greensboro, N. C.  
 H. H. Cabe ..... Route 1, Sylva, N. C.  
 N. K. Clark ..... 12 East 49th St., Savannah, Ga.  
 J. H. DeCoste ..... 135 West Oak St., Basking Ridge, N. J.  
 D. H. Dillard, Jr. .... Box 134, Sylva, N. C.  
 A. W. Donegan ..... Box 101, Palmyra, Va. (Consultant)  
 T. A. Eakins ..... Box 516, Dunlap, Tenn.  
 T. W. Earle, Jr. .... Rt. 2, Box 227 H, Washington, Ga. (Southland Timber Corp.)  
 H. H. Erwin, III ..... Rt. 4, Lenoir, N. C. (NCFS)  
 J. B. Fortin, Jr. .... Dist. Ranger, Chattahoochee Nat'l For., 508 S. Main St.,  
 LaFayette, Georgia  
 R. C. Franklin ..... 1109 Toledo Ave., Lynchburg, Va.  
 J. C. Goodman ..... 501 Maupin Ave., Salisbury, N. C.  
 C. R. Grady ..... N. C. Forest Service, Education Building, Raleigh, N. C.  
 G. G. Green, Jr. .... 2506 Sater St., Durham, N. C.  
 R. F. Gurganus ..... U. S. Forest Service, Robbinsville, N. C.  
 C. B. Harding ..... 119 State St., Emporia, Va.  
 A. E. Haught, MF ..... U. S. Forest Service, Box 43, Sacramento, New Mexico  
 T. O. Hilbourn, III, MS '65 ..... Weyerhaeuser Co., N. C. Division, Plymouth, N. C.  
 C. C. Hills ..... P. O. Box 637, Holly Hill, S. C. (Consultant)  
 A. R. Al-Jaffari ..... Dept. of Forestry, Forestry Service, Baghdad, IRAQ  
 T. B. Kennedy, Jr. .... 240 N. Anderson Ext., Morganton, N. C.  
 J. C. Kirkman, Jr. .... Box 186, Jamesville, N. C.  
 M. R. Kunselman ..... 102 Point Circle, Belmont, N. C. (NCFS)  
 C. N. O'Quinn ..... Moncks Corner, S. C. (Self-empl.)  
 J. P. Roberts, MF '58 ..... 924 Philadelphia Nat'l Bank Bldg., Philadelphia 7, Penn.  
 (Baker Weeks & Co.)  
 R. J. Rough ..... Riegel Paper Corp., Aeme, N. C.  
 L. A. Rundbaken ..... 521 W. 189 St., New York, N. Y.  
 A. M. Salih ..... Ana-Dellah Ali Quarter, Ana, IRAQ  
 G. E. J. Sawyer ..... P. O. Box 79, Providence Forge, Va.  
 W. L. Shearin, Jr. .... Unit Structures, Morrisville, N. C.  
 M. S. Al-Simanni ..... Gov't of Iraq, Directorate General of Industrial Design and  
 Construction, Ministry of Industry, Baghdad, IRAQ  
 R. C. Simmons ..... S. C. Commission of Forestry, Spartanburg, S. C.  
 D. M. Thompson ..... 110 N. Liberty St., Gastonia, N. C.  
 F. L. Thorne ..... Caroline St., Sylva, N. C.  
 E. C. Thorp ..... 14 Prospect St., Cardwell, N. J.  
 M. T. Tilghman ..... c/o J. C. Tilghman, 611 Cedar St., Weldon, N. C.  
 D. L. Torrence ..... 108 E. 2nd St., South Hill, Va.  
 B. C. Westmoreland ..... 1st St., West Point, Va.  
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#### Class of 1959

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 R. J. Bickel ..... 7 A Tradd St., Charleston, S. C.  
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J. A. Brown ..... Box 266, Glen Alpine, N. C. (Drexel Furn. Co.)  
W. C. Capps ..... Box 66, Alberta, Va.  
W. J. Coker, Jr. .... 224 Roanoke Ave., Roanoke Rapids, N. C.  
R. L. Cooke ..... U. S. Forest Service, Missoula, Montana  
T. P. Davis ..... Route 2, Box 432, Shelby, N. C. (So. Mtn. Pulpwood Co.)  
O. C. Dedge ..... 3114 Comet Rd., Richmond 29, Va. (Va. Elec. & Power Co.)  
G. F. Dozier ..... c/o 18 Dixie Dr., Raleigh, N. C.  
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E. L. Gibson ..... 1420 Nottaway Ave., Richmond 27, Va.  
R. C. Gilbert ..... Olmstead Hill Rd., Wilton, Conn.  
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E. V. Griffin ..... Box 345, Naahville, N. C.  
H. D. Hannah ..... Virginia Division of Forestry, Waverly, Va.  
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D. G. Jackson ..... 119 Camellia Dr., Summerville, S. C. (Broyhill Furn. Fac.)  
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T. S. Koenig ..... 1105 Garland St., Pampa, Texas  
T. P. Lennon ..... U. S. Forest Service, Avery, Idaho  
J. H. Lively, Jr. .... U. S. Forest Service, Idyllwild, Calif.  
H. M. Lupold ..... 3130 Kershaw St., Columbia, S. C. (Consultant)  
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R. L. Mattocks, III ..... Albemarle Paper & Manufacturing Co., Roanoke Rapids, N. C.  
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O. C. Morgan, Lt. .... 104 Dakota Drive, Jacksonville, Ark. (USAF)  
J. K. Morton ..... Box 72, Livingston, Tenn. (TFS)  
E. G. Owens ..... 1450 Bacon's Bridge Rd., Summerville, S. C. (W. Va. P & P Co.)  
J. D. Plowman ..... Box 126-B, R-2, Mt. Gilend, N. C.  
T. L. Price, MF ..... Box 51, Oxford, Miss. (USFS)  
E. L. Ross ..... Champion Paper Co., Houston, Texas  
D. Ruten ..... Fleetwood, N. C.  
J. K. Russell ..... c/o International Paper Co., Long-Bell Div., Longview, Wash.  
D. H. Scanlon, III ..... Firestone Plantations Co., Harbel, Liberia, West Africa  
W. A. Schul, Jr. .... 462 Clinton Ave., Hamilton, Ohio  
E. R. Smith, MF ..... 2360 Lvon St., Raleigh, N. C.  
R. W. Stonecypher ..... Southland's Exp. Forest, International Paper Co.,  
Bainbridge, Ga.  
J. O. Sturgill ..... West Virginia Pulp & Paper Co., P. O. Box 55, Petersburg, W. Va.  
T. L. Summer ..... 305 S. Elm St., Cherryville, N. C.  
K. O. Summerville ..... School of Forestry, N. C. State Univ., Raleigh, N. C.  
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J. J. Thiipen, Jr. .... Dudley, N. C.  
H. C. Tibbals ..... P. O. Box 218, Oneida, Tenn.  
T. Walker ..... Box 86, Clayton, Ohio  
R. V. Welch ..... P. O. Box 64, He'ena, Ga. (Union Bar-Camp Corp.)  
J. L. West ..... c/o Louis E. West, Sr., Star Rt. 1, Plantersville, S. C.  
D. G. Winkler ..... Pottersville Rd., Chester, N. J.  
D. V. Woolf ..... 1502 Mott Ave., Far Rockaway 91, N. Y.

#### Class of 1960

W. T. Banner ..... P. O. Box 433, Yadkinville, N. C. (UCFS)  
P. W. Barnard ..... U. S. Forest Service, San Francisco 11, Calif.  
J. L. Bass ..... 109 Church St., Tarboro, N. C.  
J. F. Batten ..... c/o L. C. Batten, Rt. 2, Whiteville, N. C.  
J. N. Bensley ..... Box 644, Sylva, N. C.  
G. H. Belt, Jr. .... 2321 Erwin Rd., Durham, N. C. (Duke Forestry School)  
D. P. Bhargava ..... N. Y. State College of Forestry, Syracuse, N. Y.  
R. M. Bost ..... P. O. Box 567, Pickens, S. C. (S. C. Nat'l Bank)  
D. C. Bourne ..... Box 394, Georgetown, S. C.  
R. F. Brake ..... Chesapeake Corp. of Va., West Point, Va.  
D. L. Bramlett ..... 1224 Harris St., Charlottesville, Va. (SEFES)  
L. G. Breeman ..... Kona, N. C.  
S. D. Brewer ..... P. O. Box 162, Pittsboro, N. C.  
C. W. Brinkley ..... Route 4, Box 376, Salisbury, N. C.  
R. D. Byerly ..... Box 63, Franklin, Ga. (Ga. Kraft Co.)  
J. R. Carpenter ..... 822 Kings Rd., Shelby, N. C.  
D. G. Carr ..... N. C. Forest Service, Rocky Mount, N. C.  
W. C. Carrigan ..... Box 137, Sharptown, Md. (Chesapeake Corp. of Va.)  
C. D. Carter ..... 1923 Darnell Dr., Kingsport, Tenn.  
W. G. Cawthorne ..... 2709 Patrick Dr., Raleigh, N. C. (Albemarle Paper & Mfg. Co.)  
J. P. Churchill, MSWT ..... 4740 Holiday Dr., Fairfield, Ohio 45014  
(Champion P & P Co.)  
J. P. Clardy ..... 1219 Richmond Dr., Georgetown, S. C.  
T. W. Collier ..... 119 Willow Rd., Rockingham, N. C. (NCFS)  
T. W. Corkern ..... International Paper Co., Pine Bluff, Ark.  
C. A. Doggett ..... Rt. 4, Shelby, N. C.

J. E. Engler	USFS, Garden Valley Ranger Sta., Garden Valley, Idaho
G. K. Elades	P. O. Box 2848, Raleigh, N. C. (So. Pine Assn.)
C. D. Eskridge	346 North Race St., Statesville, N. C.
A. D. Fary, Jr.	Institute of Paper Chemistry, Appleton, Wis.
G. R. Foust	638 E. Park, Apt. 11, Tallahassee, Fla. (Borden Chem. Co.)
J. H. Fox	4222 Oakland Ave., Apt. 5, Greensboro, N. C.
J. M. Frank	102 E. Main St., Plymouth, N. C.
R. L. Hagwood, Jr.	Director of Sand Hills State Forest, Patrick, S. C.
J. R. Hamilton, Ph.D.	School of Forestry, Univ. of Ga., Athens, Ga.
Glenn Hampton	Mammoth Lakes Ranger Sta., Mammoth Lakes, Calif.
H. D. Hannah	Div. of Forestry, Dept. of Cons. & Econ. Dev., Waverly, Va.
R. N. Harding	International Paper Co., Georgetown, S. C.
F. S. Hasenoehrl	Troy Ranger Sta., Troy, Mont. (USFS)
G. A. Helms	628 Cleveland Ave., Salem, Va. (Morris Super Stores, Inc.)
K. D. Henderson	311 Alabama St., Spindale, N. C.
E. R. Hinson, Jr.	Champion Paper Co., Pasadena, Texas
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A. G. Hofmann	2397 Grand Ave., New York, N. Y.
P. P. Holland	Rt. 1, Franklin, Va.
A. R. Hollowell	N. C. Pulp Co., Plymouth, N. C.
C. A. Honeycutt, Jr.	40 Cumberland Circle, Asheville, N. C.
J. W. Howell	U. S. Forest Service, Groveland, Calif.
T. G. Hunter	Virginia Div. of Forestry, Farmville, Va.
T. M. Irvin	Masonite Corp., Covina, Calif.
S. Jennings	P. O. Box 587, Hickory, N. C.
T. W. Kirkpatrick	Champion Paper and Fibre Co., Canton, N. C.
R. E. Leach	Box 144, Greenville, Ga.
W. E. Loos, MSWT	Engineering Exp. Sta., West Virginia Univ., Morgantown, W. Va.
H. G. Lovin, Jr. MF	P. O. Box 550, Lancaster, S. C.
S. S. Luczycki	P. O. Box 56, Great Bend, New York
J. E. McCaffrey, Jr.	International Paper Co., Pine Bluff, Arkansas
R. A. McCormick	Route 1, Box 837, Spring Lake, N. C.
J. W. McMinna	Apt. 2, 212 Dean St., East Fort Myers, Fla. (SEFES)
J. D. McNatt	2622 Fairfield Place, Madison, Wis. 53704 (US For. Prod. Lab.)
K. P. Magette	P. O. Box 27, Courtland, Va.
E. L. Mizell	818 Ave., East, Bogalusa, La.
M. L. Moody	Rt. 3, Box 486A, Wilmington, N. C.
C. F. Moore, II	S. C. State Comm. of Forestry, York, S. C.
R. M. Nelson, Jr., MS '64	Southeastern Forest Exp. Sta., 2835 Vineville Ave., Macon, Ga.
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J. P. Pridgen	Sinclair Lumber Co., Laurinburg, N. C.
J. T. Rice, MSWT, Ph.D. '64	School of Forestry, N. C. State Univ., Raleigh, N. C.
D. H. Robbins	1911 West Cole St., Dunn, N. C.
J. H. Roberds	School of Forestry, N. C. State Univ., Raleigh, N. C.
T. L. Robinson	St. Regis Paper Co., Jacksonville, Fla.
P. C. Rose	3619 Nine Mile Rd., Richmond, Va.
N. A. Russell	Institute of Paper Chemistry, Appleton, Wis.
H. W. Scheld, Jr.	Rt. 2, Box 416, Statesville, N. C.
J. H. Scott, Jr.	Corp. Engineering, c/o J. H. Scott, P. O. Box 243, Franklin, Va. (Forward)
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R. W. Sherwood	St. Regis Paper Co., New York, N. Y.
E. R. Sluder, MSF	93 S. Pershing St., Asheville, N. C.
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K. E. Steppe	4801 Boonsboro Rd., Lynchburg, Va.
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L. R. Taylor, Jr.	408 Maple St., Weldon, N. C. (Asst. Co. Agent)
E. F. Thompson, MSF	1517 W. Walnut, El Reno, Okla.
J. R. Thompson	D-4 Sapphire Manor, Brevard, N. C.
M. G. True, Jr., MF	c/o M. G. True, Sr., Eddyville, Iowa
J. B. Vinson	Chesapeake Corp. of Va., West Point, Va.
R. S. Wallinger	c/o West Va. Pulp & Paper Co., Charleston, S. C.
D. G. Young	U. S. Forest Service, Circleville, Utah

#### Class of 1961

C. R. Allen	97-G Johnson Homes, Goldsboro, N. C.
R. G. Avera	Champion Paper & Fibre Co., Pasadena, Texas
J. O. Baker, Jr.	130 31st Ave., N. W., Hickory, N. C.
W. R. Ball	Rt. 2, Thomaston, Ga. (Armstrong Cork Co.)
D. C. Blizard	P. O. Box 115, Freeport, Fla. (Armstrong Cork)
A. D. Bluyette	3800 Gov't Rd., Richmond, Va. (Va. Div. For.)
E. W. Bradley, Jr.	Rt. 10, Box 601, Charlotte, N. C. (Pacific C & Found.)
C. S. Briggs	925 Tatum Dr., New Bern, N. C. (USFS)
R. B. Brill	Urbanna, Virginia
C. C. Brown	535 Virginia St., Roanoke Rapids, N. C.
W. B. Buckley	TV, Asheville, N. C.
C. N. Carter	Institute of Paper Chemistry, Appleton, Wis.

G. K. Chandrathil ..... Circle Forest Officer, West Coast Paper Mills Ltd., Dandeli, INDIA  
H. C. Cuninghame, Jr. .... RFD 4, Box 679, Elizabeth City, N. C. 27909 (NCFS)  
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Ted Harris ..... 1827 Mimosa Dr., Greensboro, N. C. (So. Pine Inspection Bureau)  
Thomas Hinson ..... Bowaters Carolina Corp., Catawba, S. C.  
P. C. Hogan ..... Box 515, Troy, N. C.  
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J. L. Martin ..... Wine St., Mullins, S. C.  
R. W. Miller ..... 213 E. Harford St., Milford, Penn. (USA)  
A. R. Moore ..... 1930 Parker Lane, Rockingham, N. C. (NCFS)  
L. A. Nichols ..... Box 29, Rt. 1, Wellisboro, Penn. (USA)  
R. C. O'Dowd ..... 108 Oxford St., N.E., Abingdon, Va.  
T. A. Owens ..... Hudson Pulp and Paper Co., Palatka, Fla.  
W. H. Peele, Jr. .... Albemarle Paper and Mfr. Co., Roanoke Rapids, N. C.  
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E. C. Puckhaber ..... Dixie Cup Co., Easton, Tenn.  
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C. C. Rice ..... S. C. State Comm. of Forestry, Patrick, S. C.  
H. E. Royce ..... Rt. 1, Cecilia, Ky. (Ky. Div. Forestry)  
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L. H. Stone, Jr. .... 704 E. Blvd., Charlotte, N. C.  
C. J. Su ..... College of Forestry, State Univ. of N. Y., Syracuse 10, N. Y.  
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C. L. Wilson ..... 122 Underdown Ave., Lenoir, N. C.  
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Class of 1962

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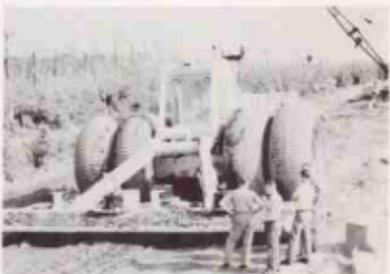
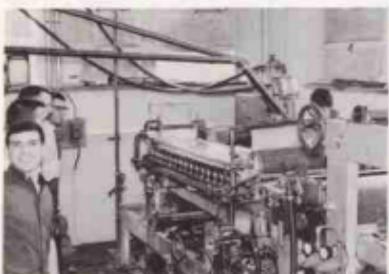
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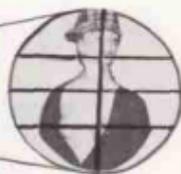
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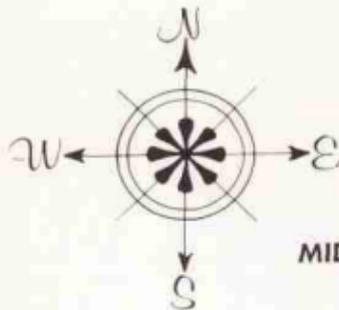
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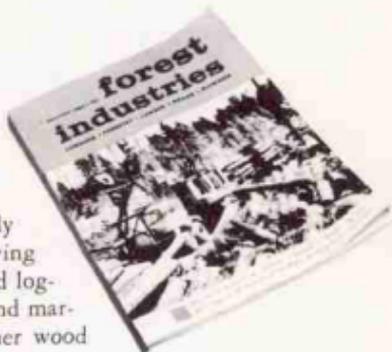


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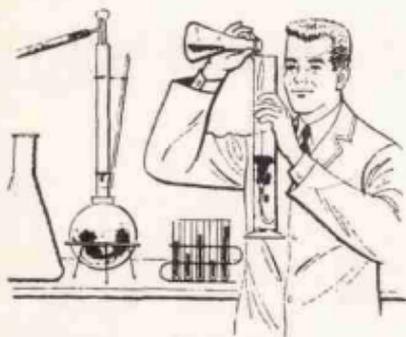
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**BRUNSWICK PULP AND PAPER CO.**

**manufacturers of high quality pulp and paperboard**

**for**

**The Mead Corporation and Scott Paper Company**

# CHAPMAN CHEMICALS

*preserve the value of forest products*

**PERMATOX** Controls stain, mold and decay in hardwood or soft wood lumber during air seasoning. Costs only a few cents per thousand board feet. Dip or spray.

**MILLBRITE** Emulsion of waxes, resins and a penta-derived toxicant which gives dry, finished lumber water repellency and weather protection from mill to job site.

**AMBRITE** Low-cost log spray reduces losses from degrade lumber due to damage by insects, stain or mold. Equally effective on hardwood and softwood logs. Permits safe stockpiling of logs.

Effective insect control chemical for use on logs and lumber. Used where stain is no problem or mixed with Permatox 10-S for complete protection against insects, sap stain and mold.

**SEALTITE 60** Sharply reduces losses caused by end-checking in logs and lumber by controlling the drying rate and thereby reducing internal stresses. Available in brilliant colors for identification of quality lumber.

**PENTA-WR** Water-repellent preservative for control of checking, swelling, warping, mold, mildew, insect attack and rot in lumber and millwork. Clean and paintable. Widely used by millwork plants.

**POL-NU** Patented formulation of pentachlorophenol for ground-line treatment of standing poles. Replaces natural loss of preservative from original treatment and adds years of service life.

**PENTA PRESERVATIVE** Protects wood from decay and insects. Will not evaporate or leach out. The clean, modern wood preservative widely used wherever wood is exposed to damage by weather or insect attack.

*Write for literature*

Memphis 9, Tennessee



Riegel's nursery superintendent Howard Mills inspects graft of scion from selected pine.

**RIEGEL'S SEED ORCHARD OF SELECTED PINE TREES WILL PRODUCE SUPERIOR QUALITY SEED TO GROW 15 MILLION SEEDLINGS EACH YEAR AT RIEGEL'S FOREST TREE NURSERY AT LUMBERTON.**

**RIEGEL FORESTERS SUPPLY OVER ONE-HALF MILLION CORDS OF WOOD EACH YEAR FOR RIEGEL'S PULP MILL THROUGH AN ACTIVE PROGRAM OF:**

**LAND ACQUISITION**—Landowner contact, determination of volume, evaluation, soil testing, surveying and title clearance.

**FOREST MANAGEMENT**—Road construction, drainage, site preparation, seedling production, planting, protection, rotations, yields and timber sales.

**WOOD PROCUREMENT**—Through independent wood dealers, Riegel purchases pulpwood harvested from farm wood lots, other private land and company lands.

**CONSERVATION AND PUBLIC RELATIONS**—Directed toward the private landowner through extensive technical forestry assistance and information.

**RIEGEL PAPER CORPORATION  
RIEGELWOOD, NORTH CAROLINA**



Associated with the  
**SCHOOL OF FORESTRY**  
through

- Cooperative Tree Improvement Program
- Operation of Hofmann Forest
- Pulp and Paper Foundation Scholarships
- Research Projects
- Summer Work for Students
- Representation on Advisory Committees
- Employment of Alumni—95% of our Foresters are N. C. State Graduates
- Cooperative Hardwood Management Program



PAPER MFG. CO.  
ROANOKE RAPIDS, N.C.

Established in 1906 as Halifax Paper Company, Inc.

A Division of Albemarle Since 1937



## ASTEN DRYER FELTS

**"ECONOMY IN THE LONG RUN"**

### **ASTEN-HILL MFG. CO.**

Philadelphia 29, Pa.

Walterboro, S. C.

Salem, Ore.

Asten-Hill Limited

Valleyfield, Quebec

## INDIAN FIRE PUMPS

**FIRE FIGHTING**



**Yesterday and Today**

# THE MEAD CORPORATION

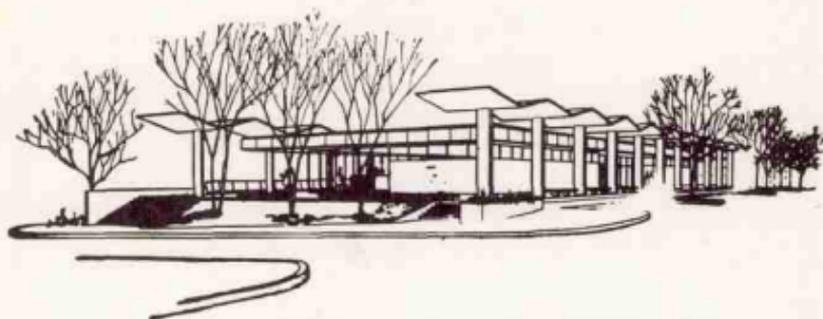
*"Paper Makers To America"*



ESTABLISHED 1846

THE SYLVA DIVISION

SYLVA, NORTH CAROLINA



*A NATIONALLY RECOGNIZED INSTITUTION WITH*

*A "Service" Background  
Of Over 48 Years*

*DEVOTED SOLELY TO THE SPECIALIZED NEEDS OF  
NORTH CAROLINA STATE STUDENTS,  
FACULTY, STAFF, AND "FRIENDS OF THE COLLEGE."*

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**STUDENTS SUPPLY STORES**

**NORTH CAROLINA STATE**

## THE FORESTER'S DUTY

As a graduate forester you are equipped with the knowledge that tomorrow's forests must be planned today. Now it becomes an important part of your job to tell others how important trees are to the South's economy, and inspire them to plan, plant and nurture their forests as an investment for the future.

### CATAWBA TIMBER COMPANY

Catawba, South Carolina

### HIWASSEE LAND COMPANY

Calhoun, Tennessee

Growing and Buying Pulpwood  
For Bowaters in the South

HELPING TO BUILD

*A Finer Carolina*

THROUGH

*Industrial Expansion*

*Agricultural Development*

*Community Improvement*

**CAROLINA POWER & LIGHT COMPANY**

*An investor-owned, tax-paying, public utility company*

## HAVE YOU PLANNED YOUR CAREER?

Plywood is a household word, and United States Plywood Corporation is synonymous with leadership in the field of both hardwood and softwood plywood. United States Plywood has led in making prefinished hardwood plywood available to homeowners in every economic bracket. The use of Weldwood prefinished paneling as decorative wall material for new homes, as well as older homes, appears to be limitless.

Sales have grown commensurately with production, which, together with research and other contributions in the buildings materials field, has increased United States Plywood sales from \$107 million in 1952 to over \$400 million in 1964. The reward for United States Plywood's quality of products and outstanding service has been its growth to one of the top 200 industrial corporations in this country. Chemists, physicists and wood technologists—all working together in United States Plywood research laboratories—make it possible for more than 600 salesmen and sales engineers throughout this country and Canada to offer the best choice of structural and decorative materials available anywhere to architects, industrial users and builders.

Today the building industry represents a fantastic \$60 billion market—it will continue to grow. United States Plywood Corporation could help you to become a part of the growth with that burgeoning market.

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UNITED STATES PLYWOOD CORPORATION  
United States Plywood Building  
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