



PINETUM

1962

SD1
N6
1962

*Journal of the
School of Forestry
N. C. State College
Raleigh, N. C.*

The cover of this year's Pinetum is Weldwood Industrial Flexwood and is of genuine Flatcut Oak veneer permanently laminated to a special backing. A mechanical flexing process is used to make Flexwood an extremely pliable material.

Conventional Flexwood, available in more than forty domestic and imported woods of choice grain and figure, is backed with a material that more closely resembles fabric. It was developed by U. S. Plywood and is sold largely as a wall covering material that may be applied with equal facility to flat walls, curved areas or even wrapped around columns and pillars. A special flexing process is used to make it extremely pliable.

Recently, our Flexible Materials Division, in Louisville, Kentucky, has been bonding Industrial Flexwood to various substrates—aluminum and steel for example. This has proved of considerable interest to the automotive industry for interior decorative trim. Manufacturers of major home appliances have also used Industrial Flexwood to decorate door panels that may be easily matched to fine kitchen cabinet work. It is also being used on metal partitions in office buildings and has been employed in advanced designs for decorating metal office desk tops. Other industries are exploring uses for this interesting and versatile decorative material. For additional information write U. S. Plywood, 2921 S. Floyd St., Louisville, Kentucky.

UNITED STATES PLYWOOD CORPORATION
55 WEST 44th STREET
NEW YORK 36, N. Y.

The PINETUM

Annual Publication

of the

North Carolina State College

Forestry Club

• TABLE OF CONTENTS

Foreword	3
Dedication	4
Pinetum Staff	9
Faculty and Staff	10
Students	23
Activities	37
Articles	53
Random Shots	72
Alumni Section	79
Advertiser's Index	105

Foreword

With great pleasure, the Pinetum Staff wishes to present to you the 1962 Pinetum. The Staff has made a painstaking effort to sample the most important aspects that will help to keep alive all the fondest memories which occurred in the life of the forestry student. It will also serve as a contact with those who graduated before us. We trust that the graduating students will continue to support the Pinetum long after graduation.

We express our gratitude to all who gave their time and effort to make this annual possible and successful.

Our best wishes to all who read this issue.

Dedication



To Dr. A. J. Stamm, Professor of Wood Chemistry, and this year's winner of the Reuben B. Robertson Distinguished Professorship, for outstanding contribution to research in wood-liquid relationships, the 1962 Pinetum is sincerely dedicated.

CHAPMAN CHEMICALS

preserve the value of forest products

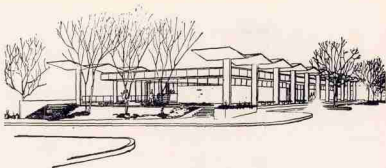
- PERMATOX 10-S** Control stain, mold and decay in hardwood or softwood lumber during air seasoning. Costs only a few cents per thousand board feet. Dip or spray.
- AMBRITE** Low-cost log spray reduces losses from degrade lumber due to damage by insects, stain or mold. Equally effective on hardwood and softwood logs. Permits safe stockpiling of logs.
- AMBROCID** 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.
- SÉALTITE** 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

CHAPMAN CHEMICAL COMPANY

Memphis 9, Tennessee



STUDENTS SUPPLY STORES

NORTH CAROLINA STATE COLLEGE

SERVING

STUDENTS, FACULTY AND STAFF

AND

FRIENDS OF THE COLLEGE

ON THE

CAMPUS FOR OVER FORTY-FIVE YEARS

AND

ALUMNI BY MAIL ON STATE COLLEGE

CLASS RINGS

CLASS RING REPAIRS AND

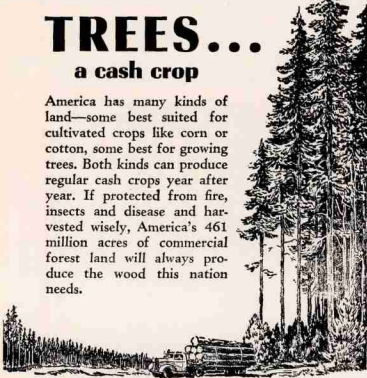
OTHER COLLEGE SEAL ITEMS.



TREES...

a cash crop

America has many kinds of land—some best suited for cultivated crops like corn or cotton, some best for growing trees. Both kinds can produce regular cash crops year after year. If protected from fire, insects and disease and harvested wisely, America's 461 million acres of commercial forest land will always produce the wood this nation needs.



Halifax PAPER COMPANY, INC.
ROANOKE RAPIDS, N. C.

"Creating Paper and Prosperity from Pines"

Pinetum Staff



G. Moore
Business Manager

C. Franklin
Asst. Editor

L. Simmons
Editor

B. Craig
Photographer

B. Ballard
Asst. Bus. Manager
and
Photographer

Dr. R. C. Bryant
Sec.-Treas.

Faculty and Staff



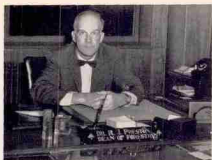
Forest Management

Forest Genetics

Wood Technology

Pulp and Paper Technology

Secretaries



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



LENTHALL WYMAN

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

DR. T. E. MAKI

Schenck Professor of Forest Management and Department Head
B.S., M.F., Ph.D., University of Minnesota





DR. R. C. BRYANT

Professor of Forest Management
B.S., M.F., Ph.D., Duke University

DR. W. D. MILLER

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



DR. J. O. LAMMI

Professor of Forest Economics
B.S., M.S., Ph.D., University of California



PETER J. DYSON

Instructor of Forest Economics
B. S., M.S.F., Montana State University





DR. B. J. ZOBEL

Professor of Forest Genetics
B.S., M.F., Ph.D., University
of California

DR. T. O. PERRY

Associate Professor of Forest
Genetics
B.S., M.A., Ph.D., Harvard
University



ROBERT L. McELWEE

Liaison Geneticist
B.S.F., M.S., North Carolina
State College



DR. A. C. BAREFOOT

Assistant Professor Of Forest
Utilization
B.S., M. Wood Tech., D. F.,
Duke University





C. E. LIBBY

Professor Emeritus of Pulp
and Paper Technology
B.S., ChE., University of
Maine

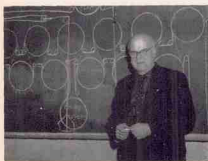
CHESTER J. LANDES

Assistant Professor of Pulp
and Paper Technology
B.S., Ch.E., Ohio State Uni-
versity



HILLIARD D. COOK

Assistant Professor of Pulp
and Paper Technology
B.S., Massachusetts Institute
Of Technology



ROBERT J. HITCHING

Associate Professor and Act-
ing Head of Pulp and Paper
Technology
B.S., M.F., Duke University





ROY M. CARTER

Professor of Wood Technology
B.S.F., M.S., Michigan State
College

DR. C. A. HART

Associate Professor of Wood
Technology
B.S., M.S., Ph.D., North Caro-
lina State College



RICHARD J. THOMAS

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

JAMES T. RICE

Instructor Wood Technology
B.S., M.S., North Carolina
State College





ROBERT C. GILMORE

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

DR. A. J. STAMM

Professor of Wood Chemistry
B.S., M.S., Ph.D., University of Wood Chemistry



DR. ARTHUR KELMAN

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

POVERTY is no disgrace to a man but it is confoundedly inconvenient.
—Sydney Smith



Dr. Eric L. Ellwood

Dr. Eric L. Ellwood, a world-renowned scientist, has been named professor and head of the Department of Wood Products in the School of Forestry at North Carolina State College.

The announcement of the appointment of Dr. Eric Louis Ellwood, a native of Melbourne, Australia, was made by Dr. Richard J. Preston, dean of the forestry school.

In his new position, Dr. Ellwood is responsible for the School of Forestry's undergraduate curricula in pulp and paper and wood technology, and all graduate programs in wood products. In addition, he is director of the Wood Products Laboratory and is responsible for the college's research in wood and paper. He is also in charge of the Wood Products Extension Program.

An authority in his field, Dr. Ellwood came to State College from the Forest Products Laboratory at the University of California at Berkeley. At the California university, he was a wood technologist and lecturer. His duties there also included research in timber physics, work in cooperative industrial problems, and graduate student instruction.

Prior to becoming a member of the University of California faculty in 1957, Dr. Ellwood held responsible positions in the field of forestry in Australia.

The new State College faculty member received his early education at Melbourne Boys High School. He attended the Victoria Forestry School, the University of Melbourne where he earned his B.S. and M.S. degrees in forestry, and Yale University where he received his Ph.D. degree.

He also took a post graduate course in aerial photogrammetry at the University of Melbourne and completed a course on weather forecasting at the Commonwealth Weather Bureau.

The distinguished scholar is a member of the Forest Products Research Society and the American Society of Wood Science and Technology.

Since 1960 he has been a consultant to the Pacific Northwest Hardwood Association. In 1953, Dr. Ellwood visited Europe where he inspected wood preserving processes.

The new head of the Department of Wood Products is married to the former Dorothy Esther Caine, and they have three children.



Dr. Maurice H. Farrier

Dr. Maurice H. Farrier was born in Washington County, Iowa, September 18, 1926. He received his B.S. and M.S. degrees from Iowa State College, 1948 and 1950 respectively. He obtained his Ph.D. degree from North Carolina State College.

Dr. Farrier has a varied experience in entomology. He served as assistant in the office of the state entomologists in Iowa for 2 years and as a graduate research assistant in the Medical Corps of the U. S. Army for two years. Dr. Farrier is also a specialist on the classification of mites.

Dr. Farrier is a member of the Entomological Society of America, Society of Systematic Zoologists, the American Association of Advancement of Science, the Iowa Academy of Science, the North Carolina Academy of Science, Sigma Xi, and Gamma Sigma Delta.

Dr. Farrier, Assistant Professor of Entomology, will teach the courses and conduct research in Forest Insects.

WHAT LUCK MEANS—Luck means the hardships and privations which you have not hesitated to endure; the long nights you have devoted to work. Luck means the appointments you have never failed to keep; the trains you have never failed to catch.

—Max O'Rell



Mrs. Frances Liles

Mrs. Sarah Pearson

Miss Hazel Adams

BUSINESS OFFICE



Mrs. Dorothy Honeycutt
PULP & PAPER



Miss Anne Law
GENETICS



Miss Eloise Payne
WOOD PRODUCTS



Miss Cicely Brown

Mrs. Dot Booker

GENETICS LABORATORY



Mrs. Elga Filton

GENETICS

SMITH INDIAN FIRE PUMPS



"Fire fighting authorities call the INDIAN a one man fire department" and tell us "it is worth its weight in gold".

D. B. SMITH & COMPANY

Incorporated • Established 1888

UTICA 2, NEW YORK



No. 777
Lopping Shear

BARTLETT MEYLAN SAW

CUTS PRUNING TIME UP TO 25%!

The M-414 is especially designed for pruning lower branches on pine and spruce. It enables a man of average height to prune 9½ ft. above ground without a ladder, saving up to 25 per cent in time. Curved 16-in. blade made of special grade heavy tool steel with 7 teeth per inch. Specially tapered 36-in. handle lessens fatigue.

M-414, 16" blade, \$12.00

M-414, 18" blade, \$12.50

Delivered in U.S.A.



No. 114-B Utility Saw

for treating all pruning wounds. Pure Egyptian black asphalt base protects against fungi. Will not crack, blister or freeze.



	TREE SURGERY SUPPLIES
	BARTLETT MFG. CO. 3074E GRAND BLVD. DETROIT, MICH.



NEW HOMELITE

707
D



Get
Money-makin'
Power!

- only 19 pounds, less bar and chain
- fells trees up to 5 feet in diameter

HOMELITE

P. O. Box 10621

2640 Freedom Drive

Charlotte, N. C.

**For More Work
at Low Wages-**

Hire Reddy!
CAROLINA
POWER & LIGHT
COMPANY
*An investor-owned, tax paying,
public utility company*

Free Enterprise Keystone of Progress

The free citizen, working for his own gain can, in the long run, accomplish more than the subsidized individual.

Private forestry, free to work out a destiny in co-operation with government, is meeting the challenge to provide raw materials and recreation for our nation.

HIWASSEE LAND COMPANY

Calhoun

Tennessee

*Growing and Buying Pulpwood for
Bowaters Southern Paper Corporation*

SUCCESS

in your professional life

comes from your manifestation of talent, opportunity and tools.

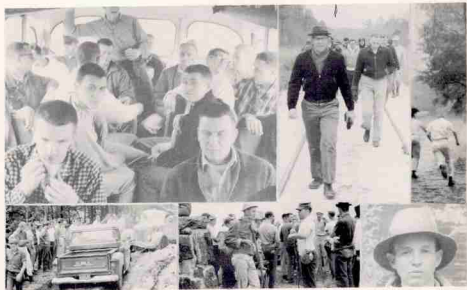
Forestry Suppliers is always ready to help you with the latest and best in tools, equipment, and techniques.

Call, write, wire or come by

FORESTRY SUPPLIERS, INC.

960 South West Street
Box 8397 - Battlefield Station
Jackson, Mississippi

Students



Seniors

Freshmen

Sophomores

Juniors

Graduates

Seniors



JOEL D. ARTMAN
Norris, Tennessee
Forest Management
Forestry Club; Society
of American Foresters;
Xi Sigma Pi; Phi Kap-
pa Phi.



GARY B. BRIDGERS
Conway, N. C.
Pulp & Paper Tech.
Fourdrinier Society,
President; Xi Sigma Pi.



NEIL D. BAKER
Rowland, N. C.
Forest Management



ROY O. BROGDEN
Garner, N. C.
Forest Management
Forestry Club; SAF;
Intramurals.



CHARLES S. BENTLEY
Richmond, Va.
Pulp & Paper Tech.
Alpha Zeta; Blue Key;
Fourdrinier Society;
Toastrmasters Club;
Westminster Fellow-
ship; Intramurals; State
College YMCA, Presi-
dent.



ROBERT P. BULLARD
Evergreen, N. C.
Forest Management
Forestry Club; SAF.

ROBERT M. BURGESS
 Burlington, N. C.
 Forest Management
 Student Government
 Senator; Alpha Gam-
 ma Rho Fraternity;
 Forestry Club; Inter-
 fraternity Council Rep-
 resentative. SAF.



SAMUEL R. CALVIN
 Hollidaysburg, Pa.
 Forest Management
 Forestry Club; Paul
 Smith's Forestry Club;
 Paul Smith's Varsity
 Club; Golf team.



ROY M. BUTLER, Jr.
 Clarkton, N. C.
 Forest Management
 SAF.



H. STARKE CAUTION
 Richmond, Va.
 Pulp & Paper Tech.
 Westminster Fellow-
 ship; Program Chair-
 man, 1960-61; Vice-
 Pres. Stewardship 1961-
 62; Fourdrinier Society;
 Xi Sigma Pi; Pulp &
 Paper Foundation
 Scholarship; V. P. I.
 Scholarship.



JAMES T. BYRD, Jr.
 Raleigh, N. C.
 Forest Management
 SAF; Forestry Club.



JAMES L. CHANDLER,
 JR.
 Ruffin, N. C.
 Forest Management
 SAF; Forestry Club;
 Pershing Riflea.



JAMES D. CALDWELL
 Clyde, N. C.
 Forest Management
 Intramural Sports.



LARRY P. CHAPMAN
 Winston-Salem, N. C.
 Pulp & Paper Tech.
 Fourdrinier Society; Xi
 Sigma Pi; Intramural
 basketball and golf.





BUDDY W. CONNOR
Kings Mountain, N. C.
Forest Management
Forestry Club; Dorm
Vice President; Apollo
Club; I. D. C.



KENNETH L. DAVIS
Asheville, N. C.
Forest Management
Alpha Zeta; Forestry
Club; Football; Basket-
ball; Alpha Beta Gam-
ma; SAF; Intramural
Basketball.



CHARLES E. CORDELL
Asheville, N. C.
Forest Management
SAF; Veteran's Club;
Forestry Club.



HUNG T. DUONG
Saigon, Vietnam
Wood Technology
F. P. R. S.; The Asian
Student Magazine, The
Bell of Vietnam Maga-
zine; The Vietnamese
Student's Association
in America, Phi Kappa
Phi.



J. ROY COVINGTON
Lumberton, N. C.
Forest Management
Forestry Club — V.
Pres., Prog. Chmn.;
SAFC — Vice Pres.;
Intramural sports.



THOMAS ECK
Savannah, Ga.
Pulp & Paper Tech.
Band; Student Govern-
ment; Forestry Club;
Fourdrinier Society;
Alpha Zeta; Xi Sigma
Pi; Phi Eta Sigma; 39
& 3; Blue Key; Golden
Chain; CUSC; Theta
Chi; Freshman Group
Leader.



WILLIAM S. CRAIG
Asheville, N. C.
Forest Management
Forestry Club — Sarg-
ent-at-Arms, Program
Chairman, President;
Alpha Zeta; SAF.



JAMES P. ECONOMOU
Dayton, Ohio
Wood Technology
Forest Products Re-
search Society; Furni-
ture Club; Veteran's
Club.

CLARENCE S. FINCH
Henderson, N. C.
Forest Management
Golf team; Intramural
Golf; Forestry Club;
Student Advisor; SAF;
Friends of the College.



WILLIAM H. GOODMAN
Raleigh, N. C.
Forest Management



R. FRED FOSTER
N. Wilkesboro, N. C.
Forest Management
Forestry Club; Xi Sig-
ma PL, Secretary-Fin-
ancial Agent.



WILLIAM R. HARDEN,
Jr.
Plymouth, N. C.
Pulp & Paper Tech.
Fourdrinier Society;
Monogram Club; Inter-
collegiate Football;
Track; Intramurals.



JAMES H. FREADY
Canton, N. C.
Pulp & Paper Tech.
Fourdrinier Society.



PAUL HARDEN
Canton, N. C.
Pulp & Paper Tech.
Intramural Sports;
Fourdrinier Society.



WILLIAM D. FREULER
Halifax, N. C.
Pulp & Paper Tech.
Fourdrinier Society,
Vice-President; Pro-
gram Chairman; Intra-
mural Sports.



JACK L. HAWKINS
Jacksonville, N. C.
Pulp & Paper Tech.
FarmHouse Fraternity;
Fourdrinier Society.





C. ALEXANDER HAYS,
Jr.
Ahoskie, N. C.
Forest Management
SAF; Forestry Club.



H. SCOTT JENKINS
Forest City, N. C.
Pulp & Paper Tech.
Fourdrinier Society,
Treasurer.

Not Pictured:
JAMES M. HAYS
Hamilton, Ohio
Pulp & Paper Tech.
Fourdrinier Society.



JOSEPH T. JOHNSTON
Littleton, N. C.
Forest Management
Intramurals: softball,
volleyball.



GEORGE C. HENDERSON
Manteo, N. C.
Forest Management
SAF.



ALAN JUBENVILLE
Suffolk, Va.
Forest Management
Leopold Wildlife Club;
N. C. Collegiate Academy
of Science; Advanced
Army R. O. T. C. (Flight
Program); Intramural
Basketball.



THOMAS M. HUFFMAN
Salisbury, N. C.
Forest Management
Y. D. C.; Veteran's
Club; Forestry Club.



BOHUN B. KINLOCH JR.
Charleston, S. C.
Forest Management
Forestry Club; SAF;
Xi Sigma Pi.

ARTHUR L. LATIMER,
III

Suffolk, Va.

Pulp & Paper Tech.
Sigma Nu; Blue Key;
Class Treasurer, Junior
& Senior years; IFC,
Vice-President, Social
Chairman, Activities
Committee; Social
Functions Committee;
Ring Committee; Ori-
entation Group Leader;
Freshman Honorary
Fraternity.



EDGAR L. LITTLE
Durham, N. C.
Forest Management
Forestry Club.



GERALD F. LAUGHING-
HOUSE

Vanceboro, N. C.

Wood Technology
Forest Products Re-
search Society; Xi Sig-
ma Pi.



FRED L. LIVERMAN
Ahoskie, N. C.
Forest Management
SAF; Forestry Club,
President, Vice - Presi-
dent, Secretary; YMCA;
Y. D. C.; Conclave; In-
tramurals; Freshman
Counseling Program.



PETER D. LEAVITT
Plymouth, N. C.
Forest Management
SAF.



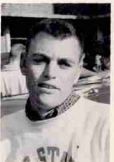
ARTHUR R. MAHONEY,
Jr.
Kenbridge, Va.
Wood Technology and
Forest Management
Forestry Club; SAF;
F. P. R. S.; Kappa Al-
pha; Intramurals.



RICHARD B. LINGMAN
New Bern, N. C.
Forest Management



BOB MCCrackEN
Clyde, N. C.
Forest Management
SAF; Intramurals.





ED L. McMULLAN, II
Brewton, Ala.
Forest Management;
Forestry Club; SAF;
Kappa Alpha.



JUAN E. MUNOZ
Aquadilla, Puerto Rico
Forest Management



THOMAS MILLER
Asheville, N. C.
Forest Management
Xi Sigma Pi; SAF.



J. SHERWIN ODUM
Hubert, N. C.
Forest Management
Y. M. C. A.; Oasis So-
ciety; Forestry Club;
SAF; Xi Sigma Pi.



CARL F. MILLS
Chinquapin, N. C.
Pulp & Paper Tech.
Fourdrinier Society.



W. LARRY PORTER
Vaughan, N. C.
Forest Management
SAF; Student Govern-
ment; School Traffic
Committee; Orientation
Leader; Ring Commit-
tee, Sigma Nu.



J. GRAHAM MOORE
Raeford, N. C.
Forest Management
Forestry Club; Alpha
Zeta; Business Man-
ager, *Pinetum*; Fore-
stry Club, Secretary.



JAMES E. REID
Mt. Sidney, Va.
Forest Management
Xi Sigma Pi; Forestry
Club; SAF; American
Forestry Association.

JAMES A. ROBBINS
Holdens Beach, N. C.
Forest Management
SAF; Forestry Club.



ROBERT L. SMITH
Fairport, Va.
Forest Management
Forestry Club; SAF.



ALVIN Y. ROBERTS
Cherryville, N. C.
Forest Management
Xi Sigma Pi; Forestry
Club; SAF; Veteran's
Association.



WILLIAM E. SMITH
Jacksonville, Fla.
Pulp & Paper Tech.
TAPPI; Paper Founda-
tion Scholarship; Four-
drinier Society.



LLOYD C. SIMMONS
Blakeslee, Pa.
Forest Management
Student Counselor;
SAF; Forestry Club;
Editor, *Pinetum*.



MILTON F. SPAIN
Waverly, Va.
Pulp & Paper Tech.
Intramural Basketball;
Fourdrinier Society;
Scabbard and Blade.



JOHN A. SMITH
Bowden, N. C.
Forest Management
Advanced R. O. T. C.;
Forestry Club, Secre-
tary.



JAMES W. SPOTTS
Atlanta, Ga.
Forest Management
N. C. State Men's Glee
Club; Canterbury Club;
Alpha Phi Omega;
Campus Chest Drive;
SAF.





ARTHUR W. STALLINGS
Raleigh, N. C.
Forest Management



JOHN H. TURNER
Raleigh, N. C.
Forest Management
Xi Sigma Pi; Forestry
Club; SAF.



O. DAVID THARPE, JR.
Statesville, N. C.
Pulp & Paper Tech.
Sigma Nu; IFC; Fresh-
man and Varsity Track
Team; Fourdrinier So-
ciety.



JOSEPH V. VATTA
N. Parur Kerala, India
Forest Management
SAF; Forestry Club.



JOHN A. TOMS
Forest City, N. C.
Pulp & Paper Tech.
Student Government —
Junior Senator; Phi
Eta Sigma; Xi Sigma
Pi; Crown — Zeller-
bach Award; Gamma
Delta Sigma Award;
Fourdrinier Society;
Phi Kappa Phi.



HOANG VU
Saigon, Viet Nam
Forest Management
Xi Sigma Pi; Interna-
tional Clubs; SAF.



JAMES H. TURNER, JR.
Dunn Loring, Va.
Forest Management
SAF; Alpha Phi Ome-
ga; N. C. State Men's
Glee Club, President;
Forestry Club.



JACK WALTERS, JR.
Whiteville, N. C.
Forest Management
SAF; Intercollegiate
Track; Monogram Club;
Forestry Club.



DONALD H. WEILER
Raleigh, N. C.
Forest Management
Forestry Club; SAF.



DWAIN D. WORKMAN
Chillicothe, Ohio
Forest Management
SAF; Forestry Club; In-
tramurals; Golf Team;



JOHN M. YOUNG
Asheville, N. C.
Forest Management
Forestry Club; SAF.

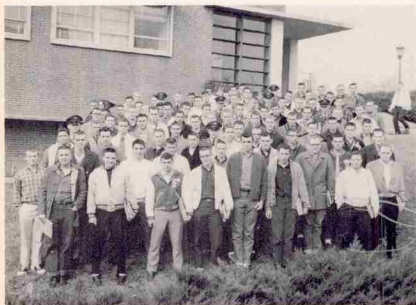
Not Pictured:

MARSHALL W. GORE
Tabor City, N. C.
Forest Management

PROUD WORDS—'Tis sweet to hear "I love you"
Beneath a giggling moon;
'Tis fun to hear "You dance well"
To a lilting, swinging tune;
'Tis great to be proposed to
And whisper low, "I do;"
But the sweetest words in all the world,
"I've got a job for you."

—Margaret Deeney

Freshmen



Sophomores



Juniors



Graduates



CHAMPION SETS THE PACE IN PAPERMAKING

**North Carolina State College
Sets The Pace In
Southern Forestry Education**

*Congratulations to the students, faculty and alumni
of the outstanding
North Carolina State College School of Forestry*

**CHAMPION PAPERS
INC.**



CAROLINA DIVISION CANTON, N. C.

Activities



Forestry Club

Xi Sigma Pi

The Fourdrinier Society

Forest Products Research Society

Summer Camp

The Rolleo

Scholarships and Awards

Extension Forestry



The Forestry Club

by

FRED LIVERMAN

Officers—1961-62

President—Fred Liverman

Vice President—Chandler Eakes

Secretary—John Smith

Treasurer—Blake Ballard

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

The North Carolina State College Forestry Club has continued its wide selection of activities under the generous advisorship of both Dr. J. O. Lammi and Dr. R. C. Bryant. Club attendance and membership has tended to steadily climb during this school year.

The club was represented at the North Carolina State Fair with a booth containing a miniature sawmill. The next exciting activity sponsored by the club was the annual Rolleo which was held at the Hill Forest. This year, many club members plan to travel to College Heights, Arkansas, for active participation in the Fourth Southern Annual Conclave. Plans are being prepared for club participation in the Logger's Brawl. The club calendar also reveals a good interest in a booth for College Union Carnival Night.

The programs during this school year have been of exceptionally high quality. Dr. J. O. Lammi awarded the Rolleo prizes during the first club program. Dr. Bruce Zobel discussed a seed collection trip that led him deep into the roughs of Mexico. Bud Sailer then presented a program concerning cytogenetics. Mr. J. P. Harper represented International Paper Company, and illustrated with a film on experimental equipment that will surely reach a practical level in the near future. Mr. Tom Harris, a N. C. State graduate, represented the Halifax Paper Company. Mr. Harris explained the organizational structure of his company, and explained the duties of a forester working for the pulp and paper industry. Dr. Ralph Bryant discussed a different hunting system that now exists in Germany. To round out this array of entertainment, student programs consisted of color slides of Alaskan and New Zealand forestry.



Xi Sigma Pi Mu Chapter—1961-62

by

RONALD FRED FOSTER

Officers—1961-62

Forester—Alvin Y. Roberts

Secretary-Fiscal Agent—Ronald F. Foster

Associate Forester—Gary B. Bridgers

Ranger—Larry P. Chapman

Executive Council Representative—Dr. R. C. Bryant

Xi Sigma Pi, National Forestry Honor Fraternity, was founded on November 24, 1908, at the University of Washington. Mu Chapter of Xi Sigma Pi was installed at North Carolina State College on April 20, 1940. Since the time of its installation, Mu Chapter has undertaken various projects for the general aid of forestry students.

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

The fraternity sponsors public lectures by widely known individuals working in forestry or allied professions.

Xi Sigma Pi proposes to honor the student who ranks high scholastically and who demonstrates exceptional ability in the forestry profession.



The Fourdrinier Society

by

JERRY L. SELF

Welcome to a Fourdrinier Society meeting.

This society is interested in promoting educational and social activities within the Pulp and Paper Technology curriculum on this campus.

The first meetings were organizational meetings at which the officers were elected. The elected officers are as follows: President—Gary Bridgers, Vice-President—Tom Brown, Program Chairman—Bill Freuler, Treasurer—Scott Jenkins, and Secretary—Jerry Self. Professors H. D. Cook and R. G. Hitchings were selected as faculty advisors.

The society has had some very fine programs this year. Mr. Joe Baxter, Jr., Director of Research and Development, for Black-Clawson, gave a talk on "The Many Facets of Black-Clawson." The Bowater Organization furnished a series of films on the operations and developments of that company. The program committee also presented a film on Hercules Powder Company.

The society has a party planned for April. This party and other activities will take place during the rest of the year. The members of the Fourdrinier Society will strive to make it an even more effective organization within the Pulp and Paper Department and School of Forestry.



Forest Products Research Society

by

RANDY MAHANEY

Officers—1961-62

President—Jim Economou

Vice President—Norman Anderson

Secretary—Randy Mahaney

Treasurer—Bill Knight

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

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

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

1961 Summer Camp

by

J. CHANDLER EAKES, JR.

The 3rd of June had finally arrived; that long awaited date marked the beginning of a glorious 10-week vacation for all the sophomores. After the financial matters had been settled with the instigators of this "bargain vacation," we left Raleigh and headed for our pleasure resort headquarters as fast as we could go. After a short drive, we reached our destination—Hill Forest Pleasure Camp, located on the banks of the scenic Flat River.

Our first day was spent getting everything shipshape for our 7-week stay there. After everyone had stopped fighting over the "good" bunks, and got their junk moved into the spacious accommodations, we divided into clean-up crews and wholeheartedly began our assigned tasks. Our enthusiasm lasted about as long as it took us to find out just how dirty the place really was. At any rate, we finally got everything in order and settled down for 7 pleasure filled weeks.

However, we soon noticed things were going to be a little different from what we had anticipated. The main reason was the presence of a firebug by the name of Dr. Bryant. He was accompanied by a rather small fellow who could, and usually did, walk about 30 miles an hour, and gave lectures about as fast. It seems these 2 fellows wanted us to remember everything they told us (just like back at school). Now this was against everybody's point of view, and we soon became aware of other less pleasing characteristics of Hill Forest. The entire place is inhabited by nothing but redbugs, mosquitoes, gnats, and copperhead snakes. Nothing but Virginia pine and poison ivy grow worth a damn, and the poison ivy is about as much good as the Virginia pine. One of our biggest problems was water—we had too much of the stuff. It rained at least 3 days a week and sometimes we got rain 8 or 9 times a week. We didn't mind the rain too awful much though, because usually when it rained we were allowed to go to the classroom and listen to Dr. Bryant tell us stories, (and stories they were, too)!

A week or two after we got there this man came out to camp and got everybody on a bug catching kick. We figured he was trying to promote an outdoor hobby, and that he must have thought we would be interested since we, as foresters, are all true outdoorsmen. He must have been right—I saw some of the boys that were at camp trying to buy bugs during the fall semester. He must have really promoted some interest out there!

One afternoon after supper we noticed Dr. Bryant sitting on the prof's cabin steps alone. He had a strange expression on his face and a glitter in his eye. As he held the match to light his smoke, he let the tiny flame linger for a moment or two, and gazed at it as though he were in a trance. We knew he was getting set to burn hell out of something! Not more than 15 minutes later we were in the woods trying our damndest to set the whole place on fire. That fire never did break away from us. Tried a few nights later again—still no luck. Even when we had the big burn on the clear-cut area, nothing happened. Doc. Bryant kept walking around mumbling "Hell, ain't nothing like the last one; just ain't enough wind up yet."

The entire 7 weeks at Hill Forest weren't a flop. Someone discovered The Lodge! That sure was a fine place—everybody that went came back happy, others came back more than happy, while still others came back in worse condition than that.

The food was great, if you happened to think so. Not that John wasn't a good cook, but you just had to have an asbestos mouth to be able to eat everything he fixed. No sir, John didn't leave anything out of what he fixed! We did get plenty to eat though, and as hungry as we usually were it tasted pretty good.

We did accomplish a few things while at Hill Forest. Dr. Miller taught us the name of every living plant on the entire place, and under Dr. Bryant we became experts at cruising timber and making topo maps, (in the rain too, dammit). All in all, it was a good experience for each of us—everyone's concept of forestry was widened, (in one way or another).

At the end of 7 weeks we packed up and headed for the mountains. Dr. Bryant must have figured he wouldn't have been able to burn anything up there, so Dr. Perry took his place.

The 3 weeks in the mountains were undoubtedly the most enjoyable part of summer camp. The biggest advantage the mountains had over Hill Forest was the fact there were girls in the mountains. One might have raised the question of whether we were studying forestry or girls. However, there was no question in anyone's mind as to which of the 2 subjects received the most attention.

Dr. Perry wanted everybody to get their exercise, so he kept taking us on 5 mile hikes. On one of these expeditions, Dr. Perry thought he'd try running up a mountain instead of walking. No one wanted to run along with him, but there just so happened to be a few of the boys ahead of him, and so he had some company on the walk back down.

Finally, those 3 weeks at Wayah Depot were gone, ending our 1961 summer camp. It was all quite an experience for each of us; an experience most of us will never forget.

AS A CURE for worrying, work is better than whiskey.

—Thomas A. Edison

PAY ENVELOPE—Folks who never do any more than they get paid for, never get paid for any more than they do.

—Elbert Hubbard

The 1961 Rolleo

by

LLOYD SIMMONS

At 7:00 a.m. on Saturday, October 21, 1961, the sun was shining brightly. It looked like an ideal day to hold the rolleo events. About 7:30 a.m. every contestant and spectator was on his way to the proving grounds on the Hill Forest. But lo-and-behold! Before the first event got underway the rains began to fall.

The crowd of approximately 75 gathered in a tight little group behind the chow hall in the wood-chopping area to watch the first event. A pair of seniors, Conner and Odum, started the crosscut biting into the cant in fine style and finished just as great in 1 minute, 26 seconds to cop first place in the event. The next best (2 minutes, 3 seconds) by Blanchard and Eakes took second place for the juniors; and the sophomores, Moss and Carey, came in third. The freshmen, King and Irby, try as they may, could only muster a fourth place which netted them no points for the event.

The seniors, with the first event up their sleeve, knew that this was their day. Chandler came striding up to the cant with his bow saw singing for blood. Dr. Lammi, who, by the way, did an excellent job of officiating the events, yelled Go! Chandler's saw cut through the first half of the log in record-breaking time but then something happened—he just plumb petered out. The first thought of the crowd was that Chandler was out late the night before or that he smoked too much, but someone in the crowd gave the answer when he yelled, "There's a good example of a married student". Even though his heart was broken, Chandler continued plugging and finished in 5 minutes, 10 seconds.

The juniors "saw" their chance and took it by sending Manning in to do the job in 2 minutes, 11 seconds for a first. Sophomore Zobel and freshman Brookes took second and third, respectively.

The next event could have undoubtedly been handled nicely by Lizzie Borden—the axe throw. Much like Lizzie, although not of the same sex, Coville made headlines for the juniors by killing first place. Connor, a senior, and Elkin, a freshman, tied for second place honors. Carey got the forty whacks.

The knife throw was handled keenly by Artman, a redman in the senior class, but he was tied by a white man (Elkin) of the freshman class for first place honors. Srago and Moss came in third and fourth respectively.

The chopping contest was a test of endurance and ability to side-step a glancing axe head. Craig, who showed that a single man had far more stamina and endurance than the aforementioned married man, took first place by chopping through the cant in 6 minutes, 41 seconds. Eakes and Moss took second and third place respectively.

The chain throwing contest was a battle between senior Craig and junior Franklin. Halfway down the road, Bill got tangled in his chain but managed to break loose and win with a time of 1 minute, 20 seconds.

The sophomores and freshmen competed in the rifle shooting contest

since they had no experience in chain throwing. Showing excellent form, Jeffries shot his way to a first for the freshmen.

The half-time events caught the enthusiasm of everybody present. First, a delicious lunch of barbeque, hushpuppies, potato salad, and pepsis was served. When the meal was sufficiently consumed and digested, the group gathered near the main barracks where Dr. Hofmann's portrait was presented to the college. (Picture and write-up found in alumni section). Artman and Blanchard were presented with the Homelite scholarship, and Zobel and Self were honored for attaining a 3.925 average at the end of their freshman year.

After the presentations, and in spite of the rain, the events went on. Evidently somebody had spiked the senior's pepsis since in the remaining nine events they only managed two first places which were bait casting by Liverman, and the tug of war. I've got a sneaking suspicion that the juniors did the spiking since they managed four firsts. They were: log rolling, Blanchard and Lewis; fire fighting, Kohut; DBH estimating, Thomas; and volley ball. Mercer had a field day in the afternoon by taking firsts for the sophomores in both pole climbing and tobacco spitting. Bartelt took a third first for the sophomores in the pole climb.

The final talley gave the juniors a first place in the rolleo with 44 points, the seniors a second with 38 points, and the freshmen and sophomores a tie with 27 points.

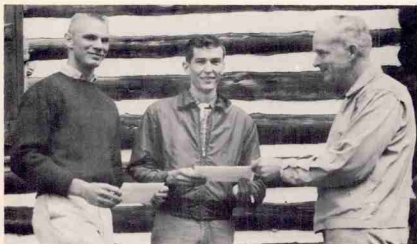
The initiation of new members brought an end to the festivities.



LIFE, like war, is a series of mistakes, and he is not the best Christian nor the best general who makes the fewest mistakes. Poor mediocrity may secure that, but he is best who wins the most splendid victories by the retrieval of mistakes.

—Robertson

Scholarships and Awards



Homelite Scholarship

HAROLD BLANCHARD—JOEL ARTMAN

Scholarships and awards play a tremendous role in helping the college student meet his financial obligation. During the 1961-62 school year, 84 School of Forestry students received approximately \$45,700 from scholarships and awards. The editor, on behalf of the recipients, extends a many fold thanks to the companies, foundations, organizations, and individuals who make the scholarships and awards possible.

PULP AND PAPER FOUNDATION SCHOLARSHIP

Altman, Laurice G., Jr.
Amick, William Michael
Baird, Bennett Ray
Bentley, Charles Scott
Biggar, Francis Bradley
Blevins, Ronald Lee
Bowling, Bernard Philip
Bridgers, Gary Bryant
Broughton, Royall M., Jr.
Calloway, James Lyle
Cauthorn, Hurley Starke
Clark, Ernest Calvin, Jr.
Donald, Joe Keenan
Duckworth, Charles J.
Dunning, Charles Everett
Eck, Thomas Herbert

Ford, Michael James
Groce, Augustus B., Jr.
Guerard, Edward P. Jr.
Harrison, Robert Clarke
Harriss, Herbert Lynch
Hart, Ladson Frederick
Langley, William H.
Leary, Jesse Herbert
Lindsey, Alfred W.
Major, Eugene Hartwell
Massengill, Ralph Erwin
Oakley, George David
Orr, Thomas Earl
Owenby, Furman Douglas
Parham, William C., III
Parker, Robert S.

Prescott, Jack Brinkley
Pritchard, John Stanley
Puckett, Ralph Keith
Quesinberry, Garnett D.
Robertson, Gerald Wayne
Sanders, Harry Thomas
Sawyer, Thomas Wayne
Self, Jerry Lee
Shotwell, James F., Jr.
Smith, William Edmond

Smoak, Charles Roland
South, William David
Stoudemire, Stewart McB.
Stroup, Thomas Frank
Taylor, Andrew J., Jr.
Tickel, William H., Jr.
Uptegrove, Raymond R.
Webb, Joseph Thomas
Williams, James Varnado

CONTINENTAL CAN COMPANY SCHOLARSHIP

Baldwin, George William	Hamrick, James Lewis
Blanchard, Harold C.	Land, Samuel B., Jr.
Franklin, Edward C.	Roberts, Alvin Yates
Gregory, Jimmy D.	Tice, William Eddie
Zobel, Donald Bruce	

U. R. P. NATIONAL SCIENCE FOUNDATION GRANT

Baldwin, George William
Best, Elwood Vance
Dunning, Charles Everett
Hamrick, James Lewis
Laughinghouse, Gerald F.
Miller, Thomas
Zobel, Donald Bruce

CROWN-ZELLERBACH FOUNDATION SCHOLARSHIP

Bridgers, Gary B.
Chapman, Larry P.
Toms, John Amos

BILTMORE WORK SCHOLARSHIP

Ballard, Gerald B.
Floyd, Burton R.
Reid, James E.

INDIVIDUAL SCHOLARSHIPS

Weyerhaeuser Foundation—Best, Elwood Vance
Garner Scholarship—Blaine, Charles T.
French Broad River Garden Club Foundation, Inc.—Cordell, Charles E.
George K. Slocum—Eakes, James C., Jr.
Kentucky Council on Higher Education—Howell, Jerry F., Jr.
General Scholarship—Hudson, David Rex
4-H Smith-Douglass—Huneycutt, Joel Andrew
Darlington Veneer—Laughinghouse, Gerald F.



Extension Forestry

by

JOHN GRAY

In Charge, Forestry Extension

Since the 1961 "Pinetum" was published, great strides have been made in the conquest of outer space. As a result of numerous sub-orbital and orbital flights, the name of Gagurin, Shepherd, Grissom and Glenn have become household words on everyone's lips.

Few people were on hand, however, when Ed Jones (B.S., '51) and John Gray (both pale and haggard but still smiling) returned from outer space on September 1, 1961. Jones brought back from Louisiana a Master of Science in botany in the field of bottom land hardwood management, wrenched from Louisiana Polytechnic Institute at Ruston.

Gray brought back no written evidence of having been anywhere. From his somewhat incoherent babblings, onlookers were able to gather that he found living creatures on the planet Duke and that these had somehow initiated him into the mysteries of graduate economics and statistics. According to him, he is still considered only a pledge for their doctorate order until he proves that he can write something original in their language.

Shortly after these landings, two more intrepid pioneers were launched into the rarified atmosphere of graduate study. John Gilliam was pointed towards the University of Tennessee and a Master's degree in horticulture in the field of Christmas tree production. J. C. Jones was aimed at Duke and told to bring back a Master's degree in watershed management.

Initial communications, established with both these astronauts shortly after they landed, indicated that they were amazed to find so many *female*

inhabitants on these two academic planets and that they were having some difficulty breathing as a result. The two men are adjusting nicely, however, and have stoutly refused all offers of assistance.

All fuel for these flights is provided by the Richardson Foundation of Greensboro, North Carolina.

So much for our space effort this year; now let's get down to earth.

We are proud to report that the hard work of Bill Keppler, Dixie Hobbs (B.S., '38), Bill Huxster (B.S., '55), plus the part-time services of Pete Dyson in Wood Products Extension is beginning to receive substantial recognition and cooperation from the wood-processing industry. Leaders from the lumber and veneer segments of the industry who attended a 2½-day meeting of our Wood Products Extension Program Development Contract Advisory Committee (how's that for a title!) stated that the individual case assistance they had received through this program had meant more to them than any other educational assistance in the history of their businesses. They felt that the program was practical, was getting on-the-ground results and was beginning to stir the interest of many members of the industry.

Examples of the major accomplishments of the Wood Products Extension Section this past year include:

Initiating veneer-mill case studies to serve as demonstrations for improving production efficiency, materials handling, labor-efficiency costs and quality control in the veneer industry.

Holding key-man critiques for key personnel in case-study sawmills and veneer mills to explain results of operations analysis studies and improve efficiency and employee working relations.

In cooperation with the Eastern Carolina Lumbermen's Association holding an "island meeting" to present results of a case study which led to greatly improved production efficiency at a member's mill.

In cooperation with the Eastern Carolina Lumbermen's Association, planning and conducting a three-day short course on saw filling attended by 28 mill managers and filers.

Preparing and publishing "Veneer Drying Times for High Temperature Continuous Dryers" based on research by Dr. C. A. Hart of the School of Forestry.

Developing data and publishing "Estimated Production Rates and Board-Thickness Variations for the 24-Inch Sash Gang Saw."

Publishing "Three Case Studies of Lumber Manufacturing Firms in North Carolina"—a procedural guide for Extension workers in other states. This was based on work done by our Wood Products Extension Section.

Testing and preparing a mimeograph, "Applying Queuing Theory Techniques Developed by Canadian Research to Improving Lumber Grading Chain Efficiency."

Based on this Section's experience, preparing and publishing "Problem Studies in Quality Control, Costs, Labor Efficiency, Materials Handling and Plant Layout at Sawmills and Veneer Plants."

Preparing and publishing a folder, "Good Business," as a procedural guide to landowners and timber buyers in timber sales transactions.

Last, but by no means least, this Section was fortunate in securing the services of Mrs. Billie Thomas, who took over the duties of Section secretary on December 1, 1961.

In Forest Management Extension, a new program in bottom-land hardwood management was initiated with emphasis on the Roanoke River valley area of the state. Here, all major holdings of the timber types involved have been mapped and individual contacts made with the owners. In cooperation with the U. S. Weather Bureau and radio stations in the area, flood-stage-prediction reports are now being carried twice a week for the benefit of loggers in the area. An informal management problem analysis is underway.

Efforts to promote and develop a large-scale Christmas tree production program with Fraser fir in the mountain counties were intensified. A major bulletin, "Christmas Trees in North Carolina," was prepared and is now being printed. A mimeograph on Christmas tree insects and diseases was prepared. Field test demonstration areas on chemical weed control and the use of fertilizers in Fraser fir production were established in cooperation with School of Forestry research staff members.

Greater emphasis was placed on reaching and influencing landowners in the 100-to-5000-acre size-class category. An illustrated talk on "Investment Aspects of Timber Growing" was prepared. Two field days were planned and held in Chatham and Wake Counties featuring costs and returns from forest land development under various conditions.

Finally, not to be outdone by the Russians, both Sections cooperated in the preparation of a five-year plan for Extension Forestry. This was part of a total plan prepared by the North Carolina State College Extension Service. Forest management features include greater program emphasis on landowners in the medium size of ownership category plus intensive educational efforts on quality hardwood production, Christmas tree production in the mountains, hardwood marketing and the business aspects of forest management.

The plan calls for the Wood Products Section to concentrate on the lumber, veneer, hardwood-dimension and logging sectors of the industry. Educational efforts will focus on helping the industry reduce costs and/or increase revenues through greater production efficiency, use of better business methods, product improvement and development, and specific efforts in consumer education and market promotion.

Total expected dollar impact of both programs is estimated at \$86,000,000 annually by 1967.

THE MAN without purpose is like a ship without a rudder—a waif, a nothing, a no man. Have a purpose in life, and, having it, throw such strength of mind and muscle into your work as God has given you.

—Carlyle

ALL OTHER KNOWLEDGE is hurtful to him who has not honesty and good nature.

—Montaigne



Paper *the solid foundation for your career*

A *paper* foundation for your career? Nothing could be more solid in today's economy!

The pulp and paper industry is now fifth largest in the country, and it continues to expand at a remarkable rate. For the technically trained man, this means unlimited career potential in every area of endeavor—from growing trees to producing the many paper products the world demands.

Whether you go directly into manufacturing or into supplying of forest or chemical raw materials required, your opportunities are great for a satisfying future in this dynamic industry.

CHEMICALS DIVISION **Olin**

460 PARK AVENUE • NEW YORK 22, N. Y.

supplying basic chemicals to the paper industry

2435

51



Riegel Waccamaw Forest View, 1939



Same View, 1960

Riegel's progressive forestry program provides a sound base for its growth in the Carolinas. This program assures wood for the continued production of quality pulp and paper at our Carolina mill

Riegel

PULP & PAPERBOARD DIVISION

ACME, N. C.

BOLTON, N. C.

Articles

Progress Report

Improving Quality and Yield of Forest Trees

Hofmann Forest Report

A New Program in Forest Pathology
at North Carolina State College

Dr. Bryant's Trip to Germany

Exotic Forestry in New Zealand

A Summer in Alaska

The Seniors' Spring Semester Siesta

Method of Least Squares

Curriculum Revisions

Progress Report for 1961-1962

by

R. J. PRESTON, Dean

School of Forestry

This year has been one of continuing progress and growth, both qualitatively and quantitatively, for the School. The programs of the School were reaccredited by the Society of American Foresters, alumni topped the thousand mark with 1017, and the 74 undergraduate degrees granted in 1961 ranked fifth among the nation's forestry schools.

Enrollment, after several years of rapid increase, has leveled off with 418 students enrolled in the fall semester, the sixth largest among forestry schools. This leveling off of enrollment is partly explainable by a stiffening of entrance requirements and an increase in the undergraduate mathematics and science requirements. There has been a marked increase in the ability of the student body as measured by entrance examination scores, with Forestry students averaging just below those in Design and Engineering, but higher than in the other Schools. Graduate enrollments continue to climb, with 40 enrolled during the fall semester, including one post doctoral fellow and 20 working for the Ph.D. degree. The regional nature of the School is emphasized in that 23 states and 13 foreign countries are represented in the student body. Cooperative agreements with Kentucky, Tennessee, and Texas exist which provide part or all of the out-of-state tuition for upperclassmen by the state in which the student resides; a similar agreement with Virginia provides only for students in Pulp and Paper or Wood Technology. This year seventeen students are receiving these grants.

We are most gratified with the number of scholarships available to qualified students. This year a total of 114 undergraduate students are receiving some scholarship aid and forty-one have secured loans.

The big disappointment of the year was the failure of the bond issue to pass. Eight hundred thirty-three thousand dollars had been allocated for a new forestry building and we were eagerly anticipating the move into this new facility which would give us badly needed space and centralize our forestry facilities. We are assured that our building will retain its priority and we are hopeful that a way may be found to permit architects to soon start the plans for it. One gratifying measure of the stature of our School was approval by the National Science Foundation for a matching grant of \$85,000 for graduate laboratories and facilities, which with the state appropriation brings the total for the building to over \$900,000.

The finest thing that happened during the year was a most generous gift by the School's good friend Edwin F. Conger. This gift amounts to two-fifths of the value of some 3,500 acres of land near Aiken, South Carolina. The first \$50,000 received from this gift will establish the Edwin F. Conger Distinguished Professorship and the balance will endow scholarships which will give preference to students from Virginia.

Other new National Science Foundation grants received during the year which indicate the esteem our programs have achieved include a grant

to Dr. Perry for \$31,400 for aid in his research on physiological-genetic differences in growth rate, onset, duration and cessation of dormancy; a grant to L. C. Saylor for \$24,200 for research on the cytogenetics of speciation in pines; a matching fund grant of \$12,000 to Dr. Stamm for a research treating cylinder; a pre-doctoral research participation grant for college teachers to enable faculty from other schools to do advanced work here; and undergraduate research participation grants to the Departments of Forest Management and Wood Products to enable eight outstanding undergraduates to spend a full summer and part-time during the year on a research program.

There were many items of interest concerning our staff during the year:

Dr. Eric L. Ellwood was appointed Head of our Department of Wood Products which includes the curricula in Pulp and Paper and Wood Technology. Dr. Ellwood, whose background appears elsewhere in this Pinetum, is in charge of the teaching, research and extension programs in wood products.

Dr. A. C. Barefoot returned after a two-year leave of absence with I.C.A. on a program to develop a veneer and plywood industry in Pakistan.

Dr. R. C. Bryant took a semester's leave to visit western Europe and in particular to study forestry practices in Germany.

Mr. H. E. Duke retires June 30, 1962 after twenty years as Superintendent of the Hope Valley Forest.

Mr. Peter Dyson filled in for Dr. Bryant in the fall and continued on through the spring semester as a Visiting Lecturer. His appointment as Assistant Professor in Forest Economics has been approved for the coming year.

Dr. J. V. Hofmann received two fine honors during the year. A beautifully painted portrait, with commissioning arranged by interested school alumni, was unveiled at the Rolleo and at the time of the Society of American Foresters National Meeting in October the University of Minnesota awarded him the coveted alumnus Outstanding Achievement Citation and medal.

Dr. J. O. Lammi permanently rejoined the staff after leave with FAO in Switzerland.

Dr. R. J. Preston was re-elected to the Council of the SAF and reappointed as the Society's representative to the National Research Council.

Dr. A. J. Stamm was awarded the Reuben B. Robertson Distinguished Professorship in recognition of his outstanding contribution to research in wood-liquid relations. Dr. Stamm again participated in the N. S. F. visiting scientist lecture program.

Mr. K. O. Summerville, a graduate in the class of 1959, was appointed research technician to work in the area of genetics, nurseries, silviculture and management.

Professor R. J. Thomas was awarded a predoctoral fellowship by the National Science Foundation. He has been granted a leave of absence for the coming year and will study at Duke. Dick is serving as Chairman of the Carolinas-Chesapeake Section of the Forest Products Research Society this year.

Dr. B. J. Zobel received a NSF grant to present a paper on forest genetics at the meeting of the International Union of Forest Research Workers

in Vienna, Austria, last fall. He also visited genetic centers in northern Europe and shortly after returning to this country was called upon to give a series of lectures in British Columbia, Oregon and Washington.

Cooperative arrangements have been concluded between the school and three departments in the School of Agriculture (Entomology, Plant Pathology and Soils) which will greatly strengthen the program of the school. An essentially full-time scientist in each of these areas will be a joint member of the School of Forestry faculty and the departmental faculty and will teach the courses in these disciplines taken by foresters as well as conduct active research.

Dr. Arthur Kelman, Reynolds Professor of Plant Pathology, will teach courses in Forest Tree Diseases and conduct an active research program in several areas of serious forest disease problems.

Dr. Maurice Farrier, Assistant Professor of Entomology, will teach the courses and conduct research in Forest Insects.

Dr. Charles B. Davey has accepted the position of Associate Professor of Soils effective July 1, 1962 and will work with problems in forest soils.

The increasing importance of forest pests in the management of southern forests caused the pulp and paper industry to establish this year the Southern Forest Disease and Insect Research Council. This makes the full-time participation of Dr. Kelman and Dr. Farrier in this area of forestry most timely.

The Forestry Extension staff continues its fine program of self-improvement through the generosity of the Richardson Foundation. John L. Gray and E. M. Jones returned this fall after a year of graduate study at Duke and Louisiana Polytechnic Institute respectively. This year J. C. Jones is on leave studying at Duke and J. H. Gilliam is studying at the University of Tennessee.

All of us were most pleased when the Appalachian Section of the Society of American Foresters honored retired State Extension Forester R. W. Graeber by naming him "Man of the Year in Forestry" in recognition of his pioneering achievements in bringing forestry to the people of the state.

During this year a calender was added to the "Tar Heel Baby," our paper machine, greatly increasing its usefulness for instruction and research. One of the outstanding collections of tropical woods was purchased from Professor Emeritus Dave Cribbs of Penn State, who spent a week with us going over the collection and giving points on techniques for more effective use of our research microscope. Last summer, Ralph Marts, recently retired from the U. S. Forest Products Laboratory, spent several weeks with our staff instructing them in advanced microscopic techniques.

The curriculum in Forest Management was revised with substantial increases in the requirements in mathematics, physics and chemistry. The requirements in these areas are probably now higher than in other programs in accredited schools. An option or minor is also now required which assures that each student gets training in some depth in a selected field. Honor programs have been developed in all three curricula to stimulate outstanding students and to permit them great flexibility in course requirements.

Improving Quality and Yield of Forest Trees

by

BRUCE ZOBEL¹

¹ Professor, Forest Genetics at North Carolina State College, Raleigh.

General

In the practice of silviculture, trees can be improved in two ways: (1) by making more suitable the conditions in which the trees are growing—in other words, by improving environment, (2) by making the tree itself better through the application of genetic principles. In order that forestry progress rapidly, we need to improve both the quality of products and yields from our forest lands. We need to use both the environmental and genetic methods to get the greatest gains in quality and yields through silviculture.

Classical silviculture has emphasized the importance of the environment and its effects on trees. The words "tree improvement" have been applied in recent years to silviculture where improvement of forest trees is sought through the manipulation of both environment and genetics. This article described certain phases of the tree improvement program in the School of Forestry at N. C. State, with special emphasis on the genetic approach.

Tree Improvement Program at N. C. State

Although previous research had been underway, a really intensive program in tree improvement was initiated when, in 1956, 13 of the major pulp and paper industries from 7 states started a region-wide program in 1956 in cooperation with the N. C. Agricultural Experiment Station and the School of Forestry. Since then, money for research has also been obtained from the National Science Foundation, and several other companies have joined the program, so that now a total of 15 companies in 10 states are contributing to it. This program is a rather unique one, supported by industry funds, Experiment Station funds and National Science Foundation Grant funds. Five faculty and staff members now work full time on the present program, and several other "specialists" on the faculty of N. C. State devote part time to this work, advising in their specialties, as needed.

Funds from the Industries and Experiment Station are used in three ways: (1) Consultation and advice is given to the industries on practical problems concerning genetics or related questions in silviculture. Trees for use in seed orchards are graded, advice is given on the establishment, operation and maintenance of seed orchards, progeny tests are designed and analyzed, advice is given as to proper species or geographic source of a species to be used in a specific situation, and other similar consultant activities are undertaken. To date, 900 trees have been selected and graded, and approximately 900 acres of seed orchard is established or being established, as well as one orchard each of yellow poplar (*Liriodendron*) and sweetgum (*Liquidambar*). Bob McElwee works directly between the School and supporting industries, and has the descriptive title of Liaison Geneticist.

(2) Four graduate assistantships are given to students majoring in forest biology. These half-time assistantships carry a stipend of \$2700.00 a year for the Ph.D. degree, and \$2400.00 a year for the Master's degree. There are

currently more than 15 graduate students working on various problems with genetic significance, most of them for the Ph.D. degree. Much of the "short term" basic research is done by these students for their thesis research. Because of the complexity of this research and its long-term nature, in awarding assistantships preference is given to students who plan to work all the way through to the Ph.D. degree, although they are encouraged to secure the Master's degree along the way.

(3) Studies on wood properties comprise the majority of basic research projects for which industry funds are used. The ultimate objective is to determine the inheritance patterns of various wood properties; i.e., how much improvement can be obtained by using selected parents. It was found, however, that to accomplish this objective, much information not strictly genetic in nature had to be determined. Such things as variation within trees, variation among trees of the same age and species growing under similar conditions, variation among trees of the same age growing on different sites and variation of trees of a species growing in different geographic areas had to be determined and analyzed. Many important wood properties could be studied, but at the present time only specific gravity, tracheid length, tracheid width, wall thickness and cellulose yields have been looked into, with the most information being available on specific gravity and tracheid length.

(4) Special problems such as adaptability of Mexican pines or production of hybrids for certain problem sites are being undertaken.

Funds from the National Science Foundation grant are used in two ways:

(1) Detailed studies on heritability (i.e., the intensity of inheritance) of a number of characteristics of loblolly pine are underway. This long-term study is a very large one, and perhaps the only one in forestry of such a scale and design that will enable a good determination of the variance components of a large number of characters of pine. This heritability study is a joint undertaking between N. C. State College and the Southland Experiment Station of International Paper Company at Bainbridge, Georgia. Four persons are working on it full time, and already 32,000 seedlings have been planted in a 50-acre test area. Control pollinations have been made involving 320 large loblolly pines; this job in itself is a formidable undertaking requiring considerable skill and hard work consuming thousands of man-hours. Seedlings from these control crosses will require another 40 acres of test area. This basic research project is large, but one that will yield valuable results and information for many years to come, and will yield information not available from any other source.

A tree improvement program cannot be successful without the inclusion of many allied fields such as physiology, cytogenetics, soils, statistics, wood technology, and pathology and entomology. Every time you "turn around" problems involving these allied fields are encountered. Thus, the tree improvement program at N. C. State works closely with the special disciplines, and each has contributed considerably to the N. C. State program.

Physiological phases of genetic studies have been expanded by a NSF grant to Dr. Perry, a faculty member of the School of Forestry making possible basic research on "why certain trees grow faster than others", on genetic differences in nutrition, photosynthesis and respiration and other similar

things. These will be expanded with time to include physiological information involving the development of different kinds of wood. Phases of the work involving soils or management problems are under the direction of Dr. Maki who, as Head of the Forest Management Department, is administratively in charge of the Tree Improvement Program.

Several projects are jointly sponsored by the Forest Management and Genetics Departments. One of these has as its objective cytogenetic, speciation and evolutionary studies of the members of the Genus *Pinus*. Chromosome analyses have been made by Mr. Saylor on a number of species; already seed of 60 or more pine species has been obtained. This work is also partly sponsored by National Science Foundations funds, under the direction of Mr. Saylor. In addition to laboratory studies, a pine arboretum has been started on the Schenck Memorial Forest. This arboretum will contain all pine species available that will grow in this area; currently, 50 acres have been set aside for this purpose.

Results of the Tree Improvement Program

One major contribution to date has been on wood properties. We now know the variation patterns within trees for several species and are sure that a sample at breast height represents the characters of the whole tree—at least for specific gravity, cellulose yield and probably for tracheid length. We have found little effect of site on wood properties within a given geographic area, but have found definite differences among geographic areas. For example, green wood of loblolly pine weighs about 500 lbs. per cord more in the Coastal Plain of South Carolina than in the Coastal Plain of central Virginia; wood of this species grown in the Coastal Plain of North Carolina weighs approximately 250 lbs. a cord more than loblolly in the Piedmont of N. C.

Our studies, along with others throughout the world, have shown that specific gravity, tracheid length and cell width are fairly strongly inherited—thus, if seed from high specific gravity trees are used, the seedlings produced will have a somewhat higher specific gravity than those grown from “ordinary” seed. Tracheid length appears to be the most strongly inherited of the wood properties, indicating that relatively large gains may be expected by using seed of parents with long tracheids.

Other studies have begun to yield information on inheritance of tree growth and form. For example, bole straightness in loblolly seems to be strongly controlled, and real improvements will be obtained by using straight trees for seed parents. (The Australians have shown outstanding results on gains from selecting for straightness; i.e., they have quadrupled the number of “acceptable” stems by using seed from straight trees only). Height growth, gum yields, limb angle, disease resistance, and several physiological and adaptive characteristics all seem to be inherited strongly enough to be of value in silviculture. Quite surprisingly, diameter growth has shown a “usable” inheritance pattern, showing faster-growing seedlings will be obtained by using seeds from the larger trees in the stand.

Numerous studies have been made on the relationship of several wood characteristics within a tree. For example, it was found that tracheid length is quite independent of specific gravity—thus, you can have a tree with high

specific gravity with either long or short tracheids. Additionally, tracheid width seemed to be independent of length or wall thickness. Loblolly trees were found having tracheids with thin walls that were long and narrow, ideal for newsprint or high grade papers. Other loblolly trees were found that had long thick-walled tracheids that will give good yields in the manufacture of graft paper.

Many kinds of research are underway by graduate students. As examples, the following results were obtained from various student research projects:

(1) Straight loblolly trees had about 6% of the total merchantable volume composed of the very undesirable compression wood, while moderately crooked trees had up to 15% of the volume compression wood. Very crooked trees had over 50% of the volume compression wood.

(2) There is much variation in loblolly pine, most of which is among individual trees. Only a small portion of the variation is between sites or geographic areas. Though small, these differences are still considerable; as previously pointed out, wood specific gravity for example, decreases materially as one goes from south to north.

(3) The selected superior trees produce as much seed as check trees in the same stand, contrary to the long-standing notion that the fastest growing trees produce the least seed.

(4) Based on research and some 100,000 commercial grafts, field grafting is feasible for seed orchard establishment over a wide range of latitude and is quite reasonable in cost. Nursery bed grafting is even better. The best and most efficient cover to use is a polyethylene (poultry) bag covered by a kraft bag.

(5) Sweetgum does not self easily; i.e., when pollen from a tree is put on flowers of that same tree, very few seeds are formed.

(6) Yellow poplar gives much better sound seed set when crossed with a tree from some distance away than is obtained from normally-collected seed, which may be largely selfed because the bees go from one flower to the other on the same tree.

(7) Sweetgum wood varies greatly among trees, and has a rather high specific gravity, making it quite good for pulping. Yellow poplar wood also varies a great deal from tree to tree, but has a much lower average specific gravity than sweetgum.

(8) It is possible to make pollen of a pine radioactive by injecting P^{32} into the stem. This enables studies of pollen flight characteristics to be made to find out how far pollen flies, how wide an isolation area needs to be left around a seed orchard, and how far clones in an orchard need to be separated.

(9) There seems to be considerable geographic variability in growth and form of sweetgum, yellow poplar and Virginia pine, as well as in loblolly pine.

(10) Wood of pond pine is similar to loblolly in several important characteristics. Very excellent specimen trees of both pond and Virginia pine have been found and established in seed orchards. Their growth, form and wood qualities are similar to the best loblolly pines.

(11) Cellulose yields vary greatly among trees, (i.e., a pound of wood from one loblolly tree may produce as much as 7% more cellulose than a

pound of wood from another tree) but no genetic pattern has been observed as yet.

(12) It is possible to estimate the wood properties of a group of small trees from their limbs, but the relationship is not good enough to use for individual trees where considerable accuracy is required.

Future of Tree Improvement

Tree improvement silviculture will become more and more important as more information becomes available about the effects of environment and genetics on important tree characteristics. Genetics is already a part of silviculture in the South—use of seed from seed orchards is one practical use of genetics in forestry. All forestry studies are long term, and tree improvement is no exception, so answers will come slowly. It bears repeating here, as was stated in the opening paragraph, that forestry will advance only as fast as the forester takes into account the biology and growth of the individual tree. The tree improvement approach is intriguing and interesting; it is new and untested, leaving almost unlimited chances for discovery and development.

Curriculum Revisions

After careful study, the faculty proposes the following changes in the curriculum in Forest Management with the twofold aim of strengthening the curriculum in the basic sciences and providing flexibility to permit a limited amount of specialization.

Forestry education has required introductory studies into many fields but has not provided training in depth in any one area. In addition to increasing the requirements in mathematics, chemistry, and physics, the requirements in professional courses have been reduced to the minimum core which will still meet accrediting requirements. Recognizing the increasing complexity and diversity of the positions open to graduates, each student now selects an option at the beginning of the junior year and follows a prescribed program in that option. Seven options are outlined which will meet the needs of most students in the department. Students desiring specializations not outlined may work out an option with the approval of the advisor, department head and dean, or the outlined options may be modified with similar approval. Not outlined is an Honors Program for superior students which will permit substitution within the core curriculum.

One hundred forty-two credits are required during the eight-semester program, plus ten for the sophomore summer camp.

Option Requirements

Forestry Management	Forest Biology
Forest Mensuration	Forest Recreation and Parks
Forest Management Science	Forest Wildlife Management
Watershed Management	

The Hofmann Forest Report

by

J. V. HOFMANN

Manager, North Carolina Forestry Foundation

Development of Block 10 is now under way. A canal and road have been completed from the west boundary on the South side of Highway No. 17, and parallel with the Highway, to the Morton road and another canal and road are almost completed from the Grant's Creek loop road north to Highway No. 17.

Canals and roads will be constructed wherever conditions require drainage and access on Block 10.

Oil operations have closed on the forest, largely because of financial problems of the operators. All leases have expired. Some drilling is in progress on the Coastal plains which may furnish more information.

The CFI plots were remeasured in 1961 but compilations are not complete. Indications are that satisfactory growth has occurred in the production areas and restocking is improving in all areas. The planting and seeding area of 1961 is restocking although some areas are too wet for reproduction.

Canal and road construction continues with the result that the entire forest becomes more accessible and improved for timber production.

The forest has been wet nearly all year which was favorable for fire protection. However, a fire was started by careless controlled burning by one of the farmers, adjoining the forest, on April 4, 1962, on a severe fire weather cycle. The fire burned more than 400 acres in Block 10 and was a serious threat to large areas. Combined efforts of two "boondocker" fire trucks and about 50 men from the Marine Base; the fire trucks and the large tank truck of the forest, fire plows from Weyerhaeuser Company and the forest; the Forest Service scouting plane and water bomber plane all exerting every effort for about four hours, held the Morton Road and stopped a vicious blaze after fighting many spot fires which crossed the road and fire lines.

An experimental area of 80 acres has been located in the pocosin area north of the Quaker bridge Road to study the effect of various methods of treatments on the growth of pond pine and loblolly pine. The area is divided into 16 plots to be treated by fertilizing, discing, burning and combinations of these methods. Drainage is underway at present and it is planned to complete the treatments for planting in 1963. The results should supply a guide to the best method of restocking the open areas.

THE LIGHT of friendship is like the light of phosphorus, seen plainest when all around it is dark.

—Crowell

A New Program in Forest Pathology at North Carolina State College

by

ARTHUR KELMAN

Professor of Plant Pathology and Forestry

Protection of forest trees against disease and also of wood products against decay has recently assumed a new importance. According to the Timber Resource Review of the U. S. Forest Service, disease now ranks above fire and insects as the major threat to the growth and continued productivity of forest areas in this country.

Experiences in Europe indicate that native disease problems formerly of minor importance in natural stands become serious under the practices that are essential in the management of plantations. Most of the forest areas of importance in North Carolina and the south are now under management or will be in the near future. Furthermore, plantations with trees of uniform age and genotype generally are more likely to be affected by epidemics of native and introduced diseases than are natural stands. Unfortunately, relatively little information is available that will serve as a basis for evaluating potential damage or in developing controls that can be incorporated in management practices. In particular, practical controls are urgently needed for two important diseases, fusiform rust and annosus root rot, that now threaten southern pines.

Fusiform rust is a native disease that has increased in severity with the increased plantings of the susceptible slash and loblolly pines on sites previously occupied by the more resistant longleaf pine. Fust infections on young seedlings result in premature death; stem infections of larger trees result in windthrow damage, deformation, and eventual death. Although studies on the disease including aspects of control in nurseries have been completed in other areas in the south, more knowledge of methods of reducing losses in infected stands is required. Information is also needed on the relative resistance of progeny of selected superior seed trees to this rust disease.

Recent preliminary surveys of plantations in the south revealed that annosus root rot is causing damage over a wide area. In one survey annosus root rot was causing mortality and predisposing trees to windthrow in 73% of thinned slash pine stands that were surveyed. Previously it had been recognized as a cause of root and butt rot of white pine in the Biltmore plantations in North Carolina. At present this disease is considered to be the most serious disease of planted conifers in Europe where it has caused great losses. Research data to serve as a basis for possible control measures for annosus root rot are not available for North Carolina or the south in general.

The Division of Forest Disease Research of Southeastern Forest Experiment Station in Asheville has had an excellent record of research in forest pathology. Under the leadership of Dr. George H. Hepting, Chief of the

Division of Forest Disease Research, good progress was made in solving many of the pressing problems of the past. However, forest pathologists of this division are responsible for forest disease problems in the entire southeastern United States and cannot direct their research efforts solely to problems that are of primary concern in North Carolina. The expanding needs for research also have created a problem in the south and other areas as well because of the lack of qualified and well trained forest pathologists. Within the past two years, more new appointments in forest pathology have been made not only in the federal service but in industry and at the universities than have been made in the previous 10 years. With the exception of Duke University, graduate programs in forest pathology in the south have been virtually non-existent.

In view of the need for more forest pathologists as well as the necessity for an increase in research, a new graduate program and research project in forest pathology was initiated at North Carolina State College in July 1, 1961. Previously investigations had been made on the role of plant parasitic nematodes on the growth of southern pines, on certain root rots and foliage diseases in nurseries, and on cone and fusiform rusts. However, these projects were supported on a limited basis and supplemented by grants.

Under the new program, candidates for both the Master of Science and the Ph.D. degrees will have an opportunity for training in Forest Pathology with a minor in Genetics, Plant Physiology, Soils or Forest Management. With the opening of the new Forest Service Research laboratory in the Research Triangle, students will have opportunities for research guidance and contacts with those staff members of this laboratory who will receive appointments to the Graduate Faculty at N. C. State College. In addition, the Department of Plant Pathology with 27 staff members, 21 graduate students, and 18 technical aids will provide facilities and professional experiences that are not equalled at other schools in the south and at few institutions in this country.

It is well recognized that certain forest tree diseases present some of the most difficult and challenging problems in the entire field of plant pathology. The School of Forestry at North Carolina State College can now look forward to a new and important role in training and research in forest pathology as a part of its expanding program.

POWER—To have what we want is riches; but to be able to do without is power.
—George Macdonald

WAYFARERS—I expect to pass through this world but once. Any good thing, therefore, that I can do or any kindness I can show to any fellow human being let me do it now. Let me not defer nor neglect it, for I shall not pass this way again.
—Stephen Grellet

Exotic Forestry in New Zealand

by

BOHUN B. KINLOCH, JR.

From the far-flung island Commonwealth of New Zealand, 1300 miles southeast of Australia, are forthcoming some activities and statistics that are unique in the world of forestry. Surrounded by the vast expanse of the Pacific Ocean and Tasman Sea, the country enjoys a climate that is marked by abundant rainfall, moderate temperatures, and absence of seasonal extremes which all contribute to a long and productive growing season that is practically ideal for growing everything from livestock to exotic forests. It is the latter activity that has been demanding increasing interest and intensity of development in recent decades. Long noted for one of the world's primary producers and exporters of pastoral and agricultural crops, on which the economy of the country has depended, there is now good evidence that on a total land use basis, the per acre value production of wood from exotic forests can exceed that of the traditional primary produce.

Although exotic trees have been planted in New Zealand for over a century, the largest impetus came in the mid-1920's and 1930's in two large scale planting waves. The total acreage of exotic forests is now just under 1,000,000 of both government and privately owned land. Plans are to double this figure by the end of the century and triple it by 2025 to meet anticipated demands for domestic and export consumptions. The number and variety of species is large and comes from all parts of the world, though North American types feature most prominently. For example, in the 9,000 acre Rotochu state experimental forest, there are juxtaposed on succeeding plantations such unlikely bedfellows as Douglas fir, several southern pines, eastern white pine, Mexican patula pine, Corsican pine, Monterey pine, and Ponderosa pine—a veritable international museum of conifers. In another state forest is found an extraordinarily vigorous stand of California redwood with an understory of maple and native "pungha", or tree ferns, which themselves grow to heights of 20 to 40 feet. Close by is an impressive stand of European larch. There have been relatively few plantations or research activity in exotic hardwoods, with the exception of certain species of Australian eucalypts.

Although there is a rich variety of exotic conifers, by far the most important in both extent and commercial value is Monterey pine (*Pinus radiata*, Don.) This unusual pine, native to a narrow strip of coastal California where it is of little commercial importance, has in recent times been established as a commercial exotic in many parts of the world including South Africa, Chile, Australia, and presently occupies over 90 per cent of the exotic forest area of New Zealand.

Growth rates in New Zealand of any organism, from tree to trout, can only be expressed in superlatives. Many, if not most, of the various species of flora and fauna that have been imported here seem to have reached their environmental and ecological utopia. This is partially the result of importing species of an inherently vigorous nature and partially the result of the ideal ten months, for at least Monterey pine, together with an absence of virulent

climatic and moisture conditions which give an effective growing season of and destructive pathogens.

The yield and growth rate of Monterey pine is particularly spectacular. On optimum sites, stands of Monterey pine can attain a height of 120 feet in 20 years. Individual trees over 150 feet high and 25-30 inches d.b.h. at 30 to 35 years of age are not at all uncommon. Average per acre growth and yield figures at age 30 for about 150,000 acres of Monterey pine on one of the largest private industrial forestry companies are as follows:

Growth

M.A.I. (height, after age 5)—5 feet

M.A.I. (diameter)—0.6 inches

M.A.I. (volume)—325-375 cubic feet

Basal area—230 square feet

Yield

8,000-12,000 cu. ft./acre

A comparison of Monterey pine with our more familiar loblolly at age 30 reveals the following:

Monterey pine (site class I)		Loblolly pine (site index 90)
Average height	125	74
Average diameter	18	10.4
Volume (cu. ft./acre)	9,500	3,840
Basal area/acre	230	138

Again, however, many individual trees have been found that far surpass the average. M.A.I.'s in height up to 9 feet, diameter up to 1 inch, and cubic foot volume per acre in excess of 400 are recorded. State and private foresters are presently searching their forests for these elite individuals for grafts for future seed production and subsequent planting.

No other extensively planted exotic can equal the vigor of Monterey pine, but a few others are nevertheless outstanding. Douglas fir, on optimum sites grows to a height of 128 feet with a M.A.I. of 350 cubic feet per acre at age 50. The author observed one small stand of redwood 59 years old (which, curiously, was one of the only successful plantations of this species in the country) whose average diameter was estimated at around 3 to 4 feet.

Spectacular as these statistics are, they nevertheless do not nearly approximate the full biological potential of the forest sites for cellulose production. This is due to the fact that aside from the original plantations, the exotic forests have never, until very recently, been managed. They have grown up with virtually no thinnings due to a chronic labor shortage that was accentuated during the war years with consequent huge losses from competitive mortality. Under intensive management with regular and systematic thinnings, which are currently being undertaken, there is no telling what the full yield potential will prove to be.

Inevitably, the question arises as to why New Zealand turned originally to exotics for their lumber and fiber requirements. The answer is not hard to find. Originally covered with an abundant and rich forest flora consisting largely of various podocarps, beech, and the giant Kauri, of commercial im-

portance, New Zealand followed in the path of so many "virgin" countries, including our own, of wasteful and destructive logging with little regard for regeneration or the growing stock of the future. The rather short-sighted objective of the early settlers was to clear land for agriculture and pasture, often by deliberately burning thousands of acres of virgin forests, with the inevitable result that they found themselves facing the prospect of a timber famine in the not too distant future if drastic steps were not taken. Although conservation of the indigenous forests has been practiced now for some time, it was too late and too little. In contrast to the exotics, the native trees, while of excellent quality, are slow to regenerate naturally (or even artificially), are very slow growing for the most part and require rotations of from one-and-a-half to three centuries.

Wildlife abounds in the New Zealand forests in the form of deer (red, fallow, virginia, and several other species), quail, pheasant, wallabie (a close relative of the kangaroo), opossum, and, on the upper slopes, chamois and thar. All of these, like the trees have been imported in many cases to the country's (and especially forester's) extreme regret. Deer and opossum are causing severe damage to the forest in some areas, particularly the upper protection forests, and far from being conserved or managed, are being destroyed as fast as possible by professionally employed hunters or by poisoning. However, with abundant forage, extensive wild and rugged terrain, and an absence of natural predators, it presently seems safe to say these animals will be around for a good while to come. So what has become, in many instances, the foresters' nightmare, has become the sportsman's paradise. Needless to say, there are no daily or seasonal limits, and trophy heads of twelve to eighteen points and more from the handsome red deer are there for the taking (and an awful lot of climbing). The fisherman is no less at home here. Rainbow and brown trout of five to six pounds are a normal catch, the record being 16 pounds.

Being such a relatively recent development when considered against the span of a forest rotation, there are still many managerial and silvicultural problems to be solved in the development of New Zealand's exotic forests. Most of the plantations have scarcely been through one rotation; and optimum spacing, thinning cycles, and length of rotation are as yet incompletely worked out. One of the most pressing problems is the shortage of labor, both professional and unskilled. For example, the largest privately owned forestry company with 176,000 acres has only about five graduate foresters. When one considers that every acre of Monterey pine that goes into quality sawtimber production has to be hand pruned due to the tree's branchy habit and lack of self-pruning, the need for a large labor force becomes apparent. Then, there is the ever imminent threat to the health of the forest. The same environmental conditions that promote such vigorous growth and high yields of wood are equally favorable to the establishment of some introduced pathogen, similar to our chestnut blight, that could easily reach epidemic proportions, especially in the extensive mono-species culture that now exists. Nevertheless, the future of exotic forestry in New Zealand appears very bright, and it would not be at all surprising to find this country on a par with Scandanavia in the production and export of forest products in the next half century.

Here and There

by

DR. R. C. BRYANT

During the fall semester the writer had the good fortune to be able to observe current forestry practice in Germany and Switzerland. The trip was planned in cooperation with the Forestry Attache of the German Embassy in Washington and included visits to thirteen forest districts, two nurseries, and eight schools for forest technicians and forest workers. Most of these were in the three German "states" of Baden-Württemberg, Bavaria, and Hesse. From one to several days were spent on each forest district in company with the resident Forstmeister discussing current problems of forestry and observing field operations.

Although the historical development and emphasis in management has been different in Germany than in the United States, many of the problems that now concern American foresters are similar to those facing German foresters. Damage from animals, insects, and pathogens is acute in many areas; pressures of increasing recreational use of forest land are requiring more attention; forest labor reservoirs are being drained by the lure of factory jobs with better pay and more pleasant working conditions; markets for some species, especially beech, have declined forcing revisions of management thinking; and there is a continuous search for more efficient means of production. Perhaps the greatest difference observed in the solution of these and similar problems is the apparent conservatism of the German forester. There is a weight of tradition, custom, and experience which appears to restrain many innovations in procedures or techniques. There are indications, however, that this attitude is changing under the stimulus of the common market and rapidly increasing economic activity.

The intensity with which unit forest areas are managed is the most striking characteristic of most European forestry. Stands are fully stocked with species best suited for the particular site, cultural operations are performed as needed and on schedule, and at harvest each tree is processed into products yielding a maximum return with practically no waste. Transportation systems are well established and maintained and permit ready access to all stands. Silvicultural systems look just like the textbook examples and are a thing of beauty to the forester's eyes.

Integrated with forest management is a highly developed system of game management; and almost without exception, German foresters place as much stress on good game crops as timber crops. Red deer, stag, wild boar, fox, rabbits, and game birds are a frequent sight as one travels the forest. On many districts populations of deer and stag are maintained at levels that require special techniques to keep damage to forest stands to an acceptable limit. Usually reproduction of broad leaved species and several conifers must be fenced until they reach heights above the reach of the animals, and frequently the use of repellants on seedlings is necessary.

The administrative organization on a typical forest district includes a Forstmeister, five to seven Revier foresters each in charge of a portion of the district, one or two wardens, and a permanent crew of woods' workers

often with a complement of women for the seeding and planting jobs. For each of these levels there is a system of education and training. The Forstmeister is a university trained man. The Revier forester, whom we might class as a technician, attends a two-year forest school, the warden a six-months school, and the laboreres schools of shorter duration. The end result is a well-trained group, each man having his own responsibilities and each contributing to the optimum production of goods and services from each unit of forest land.

How far we in America can approach the level of management that has been reached in Europe only time can tell, but a comparison of the two current systems convinced the writer that America can be proud of the progress she has made and is making in good forest management.

Method of Least Squares

by

TOM HUFFMAN

"Now that you have reached the point at which you are ready to become managers and foresters, you should take one last look at the most important aspect of technical forestry—the method of least squares. You know the formula for the short cut method is:

$R_0OK\Sigma\Pi EX^2$ Ace of Hearts

"Hit it"! **Censored "Damn, I'm busted"!

"Suppose the owner wants a working plan for the two million acres of bottom-land hardwood that you're converting to pine. Where do you start? Well? Hell no, my dear sir! O.K. Jubenville, how did Dr. Perry use the formula to find the resultant cross of a four-legged, crosse-yed, brown-haired, fuzzy tip moth and a black-eyed, forked-tongued, bark eating, yellow-spotted bark beetle? Well, does anybody know?"

"Dr. Bryant, on my district we used the formula to calculate the rate of growth of lichen on igneus rock."

"Sirs—dammit—you should be able to tie together all of what you've learned these past four years! I wonder just why half of you are in forestry anyway! I don't see how I can give any of you a good recommendation! Hell, I guess you can sell shoes!"

"Uh, Dr. Bryant, how do we use the formula?"

"Well, there is no simple answer. It's a function of supply and demand, certainly."

"But Dr. Bryant, when do we use the formula?"

"Certainly this is a function of management. You've got to keep in mind the public and try to maintain good public relations. Well, let's move on to contracts. I just wanted to clear up any questions you might have had about the least squares method. You'll be able to regurgitate it later. We'll have a quiz next meeting. Just study over all we've had in lecture, and check over your textbooks."

Blackjack, anyone?

A Summer In Alaska

by

BILL CRAIG

I was filled with great expectation as I flew north from Seattle to Alaska last summer. The DC-6 landed at a god-forsaken airport that appeared below through a hole in the thick clouds. Soon afterward, I was aloft in a PBY flying boat for the twenty-minute flight to Ketchikan, the third largest town in the state with about 10,000 people. I stepped from the plane, and walked up the dock in the rain which is so common to the Alaskan panhandle. I soon found that there would be a seven-hour layover before the 40-mile flight to Hollis where the Forest Service research camp was located.

A walk around town soon convinced me that land is hard to come by in Ketchikan as most of the houses are perched very close together on the steep mountain side. The bustling town is known as the salmon capital of the world, and once was the jumping off point for many of the hard-rock gold miners. Finally, in a water-logged condition, I retreated to the airline office to await the flight. When the time finally came, we climbed into an old Gruman Goose. The pilot managed to get the plane off the water, and then we had a real ride through more airpockets than I care to remember. After landing at three or four small logging operations and isolated communities, the plane taxied up to the dock at the metropolis of Hollis.

At one time Hollis was a gold mining town of about 400 people, but now the town serves as a logging camp for the Ketchikan Pulp Company. The company is working on a timber sale of over six billion board feet on the southern end of the 16 million acre Tongass National Forest.

After a five-minute boat trip, I finally arrived at the small island that was to be my home for the next fourteen weeks. The ten-man camp consisted of three professional foresters, a cook, and six college students. The temporary staff was housed in a 60 foot house boat, while the foresters lived in houses.

Both watershed and forest management research were being conducted at the camp, with the former receiving the major amount of attention. The majority of the watershed work was directed at determining the effects of the logging operation on the streams, and thus on the spawning grounds for the salmon. Several of the projects were in cooperation with the University of Washington. Most of our time was spent sloshing in the creeks taking sediment samples, taking discharge measurements, digging holes, and building log jams. However, there were a few dry jobs such as analyzing sediment samples, and checking the numerous weather gages.

The choice jobs dealing with forest management were the regeneration studies. The plots were located about 1500 vertical feet above the road in a mile square clear cut. When you finally found the plots, which were referenced to a stump in the clear cut, the seedlings would be as thick as dog hair. However, the research projects did not have a monopoly on the choice jobs. The maintenance problems were most enlightening, ranging from painting the under side of a house boat to spilling paint off a roof, onto the regional supervisor's hat.

Much of our free time was spent catching, smoking, and canning the

salmon that came up the streams to spawn. With the exception of the rain, which we soon became used to, the climate was perfect with the temperature in the low 70's, and several scorchers when the mercury hit 86. All the trials and tribulations of the job were repaid many times over by the majestic senery, supreme fishing, and the good meals from the cook shack.

The Seniors' Spring Semester Siesta

by

GRAHAM MOORE

For fifty-four seniors in the School of Forest Management at N. C. State College, the 1962 spring semester was the last one. It was the semester in which we were supposed to jell all of our previous three-and-one half year's learning. To help the jelling process along, the professors assigned us a small cruising job at the Hope Valley Forest. We were divided into four-man crews, and each crew cruised a part of the forest. Some of the crews needed boats to do their cruising, but since they couldn't get boats, they made fish and turtle counts instead. I am not sure that I would want to buy Hope Valley Forest on the basis of the senior's cruise data, but we had fun roaming the fields looking for arrowheads.

The cruising job was just one of the things that the profs planned for us. We made trips to South Carolina, Virginia, Bladen Lakes, lovely Hofmann Forest, and other forester's resorts. We also took a few courses on campus. Dr. Miller tried to teach us something about cutting cycles, regeneration, pruning, thinning, and other practices in silviculture. In answer to a fellow classmate's question, we learned from Dr. Miller that wind doesn't affect airplanes as it does trees because trees aren't made to fly.

In forest management, Dr. Bryant did a good job of proving to us that we knew very little about the subject. In fact, most of us scored very lightly on the first test. (A low score of 30 won the pool in which some twenty individuals entered. What did you do with the money, Caldwell?) All hope is not lost, though, because Dr. Bryant left us with the knowledge that foresters might make good shoe salesmen, and I guess everyone will always wear shoes. Dr. Bryant didn't always ask hard questions, though, and occasionally he gave us some answers.

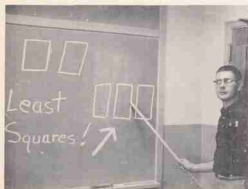
Photogrammetry was an interesting, but difficult, course. Later in life, it will surely prove very valuable. A few of our more crosseyed students seemed to have a hard time seeing stereo, but once a person learned how, amazing sights were to be seen.

Alas, I believe some of our fellow students were fortunate enough to have Dr. Perry's silvics course in the spring. If I can remember correctly, they learned some strange and wonderful things about forest genetics. For example, a cross of a wall-eyed, bowlegged, mean, and ugly man with a blond, sweet, pretty, and nice girl resulted in a sonderegger pine.

All in all, the spring semester was pretty enlightening, and if my observations are correct, no one did much hard studying. At the time of this writing, very few boys had jobs. As a result, there should be a flood of application letters to the local shoe companies. Of course, dear old Uncle Sam is coming to the rescue of a few of the more fortunate individuals.

A G. M. Production

Random Shots



Tom's method of Least Squares



Single student



Tryout for M & O!



Married student



NOTA BENE: "Bruin-snatching better than Swilling Suds?"



Will it bite?



Who did it Manning?



Jimmy floaters



Enos?



No, Chandler Eakes!



ZX# . . . **&%€#



A Lodge patient



land management, timber sales



administration, personnel relations



conservation, public relations

Today's Forester

Building the Future

Unlike his predecessor in the woods, whose job began and ended with "fighting fire and logging the mill," today's industrial forester is a man of many responsibilities and a manager in the truest sense of the word.

In addition to planting, growing, protecting and harvesting continuous crops of trees over vast areas, the *modern forester* is also charged with the purchase and sale of land and timber, labor relations, wildlife management and the development of recreational sites.

As an expert in the wise utilization of our natural resources, he is often called upon to share this knowledge with others. The time he spends in the public interest, promoting conservation and good forest management, helps build a brighter future and a better standard of living for us all.

That he performs so many tasks so well is a tribute to the forestry schools of the nation, and to the caliber of man attracted by the challenge of growing trees for a growing America. We are proud to have more than 300 such men managing our southern woodlands.



INTERNATIONAL PAPER

Southern Kraft Division



**ASTEN
DRYER
FELTS**

"ECONOMY IN THE LONG RUN"

ASTEN-HILL MFG. CO.

Philadelphia 29, Pa.
Walterboro, S. C.
Salem, Ore.
Astens-Hill Limited
Valleyfield, Quebec

Materials & Supplies

HOWERTON SUPPLY COMPANY

MADISON, FLORIDA

Forestry Consulting—Timber Marketing

Compliments of

THE CAPITAL COCA-COLA BOTTLING CO.

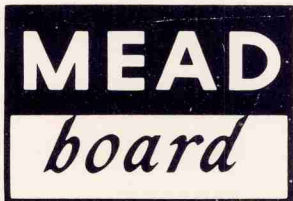
Raleigh, N. C.

*King
Size*

*Regular
Size*

THE MEAD CORPORATION

"Paper Makers To America"



ESTABLISHED 1846

THE SYLVA DIVISION

SYLVA, NORTH CAROLINA

Treasurer's Report

1960-61

INCOME

170 members @ \$3.00	\$510.00
Contributions Hofmann Portrait	102.00
Contributions Slocum Fund	205.00
	<hr/>
Total	\$817.00

EXPENSE

Postage, annual letter and PINETUM	\$ 70.00
Secretarial Help, Alumni Roster and news	20.00
170 copies PINETUM @ \$1.40	249.20
	<hr/>
Total	\$339.20

\$510.00
339.20

BALANCE \$170.80

DISTRIBUTION OF BALANCE

Hofmann Loan Fund	\$121.78
Hofmann Portrait	49.02
	<hr/>
	\$170.80

STATEMENT OF ACCOUNTS:

Hofmann Loan Fund	\$2500.00
Slocum Fund (Prior balance \$478.82)	683.73
Hofmann Portrait (total disbursed)	00.00

Alumni Section



Hofmann Portrait

The forestry alumni of North Carolina State College have presented to the college a portrait of Dr. J. V. Hofmann, former director of the college's School of Forestry.

The presentation was made at the Hill Forest with a request by the alumni group that the portrait be hung in the main forestry building at State College in honor of former head of the Forestry School.

G. E. Jackson of Washington, N. C., president of the alumni association, made the presentation, and Dr. Hofmann's grandson, Jimmie, did the honors of unveiling the portrait.

Jackson, speaking at the unveiling, said that no other individual has "had more influence on forestry in North Carolina than has Dr. Hofmann. North Carolina has been made a better place to live, work and play because he came our way in 1929."

The portrait was financed through funds contributed by members of the alumni group. The painting was completed by Mrs. Mildred McMillan Rumley of Washington, N. C.

Dr. Hofmann came to North Carolina in 1929 and began what is now the Forestry School at State College. Soon thereafter he started a program of land acquisition on a self-liquidation basis in order that the Forestry School would have an adequate forestry program.

An 80,000 acre tract in Onslow and Jones Counties is named in honor of Dr. Hofmann.

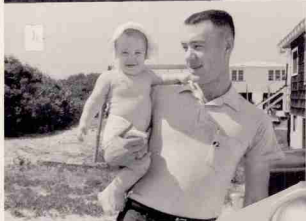
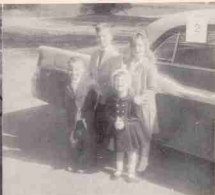
In 1948 Dr. Hofmann retired from his duties at State College only to take on other positions as treasurer-manager of the lands of the North Carolina Forestry Foundation.

Just this year the University of Minnesota conferred on Dr. Hofmann the honor of being the outstanding alumnus of that institution for 1961.



CLASS OF 1931

Top Row (L-R)—J. O. Artman, J. S. Cartwright, C. F. Phelps
 Second Row (L-R)—W. T. Buhrman, C. H. Shafer, D. B. Griffin
 Third Row (L-R)—N. B. Alter, H. J. Loughhead, H. A. Foreman, W. B. Ward



1. James J. Dee and son—1950
2. Back—Kirk and Jane Waring
Front—Walter and El'zabeth
Doug House's children—1947
3. "The Pacified Forester"—Jack Kelley—1957
4. Karen and John Tester—1955
5. "The Masten Crew"—James C. Masten—1951
6. Debbie—1957

N. C. State Alumnus Named Man of the Year in Forestry

Robert W. Graeber was presented with the Man of the Year in Forestry Award. This award was presented by Dr. J. V. Hofmann on behalf of the Society of American Foresters to Graeber for achievements in bringing forestry to the people of the state.

Mr. Graeber was born in Rowan County, North Carolina, and is a graduate of N. C. State College. He graduated with high honors in the class of 1911.

After graduation, he was employed as a County Agent in North and South Carolina from 1911 to 1920. He was a pioneer in interesting people in conserving their soil and introduced many procedures that have proven very effective up to the present time. He taught them terracing to prevent erosion; to use better seed; to improve the land with fertilizer; and general farming conditions. He was always looking ahead and began to interest the people in growing trees along with their farm program.

In 1925, he was appointed as Extension Forester with headquarters at State College in North Carolina. He worked with the County Agents and through them with farmers of the state, developing a program of better farm management, timber thinning, and forest planting in each of the one hundred counties in the state. He established monuments such as the complete planning of all waste lands in Clay County and in the John's Creek section of Jackson County where all eroded acres have been tied down with growing trees. He established more than 200 demonstration acres of how to handle timber on the farm wood lots.

In 1928, when the Board of Trustees decided to establish a School of Forestry at N. C. State College, he assisted in the selection of a man to head this department; and that is where Dr. Hofmann had the pleasure and opportunity of meeting him. Mr. Graeber escorted Dr. Hofmann around the state to let him get a better idea of the forestry conditions in North Carolina.

When the School of Forestry was established in 1929, Mr. Graeber registered in the first class and received his B.S.F. in 1930.

Mr. Graeber has trained County Agents to render practical assistance to farmers in all phases of Forestry. He knows how to contact farmers and interest them in the program work that he was trying to establish. When he retired from active duty in 1949, after 38½ years of public service, he left a smooth working organization with 7 assistant extension foresters. Since retiring, he has kept busy on some consulting work and operating and developing his own timber lands in Guilford and Wake Counties.

Mr. Graeber is a member of the Society of American Foresters, a director of the Forest Farmers Association, a director and treasurer of the North Carolina Forestry Association, the Executives Club of Raleigh, and the Capital Grange.

Alumni News

1930

- HOWARD, H. E., U. S. Forest Service, Personnel Officer, Washington, D. C.
"No change in job or number of grandchildren. Sorry I'm late with this."
MORRIS, D. J., Chief, Mensuration & Planning, USDA, Washington, D. C.
"Enjoyed your report of such substantial progress and rosey picture of the future."

1931

- ARTMAN, J. O., Staff Forester, Tennessee Valley Authority
"I've started collecting photos of 1931 grads. Hope to have a good representation to send you for the 1962 Pinetum. By the way, what's the dead line?"
CARTWRIGHT, James B., Forester, Cooperative Forest Protection, USFS
LOUGHEAD, Harvey J., Consulting Forester, Self-Employed
"No news."
PHELPS, Chester F., Executive Director, Va. Commission of Game & Inland Fisheries.
"Would be real glad to see any of the fellows I knew if and when they come through Richmond. This includes a fattening lunch?"

1932

- COOPER, William E., Executive Director, Va. Forests, Inc.
"I enjoyed your news letter very much, and want to congratulate you on your style. I wish you all luck."
MAXWELL, Albert H., Pest Control Project Forester, N. C. Div. of Forestry
SCHAEFFER, George K., Lands Branch Chief, R-8, USFS
"New home, son in Antarctic, daughter started at Emory University."
TILLMAN, P. W., Assistant State Forester, N. C. Dept. of Conser. & Devel., Forestry Div.
WILLIAMS, Jr., Luther, Owner, "Williams Gun & Saw Shop"
"Well you have been asking for remarks and pictures for so long that I thought I would send you a few. I am sending these to show some of the older alumni what we do around here for past time. It is lots of fun and I can recommend it to those that need something to keep them on their toes. You see the idea is when we go bear hunting to catch them and bring them back alive instead of shooting them. You get more of a kick out of it that way and it teaches cooperation among the ones taking part for there isn't much room for mistakes after you get ropes on the bear. The idea is to get two ropes on the bear at the same time because just one rope on the gentleman isn't too good to work with. After two ropes are around his neck then you can make the change of putting chains on and taking the ropes off. With two chains fastened around his neck you can proceed to lead him out of the woods. Several good men on one chain leading and several on the rear chain to hold him in check and drive him when he wants to sulk. Tell all the fellows to try this some time and see if they don't like it better than sitting around drinking beer. Helps keep the waist line down too."

1933

- HAFER, A. B., Consulting Forester, Self-Employed
"N. C. State Foresters are getting so plentiful they may soon have an open season on them—don't know what bag limit to recommend. We still need more men in the woods, but occasionally I trip over one sleeping in the shade."

1934

- CROW, A. Bigler, Associate Professor of Forestry, Louisiana State University
"Warren Thompson, Ph.D. 1961, has the office right next to mine here in the School of Forestry at LSU."
SMITH, Walton R., Chief, Div. For. Utilization Research, S. E. Forest Exp. Sta.
"I'm sure that I share the feelings of most of the alumni in expressing pleasure and satisfaction with the growth, progress, and stature of the School of Forestry. More important that the new buildings and expanded staff is the record being made by recent graduates—the best tribute to any school."

1935

- BRYAN, Mackay B., Forestry Advisor, USOM-Philippines
"The family and I are on a 2 year assignment to the Philippines. The Philippines would be hard to beat for a pleasant and interesting place to work. There are lots of things to see and you can't help liking the Filipinos."
HOOD, William W., Forest Manager, Camp Blanding, Military Dept., State of Florida
"Cleaned out a catch-all desk drawer and guess what I found—I'm only 'bout 5 months late with this!"
JACKSON, Gorham Eddie, Consulting Forester, Self-Employed
"We should all congratulate Dr. Maki for the very good report he has written for our information about the Forestry School and Faculty at N. C. State College. The field of a consulting forester is more interesting each year. There is more information being released about our woodland that needs to be applied to our forest. Those of us that are "Old Grads" have a chance to look around us and see the result of some of our labor. It was our pleasure during the summer to have Charlie Pettit, Walt Smith and their families and Dr. and Mrs. Hofmann visit with us here on the beautiful Pamlico River. Inez and Margaret join with me in sending our best regards to all the alumni, students and faculty of the Forestry School."
PAGE, Rufus H., Asst. Chief, Div. of Forest Utilization Research.
"Oldest of five may enroll NCSC School of Forestry Next year."
PIPPIN, James A., District Forester, N. C. Dept. of Conservation & Development

1936

- AIKER, W. C., Woodland Conservationist Soil Cons. Service, USDA
 "I still can't get use to starting this letter to anyone but Slocum and I guess I never will—he did it for so long. Timber and pulpwood are having a setback here."
- HUDSON, Seaman, Foreign Division, Container Corp. of America.
 "My field is now South America. The challenges are inspiring; the satisfaction, great."
- UTLEY, William H., President, Vice President, etc., Consulting Forester
 "With all the fancy verbage that preceded this attachment, I hesitate to advertise my shortcomings with the only foreign language to which I was ever exposed—English. 'What a horrible thought,' Doing business at the same old stand. Haven't missed any meals yet—it has been close a few times. Come on down, the water is fine."

1937

- BRIDGES, Jr., William J., Director of Woodlands, Union Bag-Camp Paper Corp.
 DAVIS, Paul L., Manager, The L. N. Davis Co.
 GASH, Dan, District Supervisor, International Paper Co.
 GERLOCK, Amil J., Real Estate Broker, Self-Employed
 "We have 3 in College now."
 HOWERTON, Jr., T. M., Self-Employed, Howerton Supply Co.
 MAYFIELD, Frank D., Forester, USFS
 WHEELER, Jr., Witt, Land Agt., Carolina Power & Light Co.

1938

- HENRY, Milton, Owner-Manager, Pulpwood Producers Co.
 HUBBARD, J. B., Administrative Forester, N. C. Forest Service
 SMITH, Jr., George E., Woodland Conservationist, USDA
 WATTS, Norbert B., Director of Student Housing, N. C. State College
 "Vote yes on Nov. 7—one-half of a much needed appropriation for a 9 story dormitory depends upon approval of this bond issue."

1939

- BARKER, Jr., J. S., Chief Forester, Corbett Package Co., Corbett Lumber Corp. and Southern Box and Plywood Co.
 BEASLEY, Jr., W. L., Owner, Beasley Lumber Products
 FRYE, Jr., Joseph T., President & Gen. Mgr., Athens Bed Co.
 WRIGHT, Chester N., Owner, Wright's Pulpwood Agency

1940

- BRAKE, Ralph W., Inspector General, U. S. Army
 GIBBONS, William E., Wood Procurement Supt., Tenn. River Pulp & Paper Co.
 "Everything going well. Haven't run out of wood so far. Regards to all."
 HARLEY, Ben R., General Manager, Turnell & Morgan Pulpwood Dealers
 LEE, Ralph K.
 "No change!"
 NEGRO, John F., Soil Conservationist, USDA

1941

- HARRIS, T. G., Wood Manager, Halifax Paper Company, Inc.
 TRAYLOR, Don F., Owner & Operator Red Springs Lumber & Chip Co.
 "Am always interested in our Forestry School. In talking with Mr. C. H. Niederhof of West Va. Pulp & Paper Co., Charleston, S. C., he commented that his son was a freshman in our School; that he considered it a very good one. I know the school is very much improved over the years I attended, but we enjoyed those days and feel we picked up a few things. Actually I could not support my family on my salary, so for this reason I went into the lumber business. I'm still looking for a 'Gentleman's Forester's' job! My regards to everyone."
 WIGGINS, Jr., John E., Forester for N. C., Soil Conservation Service, USDA
 "Perhaps this is better late than never!"

1942

- FRUITT, Austin A., District Manager, Champion Paper, Inc.
 "Same old stand, doing the same things, only better I hope. We're cutting a lot of wood—both pulpwood and sawtimber. Right now involved in reinventorying all our Georgia lands. Quite a job. Hey to all the '42 gang. We sure don't see many State boys down in this area. Hunting and fishing still good in this country. Deer and turkey beginning to multiply quite rapidly."

1943

- ETHERIDGE, Jim, Self-Employed, Pulpwood Dealer

1944

- HOLCOMBE, Robert A., Editor, Technical Publications, National Lumber Manufacturers Assoc.
 "Another year gone by and still haven't seen my old buddies at Raleigh. Really appreciated the newsy letter about the school and its plans, which I hope will be fulfilled. If you want to see a terrific new building come up to Washington and tour our new Forest Industries Building. Regards to all."

1947

- HARDEE, Clay H., Forestry Advisor, Administration of International Development, USOM
 HOUSE, Douglas T., Pulpwood Dealer
 SCHREYER, Jr., Charles E., Vice-President, Charles E. Schreyer & Son, Inc.
 "No change, just getting older;"

1948

BLACKSTOCK, Clarence E., Forester, USFS

"Was detailed to Hawaii for 6 months of this year. I have traveled extensively during my 2½ years with the Forest Service."

BOYETTE, Richard C., Plant Manager, Plywood Division, Williams Furniture Corp.

"Nothing unusual to report. Have one wife, two boys, one dog and a king size house mortgage. All these items seem to be included in most of the families nowadays."

FRANKLIN, B. D., Instructor, Civil Eng. Dept., A & M College of Texas

"Your newsletter was interesting and very much appreciated."

ICARD, Thomas F., Senior partner of law firm—Icard, Merrill, Cullis & Timm

SMITH, Lewis J., District Ranger, USFS

"I had a pleasant visit with Dr. Maki and Dr. Kaufman (Florida) when they toured the Ozard National Forest with Dean of Southern Forestry Schools Tour this past summer."

SOLOW, Robert L., General Manager, Allegheny Lumber Co., Plywood Div.

1949

ALTMAN, James A., Forest Engineer, American Pulpwood Association

ALVIS, Richard J., Soil Scientist, USFS

BOYCE, Stephen G., Research Forester, USFS

GEDDES, R. B., Assistant District Forester, Fire Control, Va. Division of Forestry

HASELL, Jr., T. M., District Supervisor, Cape Fear Dist., International Paper Co.

"Busy!"

SALZMAN, Franklin, Washington Office Personnel Officer, USFS

"Taking my son to see State whip Maryland Nov. 11—hope we do it big."

WILSON, A. D., Forester, Wytheville Sub-District, Va. Div. of Forestry

WYNNE, Tom, Area Supervisor, Wood Procurement, Champion Paper & Fibre Co.

YANCEY, Thomas E., Assistant District Forester, Forest Fire Control, Va. Div. of For.

"Same place, same job with additional duties."

1950

APPLEBY, PHILLIP E., Capt., USAF

BAREFOOT, Aldos C., Asst. Prof. of Forest Utilization, N. C. State College

"It's good to be back, but we miss the fun we had overseas, too."

BOYETTE, Robert E., Asst. Area Mgr., Riegel Paper Corp.

"No news is good news."

CAVANAUGH, Martyn, District Mgr., Champion Paper & Fibre Co.

DEE, James J., Airline Pilot, American Airlines

GREEN, Horace J., Pest Control Forester, N. C. Div. of Forestry

HARE, R. J., Wood Procurement Supt., Halifax Paper Company

LAMPE, John G., Plant Layout Engineer, Poinsett Lumber & Manufacturing Co.

"I am doing Plant Layout work for the Cabinetwork division of the Singer Manufacturing Company. My work is quite interesting and has taken me to several foreign countries where Singer is planning woodworking plants. Our most recent project covers the modernization of the Singer Cabinetwork Plant in Scotland. Best wishes to all my 1950 classmates."

PADGETT, James R., District Ranger, Leaf River Ranger District, USFS

PASCHAL, William J., Partner, Paschal Lumber Co.

PIERCE, William L., District Fire Chief, Va. Div. of Forestry

"We added a girl to the family in June to go along with our boy 4 years old."

RHYNE, Jr., Thomas S., Regional Forester, N. C. Dept. C & D, Div. of Forestry

SISSON, John W., Forester, Continental Can Co., Inc.

WILLIS, Thomas L., Sales Representative, Jacksonville Paper Co.

1951

COUSINS, Charles, Lea Lumber & Plywood Corp.

"Am still with Lea Lumber and Plywood Corp. in Windsor. The company has closed its lumber operation and expanded the plywood division—so I stay quite busy. We would like for you to stop by and see us whenever you are in this area."

ETCHISON, Philip B., Right-of-Way Acquisition, Monongahela National Forest, USFS

ESTEP, Eldon M., Forest Products Technologist, Pacific Northwest Forest, USFS

"Finished the MF in Forest Products at Univ. of Washington in March 1961. Rejoined USFS in Forest Utilization Research Division of PNW Exp. Sta. Work is varied and challenging—thoroughly enjoyed it."

JERVEY, A. P., Consulting Forester, Self-Employed

MASTEN, James C., Manager, Acme Wood Corp.

"All of us are proud of continued growth and Academic achievements of the School of Forestry."

REID, Jr., James R., Prospecting Engineer, Superior Stone Company.

SHILLING, Robert E., Unit Forester, International Paper Co.

1952

CROOK, Jr., James D., Asst. Forest Engineer, Hiwassee Land Company

DORWARD, R. E., Nurserymen, Hiwassee Land Company

HARRIS, Jr., H. G., Asst. Regional Forester, N. C. Div. of Forestry

"Have become a father and moved back close to home since I last answered the annual appeal."

HUGHES, Samuel M., Conservation Forester, Pulp and Paperboard Division, Riegel Paper Co.

"Thanks for your thinly disguised dun for dues and herewith as per the enclosed note of credit on my account with a local capitalist organization you may remove my name from the vast amorphous, inarticulate, Moribund, segment of last year. I hope your

words will have a like effect upon others in the type description. I enjoyed our brief conversation in New Orleans last Spring, and am sorry I did not discover you and Dr. Kelman on the same plane prior to our arrival in the big city. Glad to see from your letter that you did make it back to the hallowed walls. No startling news to proclaim. Have managed to keep my head above water down here in the swamps and thoroughly enjoy the work I am doing. Manage to get around to other areas a little more than in the past and have seen a few of the boys I hadn't seen in 9 years, more or less."

JACKSON, John V., Asst. District Forester, Forest Fire Control, Va. Div. of Forestry.
PERONI, George P., Instructor, Forestry Dept., Paul Smith's College.

PHELPS, Robert B., Research Forester, USFS

"One wife, one boy, one girl, and me!"

RENS, Robert G., Asst. Post Forester, Dept. of Army, Ft. Jackson, S. C.

"I'm still at Fort Jackson trying to convert the high ground from scrub oak to pine and the bottom land from gum to yellow poplar; both are proving very difficult but with an under cutter and a hardwood pulpwood market, we are gradually getting the desired results. We will complete our first cutting cycle in 3½ years; still trying direct seeding with limited success; tried sawtimber sales by weight, but found it somewhat like selling butter by the dozen."

TATE, Jr., Hugh A., Asst. District Forester, NCES

1953

ADAMS, Philip W., Land Bank Appraiser, Federal Land Bank of Columbia.

BENNETT, Joseph W., Asst. District Forester, Hiwassee Land Co.

1954

ANDERSON, Jim, Cooperative Forester, Halifax Paper Co.

ARNOLD, Thurston W., District Forester, N. C. Div., Weyerhaeuser Co.

"Still in Management in S. E. North Carolina."

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

"Still talking away in the classroom, and talking my way out of marriage—haven't been hooked yet! Happy to hear of all the improvements. I hope you get the new building."

LALICH, B. F. P. Co., Harbel, Liberia

NICHOLSON, John E., Asst. District Forester, N. C. F. S.

"A little girl has been added to the family."

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

WELLS, Joe J., Asst. Area Manager, Champion Paper & Fibre Co.

WRIGHT, Jr., Ernest B., Asst. District Ranger, USFS

"We now have two boys—David 6 years and Donald 6 months."

1955

CHAPMAN, John F., Timber Management Asst., USFS

"See a few N. C. State characters every once in a while."

COBB, Jr., Fields W., Graduate Research Asst., Dept. of Botany & Plant Pathology, Pennsylvania State University.

"A new member of the family, David Fields, was born November 3, 1951. They say he looks just like his father, bald head and all. Wife and little sister, Cindie are also doing well. I hope to finish my graduate work here soon; then maybe we can move back to the great South again."

FLOWERS, E. D., Forester, Land Department, Union Bag-Camp Paper Corp.

HARDY, Jr., P. L., Pulpwood Dealer and Consulting Forester, Self-Employed.

"Still in the woods, single, and as a matter of fact not much changed from 1955."

LARKEY, Bobby J., District Ranger, USFS

McCORMICK, Robert A., U. S. Army

"Thanks to all concerned for the very interesting letter dated September 25. Dr. Maki—what is salesmanship! Congratulations on obtaining \$3.00 from a tightwad Scotsman. Hope the bond election vote is favorable."

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

RAND, Leroy F., Wood Technologist, Fla. Furniture Ind., Inc.

TEKEL, Joseph E., Asst. Ranger, USFS

"Best regards to the faculty and all of my former classmates. It's great to hear that the School of Forestry is growing so rapidly."

TESTER, John W., Staff Technician, Development Work, Container Corporation of America
"Lois and I now have a daughter, Karen, who is the typical 'heller and angel'. We sure would like to hear from our old friends like Huxster, Dallery, and 'Pat' Wilson."

1956

DOZIER, William B., Consulting Forester, Self-Employed

"Still one wife, one son, one dog."

HORTON, D. Wilson, Forester, S. C. State Comm. of Forestry.

"Back in the swamps, again!"

KILIAN, Jr., Leonard A., District Forester, Whiteville District, USFS

"Well, back in Southeastern North Carolina again! I am finding fire control quite different from planting trees in gullies for erosion control."

MILLER, Jr., Robert J., Student, School of Forestry, Yale University

"Three bucks are sure hard to come by up here in Yankeeeland. I am really enjoying Yale, but I'm having difficulty adjusting to the urban Northeast."

WEBB, Jr., James E., Classification Asst., Div. of Personnel Mgt., USFS

1957

GIBBS, George S., Asst. District Ranger, USFS

"#2 Son, Donald Matthew Gibbs, born August 30, 1961. All's well with the Gibbs' in Florida, but am looking for some new scenery. Don't anticipate a move anytime

soon but am hoping for a change to the mountains next. Keep up the good work on the 'Pinetum.' Always like to hear news from 'State' and the old gang. Hello to all."

HUDSON, Jr., Sam T., County Forester, Franklin & Grand Isle Co., State of Vermont

KELLY, Jack Stewart, Assit. District Ranger, USFS

"Still here in God's most beautiful country and enjoying every minute of it."

NORWOOD, Ronald G., Assit. Forest Manager, N. C. Prison Dept., Raleigh

PICKENHEIM, Paul J., Assit. District Ranger, USFS

"Doesn't seem to be much of anything new with me this year—still at Whitehall, Mont., in with the sheep herders. Our young one is getting bigger and more mischievous with each passing day. I like the new cover look of the Pinetum very much—if we don't advertise our business, who will?"

STEVENS, Wilbur R., Assit. Area Manager, Riegel Paper Corp.

STEVENSON, James C., Clemson, S. C.

TIGHS, Richard R., H. R. Davis Co.

WEBB, Charles D., Graduate Research Assit., N. C. State College, School of Forestry.

"Still in school—4 years undergraduate and 4 years graduate is almost too much, even at a good school."

WHITE, Jr., Miles J., Forester, Union Bag-Camp Paper Corp.

"Am now in my new home with a new baby girl. Have moved to the country and enjoy this country living. I am learning all the time and trying to get a better knowledge of forestry." Hope to see some of my classmates when we have a reunion next year."

1958

BARDEN, Edward W., Supervisor, Finishing & Manufacturing, U. S. Plywood Corp.

"Glad to be back in good ole Va. Also closer to that Moribund segment of 'no-handed', non communicative group known as N. C. State College School of Forestry Alumni. Looking forward to conducting a \$10.00 tour for visiting N. C. State students (and Prof. Carter) through our modern plant."

DeCOSTE, John H., Agriculturist, U. S. Rubber Sumatra Plantations, Kisaran, Indonesia

"I was most happy to read by your news-letter that the Forestry School is still making outstanding progress as a leader of forestry education. I hope that you received the money for the new general forestry building in the special bond election. We—Mary Ann, Jennifer and I, spent my two-weeks local leave enjoying the bright lights of Singapore, a very modern and interesting city. My tour is more than half over, and when it is done, it is back to the U. S. for us where I think we'll stay. I want very much to work on my Doctoral degree, and then possibly go into teaching. Our best wishes to all."

DONEGAN, Al, Forester, Va. Div. of Forestry

"Not too much progress to report, would like to hear from some of the class of '58."

EARLE, Jr., T. W., Land Manager, Canal Wood Corp.

"Jefferson Harris Earle arrived Sept. 30, 1961."

GURGANUS, R. F., Elizabethton, Tenn.

"I've been wondering how things are at School. I surely would like to hear about Prof. Bryant's trip, know he had a fine time. I enjoyed the Rolleo this past year and was glad I was able to attend. Give the fellows, Dr. Maki, Dr. Bryant and the others my regards."

HILBOURN, T. O., Forester, No. Carolina Pulp Co.

HILLS, Charles C., Consulting Forester, Self-Employed

O'QUINN, Charles, Timber Buyer, W. Va. Pulp and Paper.

ROBERTS, James P., Investment Broker, Baker, Weeks & Co.

SAWYER, Jr., George E. J., Area Forester, Continental Can Company, Inc.

"Married the former Judy Anne Swift of Hopewell, Va."

THORP, Erich C., Construction Superintendent, Lane Construction Co.

"Married—Sept. 9, 1961."

WOOD, Thomas B., Service Forester, Va. Div. of Forestry.

1959

CAPPS, Weldon C., Field Forester, Halifax Paper Co.

"We are all in top shape here, still three of us. It's good to see our Forestry School continuing its growth and expansion."

DAVIS, Thomas Paul, Cleveland County Forester, N. C. Dept. of Conser. & Devel.

DODGE, J. Oliver C., Graduate Student, N. C. State College.

"Am enjoying my job here at the Experimental Forest, but I am planning on entering N. C. State in Feb. to do work in Wildlife. Hope to see you then."

FREEMAN, Wray, CFM Forester, S. C. State Commission of Forestry

"Very little news. Bob Simmons and I are no longer in the same district. He is project Forester at Lancaster, S. C."

GREGG, Stewart W., Forest Manager, Rome Kraft Co.

"Glad to hear the good news of progress at State and the School of Forestry. We visited Raleigh while on vacation in September but didn't get to see any of the faculty except Prof. Carter. I attended the N. C. State—Alabama football game at Tuscaloosa with Jack Sturgill and Roy Leach. Have planned also to see the State—Clemson game. Hope to see some of you there. I am now located 80 miles SW of Atlanta, where I am blessed with managing 33,000 acres of Company timberland. I am getting a good variety of work."

HOWARD, Jr., Arthur L., Manager, Moores Wholesale.

LENNON, Tom, Forester, Recreation Planner, USFS

"Dr. Maki, your final pitch was the best done job I've ever seen, you should have been a preacher. Sounds as if the 'Bleeding Hearts of Old West Raleigh Mater, Alma,' are going great guns."

- LUPOLD, Hugh M., Consulting Forester, Milliken Forestry Co.
 "Enjoy work, getting married in June, and hope you get the new forestry school building soon."
- McNATT, James Dobbin, Graduate Assiat., Michigan State University
 "It is pretty definite that I will begin work at the Forest Products Lab in Madison the first of the coming year (Jan. '62). I will be classified as an engineer and will be working in the Physics and Engineering Division. I almost got caught last spring, but as yet I'm still single."
- SCANLON, III, David H., Botanical Research Dept., Firestone Plantation Company
 "There are three other alumni here on the Plantations, Jim Gandy ('49), Brownie Lalich ('54), and Muri Seagle ('60)."
- STONECYPHER, Roy W., Graduate Student, School of Forestry, N. C. State College
 "Looks like I have found a home here. Still working on the study at Bainbridge. Hope to be through within a year. Forgot to mention last year, had an addition to the family, last June, a girl."
- STURGILL, Jack C., Rome Kraft Co., Dawsonville, Ga.
 "I am always glad to hear of the progress being made in the School of Forestry. We are finally adapting the N. C. State philosophy—Clearcut and plant—down this way."
- SUMMERVILLE, Kenneth O., Forestry Research Technician, School of Forestry, State College
- TABOR, Christopher A., Lt. (j.g.) USNR
 "I am still stationed with Attack Squadron Forty-Four at NAS JAX. It was interesting to read about our classmates in last year's issue, but I hope that the response is better this year—there were many names missing from last year's list of correspondents. I enjoyed my visit to the school earlier this month (Oct.); there have been so many changes and improvements, but the crowded conditions show the need for the new General Forestry Building. Gordon Butler ('57) was the only N. C. State graduate whom I recognized at the Southeastern SAF Meeting last Jan.; however, I met Bill Asher (MS '57) at the research center near Lake City. Last spring, Harold Freeman was at Camp Blanding with the Conclave contestants (perhaps some of you remember Harold from the time he started with us in 1955). I expect to be released from active duty next fall and I plan to return to State to study physiology and biochemistry under Dr. Perry. If any of you pass through Jacksonville, please give me a call and stop by for a visit."

1960

- BASS, John Lewis, Private consulting work, James E. Hobbs
- BRAKE, Robert, Area Forester, Chesapeake Corp. of Va.
 "Note new address—moved into new home Oct. 10, 1961. Now living in heart of Va. Pine country, but as a born 'Flat-Lander' walking down hill is not too bad if you did not have to walk up on occasion."
- BOST, Ronald M., 2/Lt., Army Intelligence, US Army
- BRAMLETT, David L., Graduate Student, N. C. State College
- BRINKLEY, Charles William, U. S. Army
- BYERLY, Richard D., Senior Forester, Rome Kraft Co.
 "Howdy!"
- CARRIGAN, Bill, Area Forester, Chesapeake Corporation of Va.
 COLLIER, Talmadge W., Assiat. Dist. Forester, N. C. State Div. of Forestry.
- HAMPTON, Forester, USFS
 "Sure am glad lady luck is still smiling on the Forestry School. Hope that buried am't in the bond issue was dug up and thrown on Western Blvd. My wife and I were blessed with a girl—Rebecca Lee in September. I have a feeling—that by the time the Pinetum hits the newsstands—my address and job will have changed. How's Hill Forest these days Prof.? Regards to all."
- HASENOEHRL, Frederick S., GS-7, Forester, U. S. F. S.
- HELMS, Alex, Richmond, Va.
- HOWELL, Julian W., Project Sale Officer, USFS
- IRVIN, Tom, Industrial Salesman, Franklin Glue Company
 "I took the big step and married Barbara L. Lambert of Pittsburgh, Pa. Aug. 26, 1961. She is a 1959 graduate of Duke Nursing School."
- LEACH, Roy E., Forest Technician, Rome Kraft Co.
- McMINN, J. W., Research Forester, Lake City Research Center, Fla.
 "Married May 27, 1961 to Eleanor Anne Marshall; am still on extended honeymoon in north Florida except for the five days each week, which I devote to silvicultural problems in the flatwood of north Fla. and South Ga. while my wife matches wits with 24 second-graders. We get together with Charlie Selden and his fiancée occasionally; otherwise, have lost touch with 'the old gang.' May journey back to the old alma mater in the near future for another scholastic exposure; good to see the progress there."
- MILLER, Robert W., Health Leakage Consultant, Health Survey Consultants, Inc.
 "Entering service within next 2 months."
- MOODY, Melvin Louis, Chemical Engineer, Riegel Paper Corp.
- SCOTT, John McClayton, U. S. Army, Germany
 "Getting married Jan. 20, 1962 in Germany to Lillian Watt of England."
- SELDON, III, Charles W., Graduate Student, Univ. of Florida
 "Have been taking course in real estate; may get into land evaluation work or eventually even teaching."
- TANNER, III, Charles A., Research Chemist, P. F. Glafelter
- THOMPSON, John R., Technical Service Engineer, Ecusta Paper Div. of Olin Mathieson Chemical Corp.
- WALLINGER, R. Scott, U. S. Navy
 "Thoroughly enjoyed the news in your letter, and I'm delighted that the long-awaited

funds for the new forestry building and facilities are about to come through. Sorry I can't make the Rolloco this year, but I hope to get down to Raleigh before too long. About a week ago I received a very interesting offer from St. Regis—sure hated to turn it down. M. F. completed in June, and joined the Navy in July. If all goes well I'll get my commission in mid November. I've applied for duty with the amphibious forces out of Norfolk, and hope to see a bit of the "MED" and maybe a side look at forests in Puerto Rico and the Islands. Regards to all."

YOUNG, Donald G., Circleville, Utah

1961

- BAKER, Jr., Junius Ora, 2nd Lt., U. S. Army
 "Lynette and I were blessed with a son, Greg, shortly after school was out. We're all doing fine and enjoying the Army. We're looking forward to 1963 when we can become practicing forester's with the USFS on the Deschutes N. F. in Bend, Oregon."
- BALL, William Roy, Professional Forester, Armstrong Cork Company
- BIZZARD, Don, Forester, Armstrong Cork Company
 "Dr. Maki, you have just been elected official 'Correspondent' for the committee on Bigger, Better Buildings on the Boulevard! Perhaps you can also break the hearts and the purse strings of the Legislature. We began our family with an energetic boy just recently. Our best we give to all. Stop in to visit when you are in this neck of Florida."
- GRIMSLEY, Daniel L., Forester, U. S. Government
- HINSON, Thomas, Chemist, Bowaters Carolina Corp.
- HOGAN, Phillip Gene, Salesman, Dixie Lumber Corp.
- LANGSTON, Jr., Edward Herman, 2nd Lt., U. S. Army
 "Naturally I wish the school all the luck in the bond election, I don't think that absentee ballots will be sent out so I will not be able to vote, but my thoughts are with you. I have been on active duty since graduation day. Oklahoma is full of forests I have found out—all steel. There are more oil wells than trees. I haven't seen a good pine in so long I have forgotten what one looks like. Good luck with this years classes."
- MACE, Samuel V., Private E-1, U. S. Army
 "Hi! Hope everyone is doing Okay. I enjoyed my 5-months stay with the Division of Forestry of Kentucky. In order to get my slate clean I am now 'RA' with the U. S. Army and plan to spend the next 3 years with the Army Security Agency."
- McPHERSON, John Patterson, Land Bank Appraiser, Federal Land Bank, Columbia, S. C.
- NICHOLS, Lyle A., Surveyor, Boyerkantz
 "To be drafted Oct. 25, 1961."
- PRECYTHE, Henry W., Service Forester, Ky. Div. of Forestry
- SCHURENBRAND, Jr., Howard, PFC, U. S. Marine Corps.
- SWIFT, Jr., Lloyd W., Coweeto Hyrolic Lab., Franklin, N. C.
- SYKES, Pat D., Purchasing Agent, Georgetown Galleries.
- SYKES, Jr., Paul W., Ensign, USNR on Active Duty
 "Still single but not for long. Plan to tie the knot sometime in the spring of 1962, the U. S. Navy willing." Paul married Joan James May 12th, 1962.
- TALLI, Abder Rahim, Graduate Student, N. C. State College
- WELLS, Garland Roy, Graduate Student, School of Forestry, Duke University

Alumni Directory

Class of 1936

W. B. Barnes	6149 Primrose Ave., Indianapolis 26, Ind.	Deceased
C. A. Bittinger		Deceased
G. K. Brown	1516 Garfield St., Laramie, Wyo.	Deceased
E. R. Chance		Deceased
T. C. Evans, M.S. '31	276 Cumberland Ave., Asheville, N. C.	
R. W. Graeber	303 Hillcrest Rd., Raleigh, N. C.	
N. R. Harding	Ga. Kraft Co., Director Wood Procurement, Route 5, Rome, Ga.	Deceased
S. G. Hille		Deceased
H. E. Howard	Apt. A-1003, River House, 1111 Army-Navy Dr., Arlington 2, Va.	
J. N. Leader	Bedford, Pennsylvania	
D. Y. Lenhart	W. Va. Pulp & Paper Co., 230 Park Ave., New York 17, N. Y.	
D. J. Morris	6957 Fort Foote Rd., Washington 23, D. C.	
R. L. Pierce, M.S. '31	851 Scott Street, Stroudsburg, Penn.	
H. G. Posey, M.S. '50	Alabama Polytechnic Inst., Auburn, Ala.	Deceased
H. A. Snyder		Deceased
J. W. Walters	Point Pleasant, Pennsylvania	
F. F. Weight	40 Jackson Ave., Middletown, N. Y.	
C. B. Zizelman	500 E. Broad St., Tamsqus, Penna.	

Class of 1931

N. B. Alter	Chattahoochee Nat'l Forest, Gainesville, Ga.	
H. E. Altman	26 Mississippi Ave., Silver Springs, Md.	
J. O. Artman	110 Hilltop Lane, Norris, Tennessee	
G. W. Barner		Deceased
J. A. Brunn	2804 Chaffin Ave., New York, New York	
W. T. Buhrman	5001 Kenwood Ave., Baltimore 6, Md.	
J. B. Cartwright	11 Dartmouth Ave., Avondale Estates, Atlanta, Ga.	

H. A. Foreman	Marshalls Creek, Pennsylvania
D. B. Griffin	Box 605, Front Royal, Va.
H. J. Loughhead	399 Vanderbilt Rd., Biltmore Station, Asheville, N. C.
C. F. Phelps	204 Lakewood Dr., Richmond 29, Va.
C. H. Shafer	233 Lehigh St., Allentown, Penna.
G. K. Slocum, M.S. '32	Decensed
W. B. Ward	15 School Lane, Springfield, Penna.

Class of 1932

W. E. Cooper	301 E. Franklin St., Richmond 19, Va.
A. A. Grumbine	411 Carriage Dr., N. E., Atlanta 5, Ga.
J. J. Kerst	Box 77, Vicksburg, Mississippi
A. H. Maxwell	305 Tate St., Morganton, N. C.
F. J. Miller	1234 Brooks Ave., Raleigh, N. C.
C. G. Royer	106 Penn Ave., Watsontown, Penna.
G. K. Schaeffer	1612 Springbrook Dr., Decatur, Ga.
P. W. Tillman	2632 St. Mary's St., Raleigh, N. C.
W. H. Warriner	U. S. Forest Service, Jackson, Mississippi
Luther Williams	Box 229, R.F.D. #1, Monroe, N. C.

Class of 1933

J. C. Binkney	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 556, Portsmouth, Va.
R. J. Seitz	825 Jackson St., Gastonia, N. C.
A. L. Setser	5358 Tally Drive, Chumblee, Ga.
R. A. Wood	18 Buckingham Court, Asheville, N. C.

Class of 1934

W. J. Barker	112 Strode Circle, Clemson, S. C.
E. E. Chatfield	Route 6, Laurel, Mississippi
B. H. Corpening	138 Shelburne Rd., Asheville, N. C.
A. B. Crow	Assoc. Prof., School of Forestry, Louisiana State University, Baton Rouge 3, Louisiana
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 594, Lenoir, N. C.
D. C. Plaster	111 Fox St., Morganton, N. C.
C. T. Prout	1802 Melrose Ave., Havertown, Penna.
A. G. Shugart	Yadkinville, N. C.
W. R. Smith	72 Hibriten Dr., Asheville, N. C.

Class of 1935

H. F. Bishop	Woodland Ave., Marion, S. C.
W. E. Boykin	Box 267, Lillington, N. C.
C. W. Comfort	USFS, Gulfport, Mississippi
F. J. Czabator	State Univ. of N. W., College of Forestry, Syracuse 10, N. Y.
L. S. Dearborn	Route #1, Box 84, Flagstaff, Arizona
O. R. Douglas	Box 1626, Station A., Anderson, S. C.
J. D. Findlay	5148 15th St., N., Arlington 4, Va.
T. B. Gardiner	4223 12th Road, S., Arlington 4, Va.
J. B. Graves	403 Court St., Talladega, Ala.
F. A. Hodnett	Box 535, Dublin, Va.
W. W. Hood	Box 7, Camp Blanding, Starke, Florida
G. E. Jackson	604 West Main St., Washington, N. C.
B. K. Kaler	Soil Conservation Service, Norwich, N. Y.
J. W. Miller	Assist. Prof. of Forestry, Univ. of Fla., Gainesville, Fla.
F. N. Newnham	USFS, Regional Office, Atlanta, Ga.
H. W. Oliver	Princeton, N. C.
R. H. Page, Jr.	P. O. Box 2570, Asheville, N. C.
J. A. Pippin	Box 664, Rockingham, N. C.
E. G. Roberts	Mississippi State College, State College, Mississippi
M. W. Shugart	S. C. S., Halifax, N. C.
J. R. Spratt	Atlantic Land Improvement Co., La Belle, Fla.
J. M. Stingley	Decensed
W. H. Stitt	Decensed
H. R. Wright	Highlands, N. C.

Class of 1936

A. G. Adman	2500 Uhl Court, Dayton, Ohio
W. C. Aiken	16 Edgewood, Selma, Ala.
L. K. Andrews	950 N. Division St., Aberdeen, Wash.
O. T. Ballentine	Decensed
R. O. Bennett	Decensed
A. H. Black	200 Third Ave., Scottsdale, Penna.
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.
O. H. James	Wallace, N. C.
C. S. Layton	Route #1, Greensboro, N. C.
L. N. Massey	2900 Claremont Rd., Raleigh, N. C.
A. D. Nease	Box 1339, St. Augustine, Fla.
P. M. Chat	Deceased
D. M. Parker	Sunbury, N. C.
C. C. Pettit	Box 936, Sylva, N. C.
C. H. Riley	Plensant Garden, N. C.
J. L. Senright	Deceased
M. F. Sewell	Unknown
J. H. Thornton	1035 C Street, Harrisonburg, Va.
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.	Bluffton, S. C.
Locke Craig	c/o U. S. Consultant Officer, Belem, Brazil, S. A.
J. W. Davis	Unknown
P. L. Davis	L. N. Davis Co., P. O. Box 404, Waynesville, N. C.
W. G. Davis	Sylva, N. C.
Henry Delpin	Unknown
J. M. Deyton	Green Mountain, N. C.
N. P. Edge	232 S. Franklin St., Rocky Mount, N. C.
C. A. Fox	Box 173, New Bern, N. C.
W. D. Gash	702 Princeton Dr., Wilmington, N. C.
A. J. Gerlock	Route 1, P. O. Box 137, Fairburn, Ga.
J. H. Griffin	Deceased
A. F. Hein	c/o Dr. H. Hein, James Monroe High School, Bronx, N. Y.
J. B. Heltzel	Va. Forest Service, Charlottesville, Va.
T. B. Henderson	Route 1, Box 115A, Williamsburg, Va.
J. W. Hendrix	Unknown
T. M. Howerton, Jr.	Buena Vista Farms, Madison, Fla.
E. L. Hurst	USFS, Stearns, Kentucky
Clarke Mathewson, M.S. '37	Box 405, St. Mary's Ga.
C. M. Matthews	Univ. of New Hampshire, Forestry Dept., Durham, N. H.
J. A. Matthews	Box 25, Southern Pines, N. C.
Joseph Matys	Unknown
B. H. Mayfield	Murphy, N. C.
F. D. Mayfield	1750 Boulderview Dr., S. E., Atlanta 16, Ga.
R. L. Nicholson	Unknown
H. O. Roach	Unknown
C. F. Russell	513 Nelson Dr., Jacksonville, N. C.
L. W. Spitalnik	Unknown
L. W. Troxler	224 Carriher Ave., Salisbury, N. C.
J. Walsh	265 Mission Dr., Camarillo, Calif.
W. H. Wheeler, Jr.	Box 610, Wadesboro, N. C.

Class of 1938

J. A. Belton	Unknown
H. C. Bragaw	Deceased
J. S. Campbell	RFD #2, Sedley Rd., Franklin, Va.
W. A. Campbell	1915 Wigmore St., Jacksonville, Fla.
C. J. Cheslock	Unknown
W. L. Colwell, Jr.	182 Ardith Court, Orinda, Calif.
F. 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	1004 Bragg St., Monroe, N. C.
J. W. Farrisior	Deceased
G. H. Findlay	902 Edgemont Circle, Gastonia, N. C.
G. H. Floyd	116 Pittman St., Fairmont, N. C.
W. L. Foster	W. Va. Pulp & Paper Co., Summerville, S. C.
B. Griffin	Red Oak, N. C.
P. A. Griffiths	405 Furches St., Raleigh, N. C.
R. M. Henry	2209 W. 36th St., Pine Bluff, Ark., Box 580
L. H. Hobbs	For. Ext., School of Forestry, N. C. State College, Raleigh, N. C.
A. J. Honeycutt, Jr.	1334 Oberlin Rd., Raleigh, N. C.
J. B. Hubbard	3036 Churchill Rd., Raleigh, N. C.
James L. Huff	Unknown
G. W. Hunter	525 N. East St., Raleigh, N. C.
V. V. Kaveiva	2303 Byrd St., Raleigh, N. C.
H. W. Lull	Div. of Watershed Mgt., NE For. Exp. Sta., Upper Darby, Pa.
T. J. McManis	Deceased
W. J. Marshburn	206 Surginer Rd., Rockingham, N. C.
J. P. Moorefield	Unknown
R. M. Nelson, M.F. '39	c/o Robert B. Tucker, 809 Philadelphia Ave., Chamberburg, Pa.
H. W. Ryder	11 S. Prince St., Shippensburg, Penna.
C. B. Shimer	1509 Webb St., Raleigh, N. C.

G. E. Smith	Drawer 504, USDA, Soil Cons. Service, Orangeburg, S. C.	
I. W. Smith		Unknown
P. L. Warlick	398 Vanderbilt Rd., Biltmore Forest, Asheville, N. C.	
N. B. Watts	207 Holladay Hall, N. C. State College, Raleigh, N. C.	
J. A. Whitman	Atlantic States Forestry Co., Carthage, N. C.	
W. W. Wooden		Deceased

Class of 1939

G. W. Arnott		Deceased
J. B. Bailey		Unknown
W. M. Bailey		Lynn Haven, Florida
J. S. Barker, Jr.	2406 Shirley Rd., Wilmington, N. C.	
W. L. Beasley	Beasley Lumber Products, Scotland Neck, N. C.	
A. E. Butler	2404 Glascock St., Raleigh, N. C.	
C. K. Dale		Unknown
R. L. Esterfield		Unknown
W. G. Evans	Box 323, Route #3, Wilmington, N. C.	
J. T. Frye, Jr.	365 Forest Ave., Athens, Tenn.	
C. D. Harris	P. O. Box 366, Lexington, N. C.	
H. J. Hartley	308 Bath St., Clifton Forge, Va.	
D. P. Hughes	Box 116, Colerain, N. C.	
R. S. Johnson	McNair Investment Co., Laurinburg, N. C.	
Ted Jolley	Area Forester, W. Va. Pulp & Paper Co., Wineboro, S. C.	
J. V. Lyon		Unknown
H. C. Martin		Unknown
C. L. Page		White Pond, S. C.
C. H. Peterson	Johns Manville Corp., Jarratt, Va.	
H. W. Plummer, Jr.		Unknown
Chester Reed		Unknown
J. F. Reeves	1831 Leavenworth St., Manhattan, Kansas	
H. R. Rupp		Unknown
R. W. Shelley		Deceased
R. W. Slocum	1203 Maple Ave., Richmond 26, Va.	
E. W. Smith, III	309 Daisy St., Boise, Idaho	
J. J. Steele	Box 152, Lenoir, N. C.	
H. P. Stoffregen		Deceased
I. L. Taylor	Route #1, Harrisburg, N. C.	
E. M. Walker	Box 768, Brookhaven, Mississippi	
C. N. Wright	224 McGhee Ave., Greenwood, S. C.	
P. B. Yeager		Unknown
M. M. Young		Unknown

Class of 1940

J. D. Atkins		Unknown
J. L. Bell	Box 332, Davidson, N. C.	
R. W. Brake, Col.	1127 Olney Dr., San Antonio 18, Texas	
R. L. Cain		Unknown
George Chaconas		Unknown
R. E. Davis	608 Poplar St., Canton, N. C.	
W. B. Dunn	8 Central Ave., Warren, Penna.	
T. E. Gerber	444 North Wood Ave., Florence, Ala.	
W. E. Gibbins	1120 Taylor St., Corinth, Mississippi	
B. R. Harley	Box 548, Elizabethtown, N. C.	
B. S. Hays	Dept. of C & D, Div. of Forestry, Raleigh, N. C.	
J. W. Hilton		Deceased
S. C. Ingram, Jr.	2441 Albro Blvd., Tucson 15, Arizona	
M. M. Kariman		Unknown
R. M. King	Box 1003, Concord, N. C.	
C. D. Kuhns	100 White Oak St., Kutstown, Penna.	
R. K. Lee	312 Bola Dr., Alexander, La.	
P. J. Lesier	Box 13, Wrightstown, N. J.	
M. A. Matson, Jr.	8813 Pinedale St., Norfolk 3, Va.	
J. F. Needham	329 Plyley's Lane, Chillicothe, Ohio	
J. F. Nigro	Millbrook, N. Y.	
A. A. Novitt	418 Hempstead, Long Island, N. Y.	
W. E. Odom, Jr.		Unknown
Lee Perks	54 Louisa St., Brooklyn 18, N. Y.	
L. L. Perry		Deceased
C. H. Peterson	Johns Manville, Jarrett, Va.	
Ernest Roberts		Unknown
W. O. Ryburn	Ryburn Farm Equipment Co., Salisbury, N. C.	
A. W. Simmons		Unknown
R. S. Swanson	Box 462, Newton, N. C.	

Class of 1941

P. D. Abrams	Stonehedge, North Granby, Conn.	
A. W. Brown	Forester, Biltmore Station, Draper Corp., Asheville, N. C.	
R. E. Carey		Unknown
G. V. Chamblee	Bladen Lakes State Forest, Elizabethtown, N. C.	
P. M. Cromartie	West Lumber & Box Co., P. O. Box 870, Fayetteville, N. C.	
E. H. Ericson, Jr.	Old Neck Rd., Manchester, Mass.	

C. E. Gill	911 Gracelyn Dr., Blacksburg, Va.
Michael Goral	Unknown
B. T. Griffith	216 South 23rd Ave., Hattiesburg, Mississippi
F. J. Hartman	12701 Valleywood Dr., Silver Springs, Md.
T. G. Harris	421 Rightmyer Dr., Roanoke Rapids, N. C.
R. E. Huff	Box 52, Mars Hill, N. C.
R. H. Landon	Deceased
A. L. Jolly	Virginia Forest Service
Jesse Levine	Unknown
J. E. McIver, Jr.	P. O. Box 372, Vidalia, Ga.
W. C. Picket	433 Ridgeway Ave., Statesville, N. C.
T. F. Spiker, Lt. Col.	Clarksville Base, Clarksville, Tenn.
D. P. Traylor	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	Box 111, Clinton, N. C.
Paul Gawkowski	Unknown
J. E. Hobbs	Edenton, N. C.
J. G. Hofmann	Box 145, Roanoke Rapids, N. C.
G. M. Howe	42 Normandy Place, Roselle, N. J.
H. S. Katz	11 Wisner Place, Middletown, N. Y.
E. P. Leysath	223 Lincoln Ave., Rutland, Vermont
H. S. Muller, Jr.	Box 122, Kinsale, Va.
A. E. Johnson	Camenton, N. Y.
A. A. Pruitt, Jr.	Box 283, Washington, Ga.
F. A. Santapole	Dept. of Sociology, Fordham Univ., New York 58, N. Y.
J. T. Thurner	St. Mary's, Ga.
F. D. Williams	1226 Salem, Dr., Charlotte, N. C.

Class of 1943

H. L. Epstein	36 W. McKenzie, Stockton, Calif.
J. N. Etheridge	Etheridge Land & Timber Co., Box 686, Plymouth, N. C.
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 Todd Hill Rd., Staten Island, N. Y.

Class of 1944

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

Class of 1945

J. F. Hardee	Route 7, Raleigh, North Carolina
C. M. Hartsock	N. C. State Hwy, Comm., Durham, N. C.
Henry Kaczynski	1907 Chestnut Ave., Trenton, 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	503 Pine St., Homerville, Ga.
W. S. Campbell	College Park, Staunton, Va.
Robert Dorsan	Unknown
W. J. Ellis, Jr.	Box 17, Jarrett, Va.
J. H. Hardee	USOM, American Embassy, Port Au Prince, Haiti
Norman Hodul	Box E-90-C, RFD, Holbrook Ave., Lake Ronkonkoma, N. Y.
D. T. House	Box 116, Rt. 3, Louisville, N. C.
J. B. Johnson	RD #4, Raleigh, N. C.
J. C. Jones	School of Forestry, N. C. State College, Raleigh, N. C.
W. M. Keller	School of Forestry, N. C. State College, Raleigh, N. C.
R. D. Mahone	1937 Capitol Landring Rd., Williamsburg, Va.
C. E. Schreyer, Jr.	49 Fayette Rd., Scarsdale, N. Y.
W. L. Wharton, Jr.	315 Bomar Place, Springhill Station, Mobile, Ala.

Class of 1948

C. E. Blackstock, Jr.	USFS, Trimmer Route, Saner, California
R. C. Boyette	17 Lindley Ave., Sumter, S. C.

R. N. Craven Box 755, Belmont, N. C.
 N. E. Dayvault, Major Route #1, Box 153E, Triangle, Va.
 B. D. Franklin Box 4103, Collee Station, Texas
 V. W. Herlevick 3627 Stratford Blvd., Wilmington, N. C.
 W. W. Hook, Jr. 2109 Greenway Ave., Charlotte, N. C.
 T. F. Icard 2046 Main St., Sarasota, Fla.
 S. N. McKeever Spring Creek, West Virginia
 E. N. Seltzer 135 Beech St., Concord, N. C.
 G. W. Smith, M.F. '58 Ricks Hall, N. C. State College, Raleigh, N. C.
 J. L. Smith, Jr. P. O. Box 158, Mountain View, Arkansas
 R. L. Solow 1742 South Gate Rd., Elkin, W. Va.
 Fred West 124 N. Atherton St., Apt. 5, State College, Penna.
 B. M. Zuckerman Cranberry Exp. Sta., E. Wareham, Mass.

Class of 1949

V. D. Adams Unknown
 B. L. Allen Halifax Paper Co., Roanoke Rapids, N. C.
 J. A. Altman 651 College St., Jackson, Miss.
 R. J. Alvis Watershed Mgt. B.S., F.S., Box 4137, Portland 8, Oregon
 G. W. Barnes 415 Elm St., Raleigh, N. C.
 J. C. Baskerville Route 2, Hickory, N. C.
 J. B. Bernard, Jr. Box 936, Sylva, N. C.
 R. Q. Bishop 405 Greenway Dr., Florence, S. C.
 A. W. Boswell Box 654, Battleboro, N. C.
 S. G. Boyce, M.S. '51 Ph.D. '53 Box 760, Carbondale, Illinois
 C. A. Broadway Route 2, Cander, N. C.
 E. F. Corn Dist. Forester, N.C.F.S., Rocky Mount, N. C.
 A. C. Craft Unknown
 T. S. Davis c/o J. S. Davis, Troy, N. C.
 W. C. Deaton Box 311, Southern Pines, N. C.
 G. V. Durham 1221 Barkley Rd., Charlotte, 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 Tappahannock, Va., Box 216
 W. H. Geddes 1115 W. Greenwich St., Falls Church, Va.
 J. D. Guthrie 578 W. Shudowlawn Dr., Chattanooga, Tenn.
 J. P. Harper 5125 W. Lakeside Dr., Raleigh, N. C.
 A. R. Harris Box 553, Clinton, N. C.
 T. M. Hassell, Jr. Box 1559, Wilmington, N. C.
 R. L. Horne 711 Royster St., Shelby, N. C.
 H. G. Johnson 609 Joyner St., Greensboro, N. C.
 J. F. Johnson, Jr. 3722 Stratford Blvd., Wilmington, N. C.
 W. T. Jones, M.F.W.T. '56 P. O. Box 248, Greenville, Fla.
 W. G. Kelley P. O. Box 4166, Richmond 24, Va.
 S. H. Long 306 East K Street, Newton, N. C.
 D. E. Moreland, M.S. '50 Agronomy Dept., Gardner Hall, N. C. State College,
 Ph.D. '53 Raleigh, N. C.
 E. L. Munger Box 72, South Boston, Va.
 A. P. Mustina, Jr. 2159 Merann Dr., N. E. Atlanta 6, Ga.
 L. A. Muth Stanfield, N. C.
 E. E. Nielson 7730 Stackton Ave., Pennsauken, N. J.
 R. L. Noneman 111A Robbins Rd., Sanford, N. C.
 W. R. Parham 2643 Robin Hood Rd., Roanoke, Va.
 T. W. Patton Box 572, Jacksonville, N. C.
 M. E. Pekar P. O. Box 205, Fork Union, Va.
 H. R. Powers, Jr., Ph.D. '53 SE For. Exp. Sta., Asheville, N. C.
 F. P. Probst Unknown
 Franklin Salzman 905 Potomac Ave., New Alexandria, Va.
 B. F. Smith Unknown
 W. Mc. Stanton Box 83, Rowland, N. C.
 F. M. West P. O. Box 563, North Wilkesboro, N. C.
 F. H. Whitfield 1607 Van Dyke Ave., Raleigh, N. C.
 A. D. Wilson Box 151, Wytheville, Va.
 D. K. Wilson Regional Coordinator, Minn. Div. of Forestry, Hill City, Minn.
 F. W. Woods School of Forestry, Duke University, Durham, N. C.
 O. T. Wynne 108 Oakway Court, Clemson, S. C.
 T. E. Yancey Box 198, Waverly, Va.

Class of 1950

H. W. Alexander Box 235, Murphy, N. C.
 T. C. Alexander 104 Tucker St., Burlington, N. C.
 P. E. Appleby Det. 875, V.P.I., Blacksburg, Va.
 J. C. Barber, M.S. '51 Southeast Forest Exp Sta., Macon Research Center, Macon, Ga.
 A. C. Barefoot, M.S. '51, Ph.D. '57 School of Forestry, N. C. State College, Raleigh, N. C.
 R. L. Beal International Paper Co., Brandon, Miss.
 F. W. Biddix, Jr. Spruce Pine, N. C.
 C. A. Blevins 2nd St., Knightdale, N. C.
 D. E. Bowling Forestry Dept., Masonite Corp., Laurel, Miss.
 R. E. Boyette Box 425, Rockingham, N. C.
 A. W. Bragg 2126 Sprunt, Durham, N. C.

G. P. Brank	R-1, Box 403, Weaverville, N. C.
W. R. Broadwell	Box 63, Raper, N. C.
J. R. 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.
J. F. Clayton	Box 129, West Jefferson, N. C.
L. D. Curle	Box 12, N. Wilkesboro, N. C.
W. F. Currence	Turtletown, Tenn.
H. G. Dallas, Jr.	Carolina Power & Light Co., Raleigh, N. C.
J. J. Dee	5 Bellows Lane, New City, New York
H. C. Dellinger, M.S. '51	Box 106, Quitman, Miss.
D. A. Dubow, M.S. '54	143 Fairbanks St., Hillside, N. J.
W. R. Edena	488 Pearl St., Darlington, S. C.
A. C. Edward	Box 282, Moncks Corner, S. C.
W. T. Ellison, Jr., M.S. '56	510 Pinhurst Ave., Colonial Heights, Va.
E. J. Engel	Box 309, Monticello, Ga.
J. T. Evans	Box 667, Sylva, N. C.
E. F. Finison	U.S.F.S., Leesville, La.
W. C. Furr	Unknown
J. H. Gilliam	Forestry Extension Specialist, N. C. State College, Raleigh, N. C.
T. E. Glunt	2298 Thames Dr., Redding, Calif
J. A. Gravely	321 Kins St., Brevard, N. C.
R. L. Gray	Tompkinsville, Kentucky
H. J. Green	N. C. Div. of Forestry, 408 Dry Ave., Cary, N. C.
T. S. Griffin	P. O. Box 50, Elizabeth City, N. C.
W. V. Griffin	Route 3, New Bern, N. C.
R. W. Gross	Unknown
R. J. Hare	709 Raleigh St., Roanoke Rapids, N. C.
N. M. Hicks	E. L. Bruce Co., Memphis, Tenn.
J. D. Hill	P. O. Box 1075, Rockingham, N. C.
J. C. Holland	2206 Anderson Dr., Raleigh, N. C.
K. Kaban	Newfield Dr., Stamford, Conn.
W. R. Kiser	22 Audley Lane, Glen Lennox, Chapel Hill, N. C.
R. C. Kornegay	S. 5th St., Smithfield, N. C.
J. G. Lampe	1009 Flint St., Jonesboro, Arkansas
H. A. Lockemer	4 Gladstone Rd., Asheville, N. C.
V. D. McDonald	2211 Beechridge Rd., Raleigh, N. C.
E. P. McMillan, Jr.	Unknown
F. W. Miller	112 12th St., Jeanette, Penna.
A. W. Millers	956 4th St., Dr., N. W., Hickory, N. C.
E. C. Moon	101 S. Laurel Ave., Charlotte, N. C.
M. S. Moore	2202 Hawthorne Lane, Kinston, N. C.
M. A. Mulkey	38 Southwood Dr., Pine Bluff, Ark.
C. A. Musser	2217 Dixie Trail, Raleigh, N. C.
R. C. Overby	427 Jefferson St., Roanoke Rapids, N. C.
J. R. Padgett	1504 Kathleen St., Hattiesburg, Miss.
W. J. Panchal	P. O. Box 405, Lillington, N. C.
W. W. Paylor	Box 152, Longhurst, N. C.
W. R. Phelps	United Fruit Co., Santa Maria, Columbia, S. A.
J. H. Phillips, Jr.	Box 1282, Goldsboro, N. C.
W. L. Pierce	112 Oakhill Ave., Portsmouth, Va.
J. M. Poplin	1126 Sycamore St., Rocky Mount, N. C.
D. H. Price	136 Wilson St., Chester, S. C.
L. R. Propst, Jr.	Unknown
F. R. Puckett	790 Ellis, N. E., Orangeburg, S. C.
J. R. Rankin	4506 Country Club Rd., New Bern, N. C.
B. W. Ratts	415 Raleigh Ave., Carolina Beach, N. C.
T. S. Rhyne	107 Richardson St., Whiteville, N. C.
W. R. Rickman	c/o Mrs. W. R. Rickman, Rt. 4, Franklin, N. C.
B. H. Ropeik	Unknown
J. W. Safley	1196 Newton Dr., New Bern, N. C.
W. H. Searcy	6202, Wakefield, Va.
K. B. Sexton	Unknown
M. N. Shaw, Jr.	5 Montford Park Place, Asheville, N. C.
J. W. Sisson	Route #4, Box 179 Petersburg, Va.
H. H. Smith, Capt.	164 Lynn Cove Rd., Asheville, N. C.
J. F. Spivey, Jr.	N. C. Dept of Conservation & Development, Raleigh, N. C.
H. G. Turner, Jr.	Unknown
M. A. Tuttle, Capt.	AO2226870, P. O. Box 246, 48 Taft Ftr. Hg., APO179, N. Y., N. Y.
W. A. Tuttle	Hot Springs, N. C.
A. R. Verbeck	Box 5601, State College School of Textiles, Raleigh, N. C.
L. J. Wallis, Jr.	Clinton, N. C.
M. F. Ward	Magnolia Dr., Wadesboro, N. C.
J. B. White, M.S. '50	Unknown
W. B. White	903 Nichols St., Henderson, N. C.
T. W. Whitt	P. O. Box 1113, Southern Pines, N. C.
J. M. Wilkinson, Jr.	Masonite Corp., New Augusta, Miss.
T. L. Willis	1803 High St., New Bern, N. C.

R. E. Williams 3715 Dresden Dr., E. Charlotte, N. C.
 W. H. Williams P. O. Box 83, Beaufort, N. C.

Class of 1951

J. F. Allen Unknown
 J. H. Beaman Dept. of Botany, Michigan State Univ., S. Lansing, Mich.
 D. H. Bush Box 671, Jacksonville, N. C.
 C. B. Conse, Jr. 329 Carolina Ave., N. W., Orangeburg, S. C.
 Charlie Cousins Lea Lumber Co., Windsor, N. C.
 E. M. Estep 11351 N. E. Glisan, Apt. 3, Portland 20, Oregon
 P. B. Etchinson P. O. Box 668, Elkins, W. Va.
 B. W. Gentry Troy Lumber Co., Lumberton, N. C.
 D. R. Godwin P. O. Box 264, Sanford, N. C.
 L. D. Greenwood 25 "F" St., Frostproof, Fla.
 J. T. Hance S. C. State Comm. of Forestry, Columbia, S. C.
 H. R. Hendricks W. Va. Pulp & 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 Gibbes St., Charleston, S. C.
 A. P. Jervey Walterboro, S. C.
 R. G. Jewett Deceased
 R. W. Johanson, M.S. '55 Route 3, Box 6A-2, Lake City, Fla.
 E. M. Jones Forestry Extension Specialist, N. C. State College, Raleigh, N. C.
 J. G. Luck 21 W. 6th Ave., Williamson, W. Va.
 J. C. Masten 209 E. Wyche St., Whiteville, N. C.
 R. P. Menacham Route 3 Goldsboro, N. C.
 W. P. Mitchell Box 1054, Kinston, N. C.
 R. F. Penland P. O. Box 7084, Asheville, N. C.
 J. Ralston, M.S. '55 Maryville Branch Post Office, Georgetown, S. C.
 J. R. Reid, Jr. 3465 Leonard St., Raleigh, N. C.
 J. F. Renfro, M.S. '57 103 Davison St., Brewton, Ala.
 A. C. Roane, Jr. 1208 Clay Ave., New York 56, N. Y.
 S. C. Rose 205 Hillside Ave., 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.
 A. F. Skaarup Box 390, c/o Western Electric Co., Lee's Summit, Missouri
 W. D. Shofner c/o Health Survey Consultants, 572 Washington St.,
 Wellesley 81, Mass.
 D. A. Stocker, M.F. '51 6 Prospect St., Randolph, Vt.
 C. M. Story 2329 Glascock St., Raleigh, N. C.
 T. L. Suggs 728 Athens Ave., Fayetteville, N. C.
 P. D. Sykes 320 N. Oak St., Lincolnton, N. C.
 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, M.S. '52 Butternutt, Wisconsin
 G. M. Blandchard Unknown
 H. J. Boger Laurell Lane, Black Mountain, N. C.
 J. J. Cornett Unknown
 L. A. Cramer Box 1818, Hight Point, N. C.
 J. D. Crook, Jr., M.W.T. '56 Apt. 1, 860 Ocoee St., N. E., Cleveland, Tenn.
 H. R. Garrett U.S.F.S., 1502 Evans, Newberry, S. C.
 J. E. Graham District Forester, S.C.F.S., 1111 Fair St., Newberry, S. C.
 T. J. Ginn, M.F. '52 Unknown
 H. H. Gresham, L.P.M. '53 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.
 C. A. Jackson, Jr., L.P.M. '53 Route 1, Mebane, N. C.
 J. V. Jackson, Jr. 118 W. Baker St., Charlottesville, Va.
 E. N. Jordan Tyner, N. C.
 R. Kral 1130 Paulina St., Oak Park, Ill.
 G. E. Lamb Unknown
 C. L. Lane, Jr. Butner, N. C.
 J. I. Ledbetter Box 407, Badin, N. C.
 J. L. Leroy Consultant, S. C.
 S. E. Lewis Farm Management Forester, P. O. Box 463, Montezano, Wash.
 W. K. Lusk 21 6th Ave., Williamson, W. Va.
 B. C. Meeker Unknown
 J. R. Miller Peichhold Chemicals, 1521 E. Rowland Ave., W. Covina, Calif.
 R. A. Moore, M.S. '52 State Univ. of Forestry, Syracuse 10, N. Y.
 D. M. Morrison 1917 Harper St., Newberry, S. C.
 A. L. Neilson 176 Webb Cove Rd., Asheville, N. C.
 G. P. Peroni Box 266, Paul Smith College, Paul Smith, N. Y.
 D. F. Peterson U. S. Army
 R. B. Phelps 1454 N. Beaugard St., Alexandria, Va.
 J. B. Reid Crossett Lumber Co., Crossett, Ark.
 R. G. Reynolds 6608 Eastbrook Rd., Columbia, S. C.

V. R. Ross 350 E. Main St., Marion, Va.
 H. A. Tate, Jr. 1405 Edgewood Dr., Elizabeth City, N. C.
 W. V. Tate, Jr. 608 West 5th St., Winston-Salem, N. C.
 T. G. Whippie, M.F. '52 Rt. 4, Box 123, Orangeburg, S. C.
 S. D. Wiggins, M.F. '52 800 Overbrook Dr., Thomasville, N. C.

Class of 1953

P. W. Adams 1341 Sanford Dr., Windsor, N. C.
 G. H. Atkins Middleburg, N. C.
 S. D. Bean c/o T.V.A., Clinton, Tenn.
 J. W. Bennett 884 Sunset Blvd., N. W., Gainesville, Ga.
 D. L. Brenneeman, M.F. '53 Holms State Forest Nursery, Penrose, N. C.
 E. C. Carr, Jr. Box 310, Dillon, S. C.
 K. M. Corbet, Jr. P. O. Box 251, New Bern, N. C.
 P. F. Crank, Jr. Point Harbo, N. C.
 D. M. Crutehfield 230 Park Ave., New York 17, N. Y.
 R. E. Dorward Rt. 1, Vonove, Tenn.
 R. H. Eggleston Box 97, Carthage, Tenn.
 J. D. Garman Rt. 3, Reisterstown, Md.
 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. Hocker, M.F. '53 Oyster River Rd., Durham, N. H.
 R. G. Jenkins 140 Sorrel Way, Eugene, Oregon
 F. S. Keilling Box 224, Gary, W. Va.
 E. H. McGee P. O. Box 27, Asheboro, N. C.
 H. F. Layman Reigel Paper Corp. Woodland Dept., Acme, N. C.
 Milton Noble Portsmouth, Kentucky
 Donald A. Stecker Greene, Maine
 R. H. Tait Box 695, Canton, N. C.
 O. C. Tissue, M.F. '53 Miss. For. Comm., Box 649, Jackson, Miss.
 C. E. Webb c/o Allie Webb, Demorest, Ga.
 M. E. Welch Law Bldg., Room 24, Fredericksburg, Va.
 J. C. Wessell 2628 Kilgore Ave., Raleigh, N. C.
 J. H. Wheelless Route 4, Louisburg, N. C.
 R. T. White 947 Lee Ave., Monticello, Ind.
 D. J. Wolf Unknown
 D. O. Yandle, M.S. '54 4909 Ascot Lane, Madison, Wis.

Class of 1954

H. J. Anderson 1323 Marshall St., Roanoke Rapids, N. C.
 T. W. Arnold Box 61, Rose Hill, N. C.
 J. M. Barker, Jr. Box 525, Union Point, Ga.
 J. P. Barrett Box 1192, Alexandria, La.
 W. M. Blanton Globe Parlor Furniture Co., High Point, N. C.
 R. O. Bideaux 507 Diessler Court, Meadville, Penna.
 J. C. Biggert Bryceville, Fla.
 M. B. Bryan, M.S. '54 6 Rovenna Dr., Asheville, N. C.
 J. M. Clement 1005 W. Lenoir St., Raleigh, N. C.
 J. J. Derro, Jr. 23 Hinds Rd., Winchester, Mass.
 O. J. Dutka Unknown
 J. R. Goldner Loberaft, Elkins, W. Va.
 F. R. Groves 777 S. Hebeheew Ave., Fernandina Beach, Fla.
 C. A. Hart, M.S. '54 School of Forestry, N. C. State College, Raleigh, N. C.
 Ph.D. '58
 M. L. Holmes 3425 Cheyenne Rd., Raleigh, N. C.
 S. Janczura 70 Palmer St., Falls River, Mass.
 R. B. Jordan Box 98, Mt. Gilead, N. C.
 M. S. Katana, M.S. '55 Kirkuk, Iraq
 B. G. King Apt. C-204, Franklin Garden Apts., Philadelphia, Penna.
 B. Lalich Firestone Plantations, Harbel, Liberia, West Africa
 E. B. Lane Route 3, Box 19, Washington, Ga.
 W. R. Langley, Jr. P. O. Box 885, Florence, S. C.
 A. S. Messenger 3407 W. Mt. Hope Ave., Lansing 15, Mich.
 J. E. Nicholson Rt. 2., Glenn Heights, Chapel Hill, N. C.
 J. W. Norris 304 Minturn Ave., Hamlet, N. C.
 A. E. Paetzell 4813 Oliver Rd., N. E., Roanoke, Va.
 B. B. Payne Route 3, Canton, N. C.
 L. F. Rand, M.W.T. '55 P. O. Box 385, Palm Ave., Palatka, Fla.
 C. F. Raper 2765 Gwinette Dr., Macon, Ga.
 C. J. Reis, M.S.W.T. '58 400 Lorraine Ave., Middlesex, N. J.
 W. W. Saur, M.S. '54 536 Pua de Novembro, Lavras, Minas, Brazil, S. A.
 C. S. Sewell P. O. Box 603, Madison, Fla.
 W. F. Taylor, M.W.T. '54 N. C. State College, Raleigh, N. C.
 T. L. Thrash c/o U. S. F. S., New Bern, N. C.
 J. P. Tunstall Edward, N. C.
 J. J. Wells Box 193, Rutherfordton, N. C.
 F. D. Wentworth, M.W.T. '54 9102 Waltize Rd., Fern Creek, Ky.
 B. B. White State Forester, Va. Div. of For., Box 3347, Charlottesville, Va.
 W. B. Woodrum, Jr., M.S. '54 398 E. Kentucky St., Franklin, Ind.

E. B. Wright, Jr. Ranger Station, Marblemount, Wash.
 L. H. Yost Armstrong Furniture Co., P. O. Box 646, Martinsburg, W. Va.

Class of 1955

O. G. Alfaro D.T.I.C.A., Casilla 13, 120 Santiago, Chile, S. A.
 J. M. Archer U.S.F.S., Box 7, Williamsburg, Ky.
 J. B. Brown c/o Halifax Paper Co. Maysville, N. C.
 J. F. Chapman Red Ives Ranger Station, Avery, Idaho
 F. W. Cobb, Jr. 504 Tulip Rd., State College, Penna.
 C. E. Cramer 25-47 72nd St., Jackson Heights, N. Y.
 E. L. Dallery 111 N. Harvin St. Sumter, S. C.
 E. D. Flowers Box 224, Helena, Ga.
 T. R. Frazier Unknown
 L. E. Gallup, M.S. '55 Tar Heel Wood Treating Co., Route 1, Cary, N. C.
 A. W. Gilliam, M.W.T. '58 10935 South Park, Chicago 28, Ill.
 R. H. Goslee 303 S. 8th St., Mebane, N. C.
 P. L. Hardy, Jr. Box 682, Fredericksburg, Va.
 E. L. Hiatt Box 192, Ridgeway, Va.
 N. E. Hill Apt. 2A, Marion Garden Apts., Jasper, Ala.
 W. T. Huxster, Jr. Forestry Extension Specialist, N. C. State College, Raleigh, N. C.
 P. E. Hockstra, M.S. '55 S. E. For. Exp. Sta., 1224 Harris St., Charlottesville, Va.
 R. J. Kalish Route 1, Freehold, N. J.
 D. B. King, M.W.T. '55 101 Buddin St., Easley, S. C.
 R. B. Lankford P. O. Box 202, Nashville, N. C.
 B. J. Larkey U.S.F.S., Hector, Ark.
 W. A. Larson 523 Colonial Dr., Sumter, S. C.
 T. J. Lester 308 Starling Ave., Martinsville, Va.
 E. H. McGee County Forester, P. O. Box 27, Asheboro, N. C.
 Q. A. Malmquist Post Mills, Vt.
 O. A. Manney 20 Tradd St., Charleston, S. C.
 G. B. Moulthrop 710 Pace St., Franklin, Va.
 G. H. Pierson 55 Wetmore Ave., Morristown, N. J.
 W. F. Price, M.F. '55 654 S. Rosewood, Kankakee, Ill.
 C. J. Purdy, Jr. Purdy Lumber Co., P. O. Box 551, Chester, Va.
 J. P. Robinson 511 Maple St., Jacksonville, N. C.
 J. E. Rumsissell, 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.F.S., Norton, Va.
 R. J. Thomas, M.W.T. '55 N. C. State College, Raleigh, North Carolina

Class of 1956

B. D. Barr, Jr. U.S.F.S., Greensboro, Ga.
 R. H. Beal P. O. Box 151, Gulfport, Miss.
 M. T. Brooks Tappahannock, Va.
 H. T. Caldwell 303 Hudson St., Maryville, Tenn.
 P. B. Carson, Jr. S. C. Comm. of For., Box 943, Walterboro, S. C.
 R. F. Chrismer, M.W.T. '56 317 atherine St., Easley, S. C.
 W. R. Curtis Rocky Mount Exp. Sta., Aac Campus, Flagstaff, Arz.
 G. L. Dickson, Jr. Consultant, South Carolina
 W. B. Dozier Rt. 2, Sherwood Forest, Chapel Hill, N. C.
 W. J. Groat, Jr., M.W.T. '56 Madison Hall, Port Republic, Va.
 G. Haney, M.S. '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 P. O. Box 458, Kingstree, 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 110 W. Calhoun St., Whiteville, N. C.
 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. Piteher, M.F. '56 Unknown
 E. J. Rayburn U.S.F.S., 7th St., Etowah, Tenn.
 E. P. Rigouard, Jr. Box 526, Laurens, S. C.
 D. W. Robinson, M.F. '56 2110 Sherrwood, Monroe, La.
 W. J. Schrupf, M.W.F. '56 Brandt Cabinet Works, Hagerstown, Md.
 E. R. Sluder Route 1, Box 224, Newland, N. C.
 E. B. Smith, Jr. 2642-D Park Lane Circle, Birmingham, Ala.
 W. G. Spencer 1232 Washington St., Cape May, N. J.
 J. W. Stokes Box 1045, Albemarle, N. C.
 J. G. Swift Box 265, Amhurst, Va.
 J. W. Tester, Lt. 2737 Fletcher Ave., Fernandina Beach, Fla.
 J. E. Webb, Jr. 841 Vista Way, Decatur, Ga.

Class of 1957

S. M. Adams Route 3, Four Oaks, N. C.
 W. C. Asher, M.S.F. U.S.F.S., 200 P. O. Bldg., Box 92, Lake City, Fla.
 W. P. Andrews, Jr. Champion Paper Co., Canton, N. C.

P. M. Boulogne, Jr. 15½ E. 49th St., Savannah, Ga.
 J. C. Burns 190 High St. Metuchen, N. J.
 G. L. Butler, Jr. Coosa River Newsprint Co., Pell City, Ala.
 D. S. Calderon Unknown
 M. R. Childs, M.W.T. 1408 Diana Dr., Lufkin, Texas
 V. A. Ciliberti, Jr. Box 28, St. Croix Paper Co., Woodland, Washington Co., Me.
 R. A. Crumpler 321 S. 6th St., Fernandina Beach, Fla.
 V. G. Dowless Route 1, Acme, N. C.
 C. A. Duckworth Box 263, 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 Va., West Point, Va.
 G. S. Gibbs USFS, P. O. Box 68, Crawfordville, Fla.
 A.R.O. Al-Hadithy 4th Technical Section, Baghdad, Iraq
 W. L. Hafley, M.F. Statistics Dept., Patterson Hall, N. C. State College, Raleigh, N. C.
 C. A. Hood Route 8, Johnson City, Tenn.
 S. T. Hudson Dept. of Forests & Parks, St. Albans, Fairfax, Vt.
 J. S. Kelley Box 134, Burnsville, N. C.
 E. J. Lawson, Jr. 7015 Hielo Dr., Jacksonville 11, Fla.
 W. B. McKenzie c/o F. L. McKenzie, Box 14, Rockingham, N. C.
 J. E. Masaschi, M.W.T. 1090 Moss Ave., Orangeburg, S. C.
 K. V. Matthews Route 1, Box 55, Kershawville, N. C.
 J. A. Morgan 138 W. Terrace Apts., Asheville, N. C.
 R. A. Nelson 2 Brambach Rd., Seaside, N. Y.
 C. R. Norton Deceased
 R. G. Norwood 1407 Frank St., Raleigh, N. C.
 J. R. Parker 2820 Virginia Ave., Charlotte, N. C.
 J. U. Perry Louisburg, N. C.
 P. J. Piekenheim USFS, Box 382, Whitehall, Montana
 C. M. Price, Jr. Prospect, Va.
 W. R. Stevens Box 552, Burgaw, N. C.
 J. C. Stevenson 103 Hillcrest St., Clemson, S. C.
 R. P. Tayloe Union Bag-Camp Mfg., P. O. Box 206, Wakefield, Va.
 S. A. Taylor 323 W. 2nd St., Washington, N. C.
 Z. H. Terzi c/o Huessin H. Terzi, Assist. Station Master, I.P.G. Exchange, ISR Kirkuk, Iraq
 R. R. Tighe 4408 Wickford Rd., Baltimore 10, Md.
 C. D. Webb School of Forestry, N. C. State College, Raleigh, N. C.
 M. J. White, Jr. R.F.D. 1, Box 373B, Suffolk, Va.

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 U. S. Rubber Sumatra Plantations, Kisanan, Sumatra, Indonesia
 T. H. Dillard, Jr. Box 134, Sylva, N. C.
 A. W. Donegan Dept. of Conservation & Economic Development, Division of Forestry, Abingdon, Va.
 T. A. Eakins Box 516, Dunlap, Tenn.
 T. W. Earle Rt. 3, Box 186, Clinton, S. C.
 H. H. Erwin N.C.F.S., Box 628, Whiteville, N. C.
 J. B. Fortin, Jr. USFS, Robbinsville, N. C.
 R. C. Franklin 1109 Toledo Ave., Lynchburg, Va.
 J. C. Goodman 501 Maupin Ave., Salisbury, N. C.
 C. R. Grady N. C. State Forest Service, Raleigh, N. C.
 G. G. Green, Jr. 2606 Sater St., Durham, N. C.
 R. F. Gurganus USFS, Robbinsville, N. C.
 C. B. Harding 110 State St., Emporia, Va.
 A. E. Haight, M.F. '58 c/o Forest Service, Carson Nat'l Forest, Taos, N. M.
 T. O. Hilbourn, III Route 2, Box 21-I, Plymouth, N. C.
 C. C. Hills 120 California Ave., Monck Corner, S. C.
 A. R. Al-Jaffari Dept. of Forestry, Forest Service, Baghdad, Iraq
 T. B. Kennedy, Jr. 240 N. Anderson Ext., Morganton, N. C.
 J. C. Kirkman, Jr. Box 186, Jamesville, N. C.
 M. B. Kunselman N.C.F.S., Belmont, N. C.
 C. N. O'Quinn Monck's Corner, S. C.
 J. P. Roberts, M.R. '58 228 Walnut Rd., Stafford-Wayne, Penna.
 R. J. Rough Riegel Paper Corp., Acme, 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. Shearlin, Jr. Box 681, Rocky Mount, N. C.
 M. S. Al-Simaani Gov't of Iraq, Directorate General of Industrial Design and Construction, Ministry of Industry, Baghdad, Iraq
 R. C. Simmons Central Parkway, Orangeburg, S. C.
 D. M. Thompson 110 N. Liberty St., Gastonia, N. C.
 F. L. Thorne Carolina St., Sylva, N. C.

E. G. Thorp	14 Prospect St., Cardwell, N. J.
M. T. Tilghman	NCFS, Raleigh, N. C.
D. L. Torrence	108 E. 2nd St., South Hill, Va.
B. C. Westmoreland	1st St., West Point, Va.
D. B. White	Route 1, Box 303, Franklin, N. C.
T. B. Wood	419 17th St., Charlottesville, Va.

Class of 1959

W. M. Alexander	Box 844, Sumter, S. C.
R. S. Allen	Route 4, Box 357, Durham, N. C.
A. C. Ambler	Asheville School for Boys, Asheville, N. C.
L. P. Bauer, Jr.	P. O. Box 613, Georgetown, S. C.
L. Beasley, Jr.	Box 4157, Lynchburg, Va.
R. J. Bickel	7A Troud St., Charleston, S. C.
L. D. Bonner, Jr.	Aurora, N. C.
J. A. Brown	115 Morehead St., Morganton, N. C.
W. C. Capps	Box 66, Alberta, Va.
W. J. Coker, Jr.	224 Roanoke Ave., Roanoke Rapids, N. C.
P. L. Cooke	USFS, Missaula, Mont.
T. F. Davis	Route 2, Box 432, Shelby, N. C.
O. C. Dodge	School of Forestry, N. C. State College, Raleigh, N. C.
G. F. Dozier	Route 2, Box 146, Fayette, Ala.
J. G. Formy Duval, II	Route 4, 398, Whitesville, N. C.
W. E. Freeman	803 Elizabeth St., Bennettsville, S. C.
E. L. Gibbon	1420 Nottoway Ave., Richmond 27, Va.
R. C. Gilbert	Olmstead Hill Rd., Wilton, Conn.
P. D. Glass	c/o USFS, Kemmerer, Wyo.
S. W. Gregg	Box 435, Greenville, Ga.
E. V. Griffin	Box 345, Nashville, N. C.
H. D. Hannah	Va. Div. of For., Waverly, Va.
T. L. Hayworth	Route 1, High Point, N. C.
A. L. Howard, Jr.	3031 Velva Dr., Norfolk, Va.
O. W. Hutchinson, MF '59	907 Church St., Beaumont, Texas
D. G. Jackson	Route 4, Box 324A, Lenoir, N. C.
N. D. Jackson, MWT '59	W. Va. University, Morgantown, W. Va.
T. S. Koenig	1105 Garland St., Pampa, Texas
P. Lemmon	c/o USFS, Avery, Idaho
J. H. Lively, Jr.	c/o USFS, Big Bar, Calif.
H. M. Lupold	2928 Delaine Dr., Columbia, S. C.
G. H. McEachern	2522 Guilford Ave., Wilmington, N. C.
R. L. Mattocks, III	c/o Halifax Paper Co.
H. W. Mills	Route 3, Box 208, Canton, N. C.
D. V. Mitchell, MWT '59	Formica Corp. Farmville, N. C.
O. C. Morgan	Route 3, Candler, N. C.
J. K. Morton	Box 1143, Venice, Fla.
M. A. Mulkey	International Paper Co., Pine Bluff, Ark.
E. G. Owens	Route 2, Cleveland, N. C.
J. D. Plowman	Rt. 3, Albemarle, N. C.
T. L. Price, MF '59	USFS, Jackson, Miss.
E. L. Ross	Champion Paper Co., Houston, Texas
D. Roten	Fleetwood, N. C.
J. K. Russell	c/o International Paper Co., Long-Bell Div., Longview, Wash.
D. H. Seannon, III	Firestone Plantation Co., Harbel, Liberia
W. A. Schul, Jr.	402 Clinton Ave., Hamilton, Ohio
E. R. Smith, MF '59	2300 Lyon St., Raleigh, N. C.
R. W. Stonecypher	School of Forestry, N. C. State College, Raleigh, N. C.
J. C. Stursill	Roma Kraft Co., P. O. Box 91, Dawsonville, Ga.
T. L. Sumner	305 S. Elm St., Cherryville, N. C.
K. O. Summerville	Rt. 1, Box 274, Raleigh, N. C.
L. B. Sumner	c/o USFS, Willows Ranger Dist., Willows, Calif.
C. A. Taber	1860 Riviera Parkway, Apt. 4, Jacksonville 5, Fla.
J. J. Thigpen, 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 224, Helena, Ga.
J. L. West	Charleston, S. C.
D. G. Winkler	Pottersville Rd., Chester, N. J.
D. V. Woolf	1502 Mott Ave., Far Lockaway 91, N. Y.

Class of 1960

W. T. Banner	RA14723419, ABTY 4th MSLBTN, 61st Arty, Jeffersonville, Ga.
P. W. Barnard	USFS, San Francisco 11, Calif.
J. L. Bass	109 Church St., Tarboro, N. C.
V. F. Batten	c/o L. C. Batten, Rt. 2, Whitesville, N. C.
J. N. Beasley	Box 644, Sylva, N. C.
G. H. Belt, Jr.	4807 Rowatt Dr., Apt. 102, College Park, Md.
D. P. Bhargava	N. Y. State College of Forestry, Syracuse, N. Y.
R. M. Boat	1423 N. Nash St., Apt. 1, Arlington 9, Va.
D. C. Bourne	Box 399, Georgetown, S. C.
R. F. Brake	1233 Ardmore Dr., Chesapeake Corp. of Va., Lynchburg, Va.
D. L. Bramlett	Gradute School, N. C. State College, Raleigh, N. C.

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	41 4th St., Newnan, Ga.
J. R. Carpenter	822 Kings Rd., Shelby, Ga.
D. G. Carr	NCSFS, Rocky Mount, N. C.
W. C. Carrigan	Chesapeake Corp. of Va., Sharptown, Md.
C. D. Carter	1923 Darnell Dr., Kingsport, Tenn.
W. G. Cawthorne	1116 Holburn, Raleigh, N. C.
J. P. Churchill, MSWT	Champion Paper & Fibre Co., Hamilton, Ohio
J. P. Clardy	1219 Richmond Dr., Georgetown, S. C.
T. W. Collier	413 Louise Ave., Rockingham, N. C.
T. W. Corkern	International Paper Co., Pine Bluff, Ark.
C. A. Doggett	Route 4, Shelby, N. C.
J. A. Egzler	USFS, Garden Valley Ranger Sta., Garden Valley, Idaho
G. K. Eliades	Bowaters Corp., Catawba, S. C.
C. D. Eskridge	N. C. Div. of Forestry, Raleigh, N. C.
A. D. Fary, Jr.	Institute of Paper Chemistry, Appleton, Wis.
G. R. Foust	Borden Chemical Co., 350 Madison Ave., N. Y. 17, N. Y.
J. H. Fox	RFD 2, Tarheel Trailer Court, Chapel Hill, N. C.
J. M. Frank	102 E. Main St., Plymouth, N. C.
R. L. Hagwood, Jr.	S. C. State Comm. of Forestry, Newberry, S. C.
J. R. Hamilton, Ph.D.	School of Forestry, Univ. of Ga, Athens, Ga.
G. 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. Husenoechrl	USFS, Troy Ranger Sta., Troy, Mont.
G. A. Helms	4860 Burfwood Lane, Richmond 24, Va.
K. D. Henderson	311 Alabama St., Spindale, N. C.
E. R. Hinson, Jr.	Champion Paper Co., Pasadena, Texas
P. N. Hinz, MSWT	2514 Kendall Ave., Madison 5, Wis.
A. G. Hofmann	2397 Grand Ave., New York, N. Y.
P. P. Holland	Rt. 1, Franklin, Va.
Ar. R. Hollowell	N. C. Pulp Co., Plymouth, N. C.
C. A. Honeycutt, Jr.	40 Cumberland Circle, Asheville, N. C.
J. W. Howell	USFS, Groveland, Calif.
T. G. Hunter	Va. Div. of For., Farmville, Va.
T. M. Irvin	377 South Haynes St., Memphis 11, Tenn.
J. S. Jennings	P. O. Box 587, Hickory, N. C.
T. W. Kirkpatrick	Champion Paper and Fibre Co., Canton, N. C.
R. E. Lench	Box 144, Greenville, Ga.
W. E. Loos, MSWT	2203 Shoreham St., Durham, N. C.
H. G. Lovin, Jr., MF	Route 1, Mt. Ulla, N. C.
S. S. Luczycki	P. O. Box 56, Great Bend, N. C.
J. E. McCaffrey, Jr.	International Paper Co., Pine Bluff, Ark.
R. A. McCormick	RA 147723460, 184th US ASA Co., APO 171, N. Y., N. Y.
J. W. McMinn	Apt. 2, 106 South Marion St., Lake City, Fla.
J. D. McNatt	320 W. Grand River, E. Lansing, Mich.
K. P. Magette	P. O. Box 27, Courtland, Va.
E. L. Mizell	818 Ave., East, Boguluse, La.
M. L. Moody	Rt. 3, Box 486A, Wilmington, N. C.
C. F. Moore, II	P. O. Box 8, Brevard, N. C.
R. M. Nelson, Jr.	School of Forestry, N. C. State College, Raleigh, N. C.
C. L. Potter	Rt. 5, Box 308, New Bern, N. C.
J. P. Pridgen	Sinclair Lumber Co., Laurinburg, N. C.
J. T. Rice, MSWT	School of Forestry, N. C. State College, Raleigh, N. C.
D. H. Robbins	c/o Mrs. C. A. Fetterman, 142 S. Main St., Allentown, N. Y.
J. H. Roberts	School of Forestry, N. C. State College, Raleigh, N. C.
T. L. Robinson	St. Regis Paper Co., Jacksonville, Fla.
P. C. Rose	Va. Div. of Forestry, Sandston, Va.
N. A. Russell	Institute of Paper Chemistry, Appleton, Wis.
H. W. Scheld, Jr.	Route 2, Box 416, Statesville, N. C.
J. H. Scott, Jr.	Mead Paper Corp., Chillicothe, Ohio
J. M. Scott	5026 White Oak Rd., Charlotte 9, N. C.
M. E. Seagle	Box 304, Cherryville, N. C.
C. W. Shelden, III	1522 W. University Ave., Gainesville, Fla.
R. W. Sherwood	86 Mona Terrace, Fairfield, Conn.
E. R. Sluder, MSFM	93 S. Pershing St., Asheville, N. C.
S. T. Smathers, 2nd Lt.	2nd B. G., 21st Inf., Schofield Bks, Hawaii
K. E. Steppe	Mead Corp. Lynchburg, Va.
D. A. Sutton	Route 2, Bryson City, N. C.
C. A. Tanner, III	495 Park St., York, Pa.
L. R. Taylor, Jr.	W. P. Morris Lumber Co., Jackson, N. C.
E. F. Thompson, MSFM	1517 W. Walnut, El Reno, Okla.
J. R. Thompson	D-4 Sapphire Manor, Brevard, N. C.
M. G. True, Jr., MF	112 W. Main St., Campbellsville, Kentucky
J. B. Vinson	Chesapeake Corp. of Va., West Point, Va.
R. S. Wallinger	322 Daneou St., Ashland, Va.
D. G. Young	USFS, 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.	212 Summit Ave., Raleigh, N. C.
W. R. Ball	Armstrong Cork Co., Macon, Ga.
D. D. Blizard	4541 Houston Ave., Macon, Ga.
A. C. Boyette	Rt. 4, Goldsboro, N. C.
E. W. Bradley, Jr.	7 William St., Rockville Centre, New York, N. Y.
C. S. Briggs	Burnsville, N. C.
R. B. Brill	Urbanna, Virginia
C. C. Brown	Albemarle Paper Ffg. Co., Richmond, Va.
W. B. Buckley	TVA, Norris, Tenn.
C. N. Carter	Institute of Paper Chemistry, Appleton, Wis.
G. K. Chandrathil	Chandrathil Kuriely, Kattayam, India
H. G. Cuningham, Jr.	1057 Miller St., Winston-Salem, N. C.
W. R. Dabney	151 North Broadway, South Salem, N. C.
B. B. Deston	St. Regis Paper Co., Jacksonville, Fla.
L. W. Eckstein, Jr.	Box 471, Bryson City, N. C.
L. C. Edwards	Virginia Forest Service, Portsmouth, Va.
H. B. Freeman	201 Center St., Spindale, N. C.
G. L. Gaines	1000 Lamond Ave., Durham, N. C.
G. G. Garner	Box 22, Newport, N. C.
R. C. Gilmore, MWT	School of Forestry, N. C. State College, Raleigh, N. C.
H. T. Gore	Rt. 3, Tabor City, N. C.
D. L. Grimsley	Rt. 4, Holly Springs, Miss.
C. M. Gurganus	908 Fairview St., Elizabethton, Tenn.
T. L. Harrill	Rt. 6, Shelby, N. C.
T. Harris	15½ Fenwick Ave. Windermere, Charleston, S. C.
T. Hinson	1357 Ebenezer Rd., S. C.
P. G. Hogan	Box 515, Troy, N. C.
P. P. Holland	Rt. 1, Franklin, Va.
C. T. Holloman	RFD, Seaboard, N. C.
K. F. Jeffries	Dept. of Conservation & Econ. Development, Charlottesville, Va.
H. M. Johnson	Lethbury Ave., Middlesboro, Ky.
D. F. Jolly	Norris, Tenn.
M. L. Jones	Rt. 1, Box 136, Burgaw, N. C.
W. A. Kendall	RFD 2, Wadesboro, N. C.
A. R. Kiser	1404 W. First St., Winston-Salem, N. C.
R. D. Lambert	Institute of Paper Chemistry, Appleton, Wis.
C. L. Lane, Jr., MSFM	Dept. of Forestry, Clemson College, Clemson, S. C.
E. H. Langston, Jr.	"D" Btry, 3rd Msl Bn, 71st Arty, APO164, New York, N. Y.
L. K. Lawrence	111 Virginia Rd., Marion, N. C.
W. F. Lehmann, MSMT	4108 Dakota Ave., Corvallis, Oregon
R. D. MacDonald	Dept. of Forestry, U. of Tenn., Exp. Sta., Knoxville 16, Tenn.
R. L. McElwee, MSF	School of Forestry, N. C. State College, Raleigh, N. C.
J. P. McPherson	208 Peaks St., Williamston, N. C.
S. V. Mace	Rt. 2, Box 155, Street, Md.
J. L. Martin	Wine St., Mullins, S. C.
R. W. Miller	213 E. Harford St., Milford, Penn.
A. R. Moore	2315 Byrd St., Raleigh, N. C.
L. A. Nichols	Box 24, Rt. 6, Wellsboro, Penn.
R. C. O'Dowd	108 Oxford St., N. E. Abingdon, Va.
T. A. Owens	MBA Harvard School of Business Administration, Harvard Univ., Cambridge, Mass.
W. H. Peele, Jr.	Halifax Paper Co., Roanoke Rapids, N. C.
R. B. Phelps, MSWT	14 54 N. Beauregard St., Apt. 203, Alexandria, Va.
H. B. Pierce, Jr.	3002 Medlin Dr., Raleigh, N. C.
H. W. Precythe	Div. of For., Dept. of Conservation, Ervin, Ky.
E. C. Puckhaber	Dixie Cup Co., Easton, Penna.
J. B. Kenvis	511 Huske St., Fayetteville, N. C.
A. J. Rhodes	St. Regis Paper Co., Pensacola, Fla.
C. C. Rice	S. C. State Comm. of Forestry, Patrick, S. C.
H. E. Roys	Rt. 3, Munfordville, Ky.
H. J. Scheurenbrand, Jr.	PFC, U. S. Marine Corps, Camp Lejeune, N. C.
E. C. Shelby, Jr.	Rt. 1, Pineknott Farm, Clarksville, Va.
R. L. Smathers	Box 643, Candler, N. C.
J. H. Smith	209 W. Ashe St., Lenoir, N. C.
L. E. Snider	Route 1, Liberty, N. C.
R. J. Steinhoff, MSFM	Dept. of Forestry, Mich. State Univ. E. Lansing, Mich.
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.
W. R. Sumner	Chesapeake Corp., West Point, N. C.
L. W. Swift, Jr., MSFM	326 Ulce Dr., Franklin, N. C.
P. W. Sykes, Jr.	1522 LaFayette Blvd., Norfolk 9, Va.
G. S. Tyson	P. O. Box 274, Waverly, Va.
A.R.A.H. Tall	1608 Benchan, Raleigh, N. C.
Eyvind Thorbjornsen, Ph.D.	Dept. of Forestry, Univ. of Tenn., Knoxville 16, Tenn.
J. E. Waters	3109 Hillsboro St., Raleigh, N. C.
C. W. Watson	Box 233, Highlands, N. C.
C. D. Webb, MSFM	School of Forestry, N. C. State College, Raleigh, N. C.

G. R. Wells, MF School of Forestry, Duke University, Durham, N. C.
 E. A. Wilder 902 6th St., Newport, Tenn.
 M. W. Wilkinson 113 N. Patterson St., Statesville, N. C.
 C. L. Wilson 112 Underdown Ave., Lenoir, N. C.
 J. D. Wolfe, IV 152 Rambling Way, Springfield, Penna.
 R. L. Younger International Paper Company, Pine Bluff, Ark.

MARK of the **MODERN TREE MARKER!**



- ↳ a **GUN** that cleans itself
- ↳ a **CAN** that screws on the gun
- ↳ a **PAINT** you don't have to stir

THE NELSON COMPANY
 Manufacturers
 IRON MOUNTAIN, MICHIGAN
 MONTGOMERY, ALABAMA

the *Practical*
Management
and
Production
Journals
of the
Forest Industries

The LUMBERMAN and The TIMBERMAN

*Lumber • Plywood • Board
• and other wood products
manufacturing*

— \$4.00 A YEAR —

*Forestry • Logging
& Woods Management •
Transportation*

— \$4.00 A YEAR —

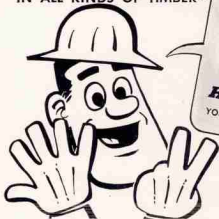
MILLER FREEMAN PUBLICATIONS

san francisco • portland • seattle • vancouver, b.c. • los angeles
atlanta • chicago • new york • cleveland • london • cologne

CIRCULATION DEPARTMENT
500 HOWARD STREET, SAN FRANCISCO 5

Proved By Years Of Popularity!!!

ON ALL MAKES OF SAWS—
IN ALL KINDS OF TIMBER—

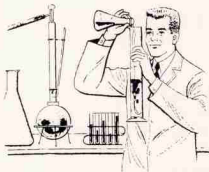


7 out of 10*
loggers choose
OREGON®
Chain!
How About You?
YOUR CHAIN SAW OUTLET HAS IT

*ACCORDING TO
A RECENT INDUSTRIAL SURVEY

© Copyright 1960 by
OMARK Industries, Inc.
OREGON Saw Chain Div.
PORTLAND 22, OREGON

Paper and Careers *for the future*



TODAY there are more than 100,000 different uses for paper . . . and the search for new uses never ends. That is why this fast-growing industry is now the fifth largest in the country . . . and why it needs trained researchers and technicians for future growth.

Our company, a pioneer kraft manufacturer, joins with other mills in sponsoring college scholarships in paper technology. It also offers scholarships for study in a subject of the student's choice. For information, write: Public Relations Department —

The
Chesapeake
Corporation of Virginia

MANUFACTURERS OF KRAFT PULP AND PAPER
WEST POINT, VIRGINIA

ADVERTISER'S INDEX

	Page
Asten-Hill Manufacturing Company	76
Bartlett Manufacturing Company	21
Bowaters Southern Paper Corporation	22
Capital Coco-Cola Bottling Company	76
Carolina Power & Light Company	22
Champion Papers, Inc.	36
Chapman Chemicals	6
Chesapeake Corporation of Virginia	105
D. B. Smith and Company	20
Forestry Suppliers, Inc.	22
Halifax Paper Company	8
Homelite Chain Saws	21
Howerton Supply Company	76
International Paper Company	75
Mead Corporation	77
Miller Freeman Publishing Company	104
Nelson Company	103
Olin Mathieson Chemical Corporation	51
Omark Industries, Inc., Oregon Saw Chain Division	105
Riegel Paper Company	52
Students Supply Stores	7
United States Plywood Corporation	see inside front and back covers

HAVE YOU PLANNED YOUR CAREER?

Today, plywood is virtually a household word. And United States Plywood Corporation is synonymous with leadership in the field—in hardwood as well as softwood plywood.

Our company has led the field in making prefinished hardwood plywood available to homeowners in every economic bracket, and the uses of Weldwood prefinished paneling, as decorative wall material for older homes and new is growing apace.

Sales have grown commensurately with that and other contributions in the building materials field—from \$107 million in 1952 to an estimated \$300 million this year. Our growth, quality of products and outstanding service has rewarded us with a position among the top 200 industrial corporations in the country.

Chemists, physicists and wood technologists—all working together in U. S. 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—and it will continue to grow. For growth with that market in whatever direction it moves, consider United States Plywood Corporation as a career opportunity.

PERSONNEL DEPARTMENT
UNITED STATES PLYWOOD CORPORATION
55 WEST 44th STREET
NEW YORK 36, N. Y.