

JOURNAL
of the
SCHOOL OF FORESTRY
North Carolina State University
1968

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The PINETUM

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1968

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OF THE

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ACKNOWLEDGMENTS

It is impossible to recognize each individual who has contributed directly or indirectly to this issue of the *Pinetum*, but special thanks go to those who have written articles and contributed photographs.

The editors are grateful for the expert assistance of Mrs. Frances Liles and Miss Edith Rose; for the typing skill of Miss Clare Powell, and especially for the guidance of Dr. R. C. Bryant and for his work on the alumni section.



Chatham County, N. C.



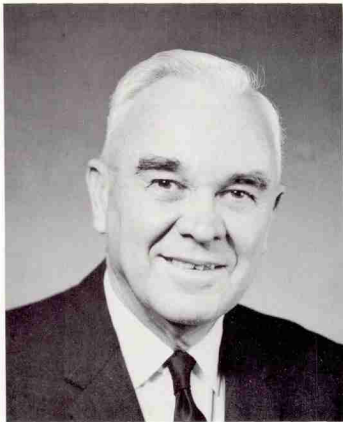
DEDICATION FOR 1968 PINETUM ALBERT R. CRAWFORD

Beginning in September, 1949, Albert R. Crawford began his career with the Department of Recreation Resources. He came to North Carolina State University by route of Appalachian State Teachers College and the University of North Carolina where he earned his bachelor and master degrees, respectively. In his nineteen years with North Carolina State University, he acquired from his students and his colleagues devotion and respect which are characterized by his own sincerity and desire for professional attainment. He served as an assistant professor and as head wrestling coach.

Success came early to Albert Crawford, for through hard work, patience, and competitive desire, he won international fame as an amateur light, heavy weight wrestling champion. This recognition occurred prior to his enrollment as a freshman at Appalachian State Teachers College. He lived a life of joy and appreciation and was particularly proud of his wife, Martha, their son, "Chip", and his two daughters, Cindy and Karen. For them, he built a home and provided an atmosphere symbolic of the profession he so well represented—personal fulfillment, enriched community living, and enjoyment—all objectives of recreation. His colleagues, friends, and students will remember Al's perpetual smile and warm eyes which had a language of their own expressing aid, comfort, joy, and friendship to all.

The recreation profession, through the Society of Park and Recreation Educators expressed their respects in a resolution adopted on December 4, 1967.

"We are sometimes privileged to have as friend and colleague one who stands above others in loyalty and dedication. Albert Crawford was such a man. For many years he served his community, his state and his nation with unerring devotion. His work in recreation education has left its mark on those men and women who knew him as teacher, counsellor and friend. It is, therefore, fitting that we the members of the Society of Park and Recreation Educators join in paying tribute to our departed friend and in expressing our heartfelt condolences to his family and to his close colleagues."



DEDICATION FOR 1968 PINETUM DR. ALFRED J. STAMM

The 1968 *Pinetum* is proudly co-dedicated to Dr. Alfred J. Stamm, Reuben B. Robertson Professor of Wood Chemistry, who is retiring this year after ten years of dedicated service to the University.

Dr. Stamm received his B.S. degree from California Institute of Technology. His M.S. and Ph.D. degrees came from the University of Wisconsin in the field of physical chemistry. He has studied in Sweden, and was a Senior Fulbright Research Fellow to Australia in 1955-56. Before coming to State, Dr. Stamm was a chemist for the U. S. Forest Products Laboratory in Madison, Wisconsin.

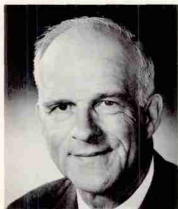
Many societies claim Dr. Stamm as a member. These include: American Chemical Society, Society of Wood Science and Technology, Xi Sigma Pi, Phi Lambda Upsilon, Tau Beta Pi, Sigma Xi, Alpha Chi Sigma, Gamma Sigma Delta, TAPPI, Forest Products Research Society, and International Academy of Wood Science.

Dr. Stamm has authored over 140 publications. Among the more recent of these are *Wood and Cellulose Science* (1964), "Maximum Pore Diameters of Film Materials" (1966), "Specific Gravity of the Wood Substance of Loblolly Pine as Affected by Chemical Composition" (1966), and "Surface Characteristics of Wood and Cellulose" (1967).

Dr. Stamm is ending a distinguished career of service to forestry, wood chemistry, and North Carolina State University. During this time, he established a reputation as one of the world's greatest wood chemists.

Farewell, Dr. Stamm. You will long be remembered.

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THE DEPARTMENT OF FORESTRY IN 1967-1968

By DR. T. E. MAKI

Since the 1967 issue of the *Pinetum* went to press, the old, well-known departmental name, FOREST MANAGEMENT, was discarded without ceremony or audible outcry. The new departmental label is simply FORESTRY. The change was appropriate. Forest management, *per se*, historically, has borne the connotation of growing stock regulation and practical application of scientific principles, technology and economics to operation of forest properties. Hence, it has scarcely reflected in true measure the full spectrum of instruction and research with which this Department has been for a long time involved and concerned. The Society of American Foresters now proposes to define forestry as "the science, art, and practice of managing and using for human benefit the natural resources that occur on, and in association with forest lands". The eight options and the dual degree possibilities available in our Department now reflect, in turn, the breadth of opportunities to specialize within the broad field of forestry as defined above and imply that the forester's responsibilities extend considerably beyond the production of wood, though that activity must still remain his major one in most situations.

Beyond mere name change, there are several significant developments, already mentioned in Dean Preston's report, that would justify elaboration in considerable detail. Within existing constraints of time and space, I shall make additional comment on only a few.

The Department currently is engaged jointly with the School of Engineering in an attempt to develop a degree involving both forestry and engineering operations. It is hoped that this effort will result in a program enabling a forestry student to complete requirements for the baccalaureate degree with a core of forestry subjects and a minor in engineering operations; conversely, an engineering student would fulfill the degree requirements with a minor in forestry. There are obvious difficulties, but the outlook still remains hopeful.

Under the leadership of Dr. Lammi and Mr. J. C. Jones a one-week short-course (February 26-March 1) on current techniques of aerial photo interpretation has been organized with two internationally-known experts, Dr. R. N. Colwell and Mr. R. C. Heller serving as principal instructors.



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Dr. Duffield has been awarded a Fulbright lectureship at the University of Ljubljana, Yugoslavia, for the 1968-1969 academic year, and he is serving this year as Chairman of the Faculty Senate. He was also awarded a National Science Foundation grant for the 1968 summer to direct a program of Undergraduate Research Participation.

Dr. Bryant is serving as Chairman of the Appalachian Section of the Society of American Foresters, and is currently organizing a referendum to secure a modest increase in dues to permit the Section to serve its members on a basis benefitting a professional society.

Dr. C. B. Davey is serving as Chairman of the Planning Committee for the Third North American Forest Soils Conference to be held in Raleigh from August 5 to August 10. It is hoped that many foresters will avail themselves of the excellent program that has been gotten up for this Conference which also includes field trips, involving among other places, the Schenck and the Hofmann Forests.

Dr. Fred S. Barkalow received the American Motors Conservation Award in the professional area for 1967 and served as Secretary for the Department of Agriculture's Advisory Committee on National Forest multiple use.

Dr. Tom Perry this year is busy breathing in the Olympian atmosphere of Harvard, as a Charles Bullard Fellow, while gathering material and preparing a manuscript on a book on Silvics. In spare moments he manages to skate, and also to ski among the "rocks, rills, and templed hills" of the Harvard Forest at Petersham, Massachusetts.

A course in forest influences, hydrology and watershed management is being developed and, hopefully, will be ready for offering in the spring of 1969.



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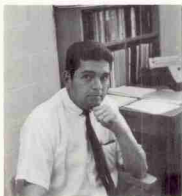
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THE PULP AND PAPER CURRICULUM 1967-68

By
R. G. HITCHINGS

The fall semester opened with 43 new freshmen and transfer students entering the pulp and paper technology curriculum. At the same time, Professor Charles N. Rogers, Associate Professor of Pulp and Paper Engineering joined the staff as "Doc" H. D. Cook's replacement to handle the engineering aspects of the program.

During March, 1967, Dr. Wyn Brown, formerly with West Virginia Pulp and Paper Company, Charleston, S.C. was associated with the curriculum and taught a portion of FOR 521, Wood Chemistry. He is conducting research in the lignin chemistry area and has published several papers dealing with cellulose chemistry. In December, Dr. Knut Kringstad became Associate Professor of Wood Chemistry when he arrived from Norway. He was formerly Assistant Director of the Norwegian Pulp and Paper Institute. Both Drs. Brown and Kringstad have been busy starting research programs and writing research proposals for future work.

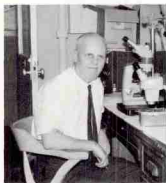
At the 13th Annual Pulp and Paper Foundation Meeting on November 4th, the membership approved a budget of \$88,500 for the '68-69 fiscal year. Substantial increases were made in the amount of money available for undergraduate scholarships and graduate fellowships. Renewed emphasis was placed on the importance of personal contact with high school students in order to attract them to the pulp and paper curriculum.

The annual round of company recruiters started this year in late October. With approximately one-half of the graduating class of 15 committed to graduate programs or R.O.T.C., the competition for the "other" half of the class wages "hot." It appears that the starting salary rate will be approximately 5% above last year. Company interest in the graduates extends from coast to coast, however, the graduating seniors are mainly interested in opportunities in the South.

Our secretary and strong "right-hand", Mrs. Dorothy Honeycutt, was involved in a serious automobile accident in February and appears to be lost from us for 2-3 months. We are looking for her speedy recovery.

The end of this academic year will see the retirement of Dr. Al Stamm, the Robertson Distinguished Professor of Pulp and Paper Technology under the mandatory retirement policy of North Carolina State. His retirement plans include continuing activity in his long-range research projects at the Laboratory, but he will be sorely missed in the teaching program of FOR 521 and 522. He will continue to look forward to seeing his former students and associates as they come to Raleigh.

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Presentation of Sander-Planer
From Carborundum Company of Niagara Falls, New York

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RECREATION RESOURCES ADMINISTRATION

By
THOMAS I. HINES
Head of Department

February 1, 1968, marked the beginning of the second year for the School of Forest Resources' newest department; likewise, it closed the door for the department's first year of operation in its new school. This year was highlighted by:

1. The change of the department's title from Recreation and Park Administration to Recreation Resources Administration.
2. A major revision of the curriculum of Recreation and Park Administration.
3. The preparation of a new curriculum to create professional personnel for recreation using wild lands.
4. The operation of an in-service education program for neighborhood community center recreation leaders.
5. A continuation of the Southeastern Park and Recreation Training Institute and the Revenue Resources Management School.

Consideration was given to adopting a new departmental title which would be descriptive and provide for extensive and intensive functions. Resources have been classified as human, natural, and man-made.

Much time and effort was consumed by the department's faculty in its major revision of the curriculum of recreation and park administration. Departmental required courses content were studied and evaluated with the result of merging two or more courses into one. Additional courses, non-departmental, were adopted. Options applying to various settings in which recreation is administered were strengthened: employee, institutional, public, and parks.

Sometime during the spring semester, 1967-68, a curriculum designed to prepare recreation professionals for operating on wild lands will be submitted for approval. This curriculum will provide for recreation professional needs of the United States Forest Services, the National Parks Services, private industry, state parks, etc.

Faculty members have served in active leadership roles as elected officers of the state and national professional societies.

In retrospect, the department's first year in the School of Forest Resources has been progressive and satisfying. Within the near future graduate programs will provide for greater service to North Carolina and the nation in companion with strong undergraduate curricula.

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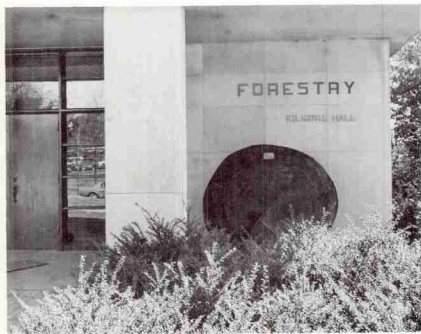
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WOOD TECHNOLOGY 1967-68



DR. ERIC L. ELLWOOD

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THE TIP OF THE ICEBERG

By

ERIC L. ELLWOOD

The primary concern of the serious student in any particular professional program quite naturally revolves around the quality and nature of his education, particularly as it will equip him for his life's endeavour. His evaluation criteria, while in school, stem largely from the relatively few class contact hours that he has with each particular teacher, such advisory sessions he seeks on his own initiative and contacts with faculty at club and student society meetings. While education is, without question, the primary function of a university, I am sometimes left with the feeling that at least some students, more so undergraduates, because of their involvement primarily with meeting the day-to-day demands of course work, are not fully aware of the breadth, scope and involvements of their department and teachers in the total operation of their program. This program must be continually engaged in and coped with contemporary and future issues. The program must influence the viability and quality of the student professionals being produced and their subsequent impact on, success and performance, in society. The tip of the iceberg to which I refer is the class hour involvement between the teacher and the undergraduate student. This is the point of transference of knowledge, the development of guideposts in thinking and hopefully, the stimulation of aspirations in the student. It is relatively fleeting and obviously has high visibility. The bulk of the iceberg that lies beneath the surface and which is perhaps less readily seen by the contemporary student is what we might now briefly look at.

In many ways the modern university has some similarities to the operation of a large corporation—its products being education, research and leadership in its chosen segment of activity. The total activities of the Department of Wood Science and Technology which conducts two degree granting programs—namely, Wood Technology and Pulp and Paper Technology—typify the interleaving complexities involved in scientific-technological programs. The missions of the department, which are eventually

brought into focus through the educational process involve: a) undergraduate education for industrial or governmental occupation, b) graduate education for industrial, university or government occupation, c) extension or continuing education of professionals already employed, d) research which will enhance the values of wood as a resource to mankind, e) provision of guidance and leadership to industry and government in the optimum utilization of the state's and the nation's wood resource.

While any one of these aims could well be a full time occupation for a large faculty, it is obvious to all that resources available for obtaining faculty and physical plant are limited, and that judgments must be made to optimize the faculty and physical resource available to achieve the excellence necessary in each of the aims. But a weak program in any one of the above missions eventually has its deteriorating influence on the quality of the undergraduate educational program. It should be clearly recognized that all these aims are closely interrelated and interwoven so that activities in each one of these areas exert substantial synergistic influences upon the others, resulting in the overall approach to the attainment of excellence of the educational program. While these continual evolutionary interrelationships in the striving for excellence could be demonstrated in many ways, just let us consider a small number of examples which show the relationship between the tip of the iceberg and what is below the waterline.

Example #1. An extension program provides deep and meaningful contact with industry, its problems and opportunities. A strong program carried into effect provides our faculty with firsthand experience on contemporary problems and their solution (which is part of the extension responsibility). This has manifold influences on the educational program for the university student—case studies, and real life situations can be fed back in the curriculum, industry more readily supports the program and in turn their demands for educated professionals increases. It also provides continuing dialogue between faculty and industry and insight for faculty in terms of future needs of industry. A continuing series of short courses throughout the year held by department faculty for professional people is one of the many ways of generating new approaches to problem solving, and these eventually become incorporated in class work.

Example #2. A strong research program which provides the department with the capability of solving immediate and long term problems of wood utilization and processing which is one of the most positive aspects of program development. It is here that very often the most far-reaching innovations are born, where insight is enhanced by confrontation with the frontiers of the unknown. These concepts continually filter into the undergraduate program and with the associated enthusiasm of firsthand involvement by the faculty. On the more material side, a strong research program provides an additional source of income which enables the department to employ more faculty and provide finances for graduate student assistantships and scholarships.

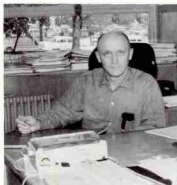
To further typify the benefits of research, one recent research study designed to minimize costs in lumber use by furniture companies and dimension stock plants resulted in a computerized program which can predict the least cost mix of lumber grades and their amount, for the manufacture of any given suite of furniture. Application of this system is



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being made at an increasing rate by furniture companies with resultant savings of many thousands of dollars per month and at the same time increasing their interest in research and in obtaining more graduates. Other research programs are underway in wood chemistry, pulping, wood modification, wood anatomy and the like. Most of our departmental faculty have half of their time devoted to research activities of a very demanding and meticulous type.

Example #3. Keeping current in one's field is a problem of the greatest magnitude in the present age of geometrically expanding knowledge, particularly where synthesis and application of several disciplines is involved, as in wood and pulp and paper technology. Literature survey, professional meetings, special conferences and seminars are all mechanisms utilized to a greater or lesser degree by faculty for maintaining communication and currency in on-going research, development of technology. Not a few of these meetings involve active participation of faculty in development of professional programs and special study assignments all related to the wood resource. Again, both direct and indirect influences feed into the teaching programs and help define the goals and guideposts for the future. Participation in these activities by faculty not only enriches their own background but also helps build the concept of our viability which in turn increases support of the departmental program, financially and otherwise.



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ogy
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These are but a few of the inputs and some of their influences.

Again, within normal constraints applying in any institution, the university, its schools and its departments, has a high level of democratic involvement by faculty. Therefore faculty variously serve on a variety of committees ranging from parking, student admissions, buildings, selection of visiting professors, curriculum review and approval, student recruiting, research policies and many others. In addition some have intermittent industry, state or national advisory commitments. These activities again have their overtones and influences upon the tip of the iceberg.

This brief sketch, which is necessarily incomplete, may help provide some concept, of our departmental "iceberg" and show that, far more than meets the eye must be continuously in motion, (and apparently at an accelerating rate) to maintain and develop eminence and leadership.

Some of the recent visible accretions to the tip of our iceberg that have arisen directly from these non visible activities have been the addition of new outstanding faculty, the movement in our curricula away from "how to do it" to "why to do it", the trend towards faculty team approaches, the greater emphasis on analytical and case study approaches, summer in-plant projects, the development of strong foundations for, eventually, a new program in wood chemistry, and the aggregation of one of the strongest teams of wood and paper chemistry in American universities to complement an already strong and diverse faculty in other specialties, new and modern physical equipment and the expectations of enlarged and modern facilities within the next two years. The latest statistics compiled by the Society of American Foresters show that for the last year the Wood Technology Program at North Carolina State University ranked first in the nation in the number of bachelor and also graduate degrees granted. Although the Pulp and Paper Technology Program does not rank first in student numbers in the nation, the accolades its graduates are receiving are quite distinctive and financially outstanding.

There are yet imperfections and problems to be solved in our programs but it is important for the student to recognize and consider the nature of our "iceberg", not only to better take advantage of his relatively short stay on campus but also to contribute his own constructive inputs.

Also viewed in this perspective, graduating students (who are undoubtedly marked for success!) may better appreciate the mutual benefits which can accrue by maintaining their contact with their alma mater department.



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B.S., Pennsylvania State
University; M.W.T., North
Carolina State University;
D.F., Duke University



EXTENSION FORESTRY



By WALTER M. KELLER

The Extension forest management program is designed to increase the growth and quality of wood fiber on forest lands and improve the efficiency of harvesting techniques and equipment. To accomplish these objectives, work is carried out with corporate as well as individual landowners. The logging industry plays a major role in the forest economy, and this is one segment of the wood industry complex that forestry specialists can help to develop better technological and managerial skills. Cooperation is given to local and state organizations, trade and private associations, and to individuals to keep them informed: (1) of the investment opportunities, (2) the relationship of the forest and wood to the state's economic growth, and (3) the part each individual can contribute to enhance North Carolina's development through sound exploitation of its natural resources.

The Extension wood products programs have continued efforts with individual firms and existing associations to develop information and techniques on improving managers' ability to make better long-range and short-run decisions. These decisions require a better understanding of the market structure; internal performance of the manufacturing facilities; price behavior; expectations for inputs and outputs; and modern technology. Efforts also are being directed towards improving the knowledge of the consumer, designer, and specifier of wood products to utilize efficiently wood products.

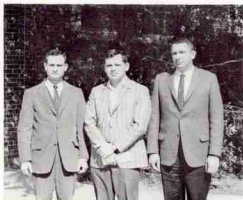
Changes have been numerous in the Extension Forestry Department during the past year. Ron Thomason, Nick Weidhaas, Tom Fetters, and Bill Stuart all left us for other opportunities in the forest industries. To replace them, we have added to our staff: A. G. "Sandy" Mullin (M.F., Duke), Steve Hanover (M.F., Yale), and Wayne Haines (M.S., Florida). In addition, Hugh Fields, Wildlife Specialist, has been transferred to our department and is now a part of the Extension forestry program.



F. E. Whitfield, W. M. Stanton, R. S. Douglas
Forest Management Extension



E. M. Jones, J. C. Jones
Forest Management
Extension



Stephen Hanover, A. G. Mullin
Wood Products Extension
Wayne Naines, Forest Management Extension



W. E. Keppler
Head, Wood Products
Extension



W. T. Huxter
Wood Products
Extension



L. H. Hobbs
Wood Products
Extension

STAFF



Miss Hazel Adams
Bookkeeping
Dean's Office



Miss Cicely Browne
Forest Management



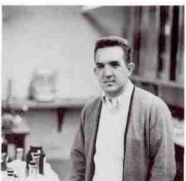
Mrs. Margaret Burchette
Bookkeeping
Dean's Office



Miss Carol Ellis
Forest Management



Mrs. Judy Faircloth
Forest Management



Joe Fanney
Wood Science and Technology



Miss Judy Johnson
Wood Science and Technology



Mrs. Patricia Kennedy
Forest Management



Mrs. Frances Liles
Student Records
Dean's Office



Mrs. Diann Mason
Recreation and Park Administration



Mrs. Martha Matthias
Forest Management



Mrs. Vickie Miller
Forest Management



Mrs. Eiga Filton
Forest Management



Mrs. Becky Gooch
Wood Products Extension



Mrs. Martha Holland
Forest Management



Mrs. Dorothy Honeycutt
Pulp and Paper



Mrs. Lanora Goss
Forest Management



Miss Teresa Jernigan
Recreation and Park Administration



Everett H. Morgan Wilborn McLaurin
Wood Products Lab



Miss Clara Powell
Forest Management



Miss Nancy Roberts
Wood Science and Technology



Miss Edith Rose
Dean's Secretary



Mrs. Inez Tucker
Forest Management



Mrs. Elizabeth Wilson
Wood Science and Technology



Miss Pasty Varner
Pulp and Paper



Oak Grove Airstrip
N.C.F.S.

SCHOOL OF FOREST RESOURCES

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Raleigh, North Carolina

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Forest Disease Research
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2012 Nancy Ann Dr.
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College of Forestry
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432 Oakland Dr.
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Mrs. Martha Crawford
214 S. King Charles Rd.

Mrs. Emma Graeber
303 Hillcrest Rd.

Mrs. Ella Hofmann
2800 Fairview Rd.

Dr. W. D. Miller (Catherine)
1907 Victoria Rd.

Mrs. Thelma Slocum
3210 Arthur Ct.

Mrs. Josephine Wyman
1837 White Oak Rd.

SENIORS—FOREST MANAGEMENT



AUBREY SIDNEY BAYNES—Wendell, North Carolina

Forest Management—Wildlife and Wildlife Science
"B. B." said that when he grew up he wanted to be a "pellet", but we are sure he will exceed many of the older bores due to his high intellectual caliber.



STANLEY WALKER BINGHAM—Clemmons, North Carolina

Forest Management—General Forestry

"Stan the Man". Stan is the "magnificum exemplum" of forestry. Diligent class attendant. Will graduate at head of class. Stan's undaunted ambition has led him to the realms of knowledge. His sensitive ear for foreign languages will fame him as a world traveler and renewed lecturer.



TERRY BROOKSHIRE—Asheville, North Carolina

Forest Management

Freshman and varsity football

"Birdog Brookshire". Terry's big day was when he was chosen as "outstanding lineman of the week" by a local telephone company. Terry often gives fatherly advice to the young married foresters.



ALEX CARTER, JR.—Lynchburg, Virginia

Forest Management—Wildlife

Forestry Club

"Carter the Starter". Alex will lay his shoulder into your kidneys if he ever gets behind you. In class he seldom lags behind, even in such courses as physics.



ALBERT BANNER COFFEY—Blowing Rock, North Carolina

Forest Management—Wildlife

Phi Eta Sigma; Xi Sigma Pi; Alpha Zeta—Chancellor; Alpha Zeta Scholarship; Forestry Club; Phi Kappa Phi, Homelite Award

When Albert talks you can almost see Blowing Rock in the background. With his high academic average, some may think he's smart, but he got married this semester.



GARY RAY CONOVER—Hyattsville, Maryland

Forest Management—General Forestry

Forestry Club—Assistant Program Chairman and Program Chairman, Steward of Summer Camp, 1967, assistant floor counselor, Rolleo

Gary is an expert with a transit. He knew instantly something was wrong when he came out 5 chains from that corner marker. With his grades and personality, we must review our old opinions of Marylanders.



JOSEPH ROGER DIETZ—Lanham, Maryland

Forest Management

Forestry Club, ROTC

"Datz". Joe will soon be the boss man for the Southeast Asia Logging Company. With his amiable character and inward determination, he is bound to become a General.



CHARLES TURNAY FOSTER—Williamsville, New York

Forest Management—Biology

Charlie is a yankee lad, but he's a good egg after all. We all wish him luck in the Peace Corps.



GEORGE G. GLASS, JR.—Raleigh, North Carolina

Forest Management—Forest Biology

Xi Sigma Pi, Phi Kappa Phi, Homelite Award

George has such an abundance of grey matter that one day it split his head. Even though his cranial stocking was decreased by four pounds, his intellectual vigor remains unsurpassed.



HAROLD GLENN GRADY—Mount Olive, North Carolina

Forest Management

"Fireball" has taken us on many a scenic bus tour through the forests primeval. His motto is, "One cannot see the forest for pushing the bus out of the mud". The responsibility he accepts should not go unrecognized.



GARY HALE—Tyner, Kentucky

Forest Management—Biology

Forestry Club, Xi Sigma Pi

"The Kentucky Wonder". Hale is hell. He is Master of the Cue. A superb pool shooter. One day he shot poorly and lost his eye-teeth. If you don't hold him down, Gary will ruin a quiz curve by scoring too high.



MICHAEL DAVID HARRIS—Henderson, North Carolina

Forest Management—Business Operations

Forest Club, Xi Sigma Pi, American Forestry Association

"Harris the Elder". What happens when an old married man is temporarily returned to a gay bachelor's life? Seriously, when Mike does a job, it is done right.



JAMES VICTOR HENDERSON—Saltville, Virginia

Forest Management—Management Option

Phi Eta Sigma, Alpha Zeta, Student Government, Continental Can Forestry Scholarship

Henderson has a keen ear in the classroom and is able to quote *ver batum* on exams. In the field, he utilizes his gifted sense and can hear a pack of cigarettes being opened at a hundred yards. His ears also tuned in on the voice of the Sirens and he fell prey to the bondage of marriage.



JAMES THOMAS JENNINGS—Raleigh, North Carolina

Forest Management—Wildlife

Wildlife Club; Dean's List (1)

"Gentleman Jim." Our hearts thrill as we watch Jim charge ahead, undaunted, always forward toward whatever work is to be done. Jim is a wildlife man and aspires to count deer droppings.



PETER LENT JOHNSTON—Burlington, North Carolina

Forest Management—Wildlife

Xi Sigma Pi, Letter in Track

Pete has to run in a circle three times to even cast a shadow, but don't let his size fool you. He's a ball of energy and a shrewd, smart future forester.



JAMES RICHARD JORDAN—Murphy, North Carolina

Forest Management—Business Operations

ROTC—Commanding Officer of Counter-Guerrilla Unit

Jordan is one of the unhailed talents of the class. He constantly amazes us with frog imitations, newly-coined jokes, and unique expressions. Hope the V.C. appreciate his talent.



LARRY M. KENNEDY—Altoona, Pennsylvania

Forest Management—Watershed

Larry with his fabulous trip-fall has diverted us on many a field trip, often at the expense of his spectacles. He is possibly the hardest worker in the class and is dedicated to a career as a Watershed Forester, whatever that is.



CHARLES E. LINDSAY—Greenville, South Carolina

Forest Management

Kappa Sigma Fraternity

Charles is the only one of us who spent enough time in the library to meet and marry a librarian. Using his cheerleading ability, he has instigated many a pine cone fight.



GEORGE VAN B. LLOYD—Raleigh, North Carolina

Forest Management—Science or Economics

Forestry Club, Economics Society

George is another ROTC John. He hopes to be commissioned in the Fighting Finance Corp. When it comes to work, George is a tough fighter and a skilled veteran of the books.



DAVID AARON NOLL—Norristown, Pennsylvania

Forest Management—Watershed

Forestry Club—Program Chairman

Dave is one of our northern brethren. Although he speaks a foreign tongue, he has won a place in all our hearts. He is the only one who carries cold grits for lunch.



ALLEN LOUIS PLASTER—Morganton, North Carolina

Forest Management—Logging Operations
Forestry Club—Secretary

Al is noted for his sheepish grin. Al is the kind of boy you are proud to have studied with. When things are rough, Al looks up and says, "Things are rough."



J. WARREN RANNEY—Havertown, Pennsylvania

Forest Management and Recreation
Pershing Rifles Military Fraternity

Jack is the perfect example of a man who says little, knows a lot, and goes into a job with the goal of perfection in mind.



DAVID C. SMITH—Bellevue, Kentucky

Forest Management and Recreation
Swimming Team; Forestry Club; Xi Sigma Pi

D. C. is the only forester who has a specific management scheme in mind. He is going back to the tribe and grow birch trees to make canoes. He will earn many beads in the future.



HENRY DONNELL SMITH—Peachland, North Carolina

Forest Management
Xi Sigma Pi; Phi Kappa Phi; Forestry Club; Pine-
tum Editor; Garden Club of N.C. Scholarship;
Homelite Award

At times Henry's countenance is deeply wrinkled with lines of thought, but the next second his face is aglow with the heat of laughter. Henry is the best all-around forester we have.



MARC LEON STAFF—Shrub Oak, New York

Forestry Club—Program Chairman, Vice President, President, Concave, Forestry Council, S.A.F., Home-lite Award

"There goes Dr. Bryant. Look! He has two shadows! No, one is Marc's." Seriously, Marc is a natural leader with a fine personality and plenty of ambition. He will go far.



HARVEY ALLEN WADE—Winston-Salem, North Carolina

Forest Management—Forest Management Science Forestry Club—Treasurer

Harvey knows a couple of sailor stories and he is a good source of entertainment on the long bus rides. He has learned to roll with the blows and performs all tasks in an outstanding manner.



JAMES H. WARE—Turkey, North Carolina

Forest Management—Biology and Soil Science

Xi Sigma Pi—Secretary Fiscal Agent; Alpha Zeta—Treasurer and Alumni Committee Chairman; Bragaw Floor Counselor; N.S.F.A. Research Scholarship; Forestry Club

Ware took 406 last year and is laughing at us right now. He wised up his last two years and got with the program, i.e. the ROTC program. Wrong program, eh, Ware? He and General Datz will make a terrific pair.



WILLIAM C. WATKINS—Durham, North Carolina

Forest Management—Recreation

Xi Sigma Pi

Watkins joined the ranks of the married last year. He will also join the ranks of the Fearless Foresters when his ROTC commission comes.



MICHAEL L. WEATHERFORD—Clinton, Kentucky

Forest Management—General Forestry

Xi Sigma Pi, Alpha Zeta, Forestry Club, AFPI Pre-Forestry Scholarship

Mike is a gifted orator as he demonstrated in Dr. Duffield's class. At this time, we would like to award him the Distinguished Forestry Star for his valor in the spitball fights.



MONTY D. WILSON, JR.—Denver, Colorado

Forest Management—Recreation

"Sierra Sam". Monty wants to develop all wilderness areas as tourist attractions with hot dog stands, service stations, etc. Guess who can argue from 8 p.m. until 5 a.m. and still walk out the door unaided?



Saturday is washday.

PULP AND PAPER



DAVID LEE ASHCRAFT—Pine Bluff, Arkansas

Pulp and Paper Technology

Xi Sigma Pi, Phi Eta Sigma, Glee Club, Housing Staff, Student Government Senator, Pulp and Paper Foundation Scholarship.

David is the only musician we know who can practice piano while listening to a lecture.



MACK WILLIAM BAILEY—Andrews, South Carolina

Pulp and Paper Technology

Xi Sigma Pi—Forester, N. C. State Band, Phi Eta Sigma, Freshman Axe Award, Phi Kappa Phi, Alpha Zeta, Fourdrinier Society, Forestry Council, Pulp and Paper Foundation Scholarship, Crown Zellerbach Award.

Even though Mack studies all the time (?), he manages to find time to keep his 56 Ford in good (?) repair.



JOSEPH WILDER BOGGS—Rome, Georgia

Pulp and Paper Technology

Fourdrinier Society, Xi Sigma Pi—Associate Forester, Alpha Zeta, Phi Kappa Phi, Pulp and Paper Foundation Scholarship.

Joe was quite worried about being accepted at the Institute until he received work he had passed the final requirement—a snow-shovelling test.



LESLIE AL BRITTON—Plymouth, North Carolina

Pulp and Paper Technology

Fourdrinier Society, Alpha Gamma Rho.

Better known as J.B., he was the class comedian. But it wasn't so funny when he couldn't get his fraternity pin back.



MARTIN L. CHECK—Warren, Pennsylvania

Pulp and Paper Technology
Fourdrinier Society.

Being a Yankee, and therefore subject to constant harassment from the Southerners of the class, Marty has no qualms about using Pollock jokes to get at Zu, his Yankee roommate.



ANDREW L. JOHNSON—Oak City, North Carolina

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

Andy kept the lab in stitches with his lively stories and laboratory technique.



LAWRENCE J. JOHNSON—Georgetown, South Carolina

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

Larry will answer to several different names—Walkie-Talkie, the Chimp, Brownie. We hear he's tight though. His roommates tell us he saves the dishwasher for use the next night.



GEORGE EDWARD LENNON—Bladenboro, North
Carolina

Pulp and Paper Technology
Xi Sigma Pi, Pulp and Paper Foundation Scholar-
ship.

Though normally a hard worker, Eddie has been known to take plant trips on days when we run the paper machine.



CHARLES E. McLEMORE—Crossett, Arkansas

Pulp and Paper Technology

Fourdrinier Society—President, Xi Sigma Pi, Forestry Council, Pulp and Paper Foundation Scholarship.

Charlie went around telling everybody to start calling him Dr. McLemore until the draft laws were changed. Now he's afraid he won't be able to use his research assistantship.



JOHN FRANCIS PRICHARD—Salisbury, North Carolina

Pulp and Paper Technology

Fourdrinier Society, YMCA, National Merit Scholarship.

Since this giant of a man is too big to argue with, his lab partners overlooked his numerous Roman holidays throughout the year.



JOHNNIE D. RESPASS—Plymouth, North Carolina

Pulp and Paper Technology

Fourdrinier Society, Xi Sigma Pi, Crown Zellerbach Award, Pulp and Paper Foundation Scholarship.

The "old man" of the class, Johnnie taught Prichard how to play golf (or was it pool) and kept the rest of the class in line with his weekly Senior Ratings.



MICHAEL E. WARD—Neva, Tennessee

Pulp and Paper Technology

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

Known as "Tennessee Tuxedo," Mike is the typical mountain boy at school, but at home he becomes the typical henpecked husband.



DAVID E. ZUKOWSKI—Eric, Pennsylvania

Pulp and Paper Technology
Fourdrinier Society.

Being a Yankee, and of Polish descent, Zu couldn't afford to ride anyone too hard. He turned out to be the best-natured member of the class.

HAROLD E. SELLERS—Elyria, Ohio

Pulp and Paper Technology

Xi Sigma Pi, Fourdrinier Society, Phi Eta Sigma,
PIMA Award, Residence Hall Athletic Director.

It's a good thing Harold doesn't snore or he might disturb a lot of classes.



Wonder what happens when you turn this?

RECREATION RESOURCES



ROBIN D. ANDREWS—Raleigh, North Carolina

Park Administration

Alpha Phi Omega; Pinetum Photographer—R.R.A. Section

A serious student and an experienced outdoorsman, Robin hopes to combine these and become a successful park administrator.

ANTHONY BARCHUK—Brooklyn, New York

Physical Education

Football, 1-4; Intramurals

One of the chief reasons for the Wolfpack's gridiron success this season, Tony's goal is to become a teacher and possibly a coach. Generally quiet (in class), Tony will long be remembered for one statement in a particular class, "Where's Kenosha?"



EDWARD BIEDENBACH—Pittsburgh, Pennsylvania

Industrial Recreation

Basketball 1-4; Baseball 3; Sigma Alpha Epsilon; Monogram Club; All-A.C.C. Basketball team 2, 4.

There isn't much that can be said about Ed that hasn't already been said or printed. A real hustler (on the court and off), Ed will long be remembered by Wolfpack fans and the girls from Rex. Would like a shot at pro-ball and will probably get it.



JACK R. BONEY JR.—Warsaw, North Carolina

Industrial Recreation

Intramurals; R.O.T.C.

Care-free Jack takes life as it comes (usually over a "cold one" at The Knave). Usually found with Joel. Jack plans to give an Army career a try. (Does that "R" stand for Rex, Jack?)



THOMAS L. BRADFORD—Fayetteville, North Carolina

Industrial Recreation

Baseball 1-4; Intramurals

Although Tommy's married, has a couple of little ones at home and devotes quite a bit of his time to baseball, he's managed to knock out some of the better grades in our curriculum. Hopes to get a chance in pro-ball before a career in recreation. It's a good thing he handles a bat better than he does a canoe paddle!



NORMAN L. CATES JR.—Morehead City, North Carolina

Municipal Recreation

Football 1-4; All-Atlantic Coast Conference (1967); Gamma Gamma

As long as Norm was around, there was never a dull moment. With his sparkling personality and determination, there's no tell what Norm can do if he sets his mind to it . . . the "moon" is the limit! Getting married appears to be the best thing that could have happened to Norm.

ROBERT L. CATO—

Industrial Recreation

Kappa Alpha; Intramurals

Bob served a hitch in the service and has returned to State to finish work for a degree. Although a newcomer to most of us, he has made friends quickly. Coming from over on the Row, he's always ready for a good time.



JAMES J. DAVIS—Manor, Pennsylvania

Park Administration

Baseball 1, 2; Theta Chi; Intramurals; Assistant Intramural Director

One of the pro-intramural jocks, Jimbo still found plenty of time to crack the books and harrass Stokes. Jim was an inspirational factor in initiating Stokes' interest in "animal life".



RUDOLF DAVIS—Asheville, North Carolina

Municipal Recreation

Lambda Chi Alpha; Intramurals

Rudy is one of the quiet ones, but is a mighty hard worker.



CHARLES DEBRITO—Raleigh, North Carolina

Industrial Recreation

Phi Kappa Tau

Charlie's talkative manner and witty personality keep him one step ahead of everyone else. Getting a little thin on top (as pointed out by one of the Yankees), Charlie is a real likable guy. Only guy I know that leaves a beach trip to come back to Raleigh for a date. Can't help but be a success!



HAROLD DETERS—Kinston, North Carolina

Municipal Recreation

Football 1-4

Bud has returned from a season with the Dallas Cowboys to get his degree. A quiet guy possessing a serious attitude, Bud will be back with the Cowboys kicking field goals and p.a.t.'s again next season.



JOHN W. DOUGLASS—Pittsburgh, Pennsylvania

Industrial Recreation

Basketball 1-4; Rho Phi Alpha

A great guy with a terrific personality, Jack always manages to have a good time no matter where he is. Accomplished author of "accepted" excuses. Jack's moments of glory have come in televised games. Has been known to move faster at the bench than on the court!



JOSEPH R. FRANKLIN—West Jefferson, North Carolina

Park Administration

Scabbard and Blade; Baseball 1, 2; R.O.T.C.

Rather quiet, but a true friend to those who need one. Joe heads to the mountains every weekend to see that "special someone" he plans to marry this summer. To become an A.F. pilot is Joe's present ambition.



RODERICK FUQUA—Weymouth, Massachusetts

Park Administration

Alpha Gamma Rho

Rod's one of the quiet guys (in class at least). He plans to head back North for a career in forest recreation.



MARY E. GARRISS—Raleigh, North Carolina

Institutional Recreation

Mary possesses a very pleasant disposition. Any girl who can put up with the actions of a classroom full of guys has to be honored. Easy to make friends with and always willing to listen to everybody's sob story, Mary was a valuable asset to our class. Proud owner of two reserved seats in the Wolfe's Den now that Vicki has graduated.



OLIVER HAYES—Shaw A.F. Base, South Carolina

Municipal Recreation

R.O.T.C.; Intramurals

Tom spends most of his spare time in the gym, either lugging weights or taking part in intramurals. Has his hands full keeping Ozzie straight. A terrific friend if you take time to get to know him. Property of the Air Force after graduation.



DAVID G. HOBSON—Dunn, North Carolina

Park Administration

Rho Phi Alpha; Pinetum Photographer—R.R.A. Section

An outstanding likeable guy who is usually quiet. But when he does say something, you better listen; you'll probably learn something. What was that you said you worked on Dave? If Dave doesn't make it in the real world, none of us will.

P. TRENT HOLLAND—Clinton, North Carolina

Municipal Recreation

Football 1-4; North-South Shrine Bowl; R.O.T.C.

One of the mainstays of State's feared defensive team this past season, Trent is always up for a good time (not during the season of course. . . ???). Immediate plans include a position on Uncle Sam's All-American Defensive Team.



WALTER PHILIP KANOY—Thomasville, North Carolina

Rho Phi Alpha; Kappa Phi Kappa—treasurer; Football 1, 2; Wrestling 1-4

Phil's a real serious guy. A hard worker, he's probably the most dependable guy in the class. Doesn't say much, but once he's started, he's hard to stop! Phil hopes to become a coach.



JOHN S. LAWRENCE—Springfield, Pennsylvania

Rho Phi Alpha; Tau Kappa Epsilon; Swimming 1-4; All-American Swimming Team

John doesn't appear to have a serious side (until he's at the pool). Dedicated to harrassing Stokes into insanity. Expects to enter into another institution after leaving State . . . marriage.



BARRY C. LOCK—Belvidere, New Jersey

Municipal Recreation

rho Phi Alpha—historian; Kappa Phi Kappa—President; Xi Sigma Pi; Pinetum Associate Editor; Soccer 2, 3; Intramurals

Barry is a hard-working, studious Yankee. Well-known for his bright red "sportscar". Possesses a cheerful personality (and a somewhat sarcastic manner which many misunderstand), Barry is bound to be a success.



DAVID C. MUNHALL—Minnetonka, Minnesota

Municipal Recreation

Sigma Nu; Cheerleader

Dave's probably best known for his red and white saddle shoes. Promoter of school spirit and lots of the other kinds too, Dave always has a good story to tell. Word's out that he's pinned, so he'll probably have to give up those jobs in Europe he's dreamed about.



JAMES OSBORNE—Hampton, Virginia

Municipal Recreation

Intramural Athlete of the Year Award (1966-67); Dorm Athletic Director

Undoubtedly the best all-around intramural athlete on campus (Ozzie thinks so too!). Hard to understand at times, but a true friend to those who really know him.



ROBERT E. PARRIES—Mount Airy, North Carolina

Municipal Recreation

Lambda Chi Alpha; Intramurals

Bob is an easy going guy who manages to get along with everybody. Quiet at times, but a real *?/!-raiser when the opportunity presents itself. Like most everyone else, future plans include a tour with Uncle Sam.



JOEL E. PETERSON—Raleigh, North Carolina

Industrial Recreation

Rho Phi Alpha

Definitely the class clown; a gift of gab and a great personality promise to carry Mike a long way to success. Will long be remembered for his outstanding contribution to the Raleigh L.P.G.A. Tournament!



GEORGE EDWARD ROLLINS—Raleigh, North Carolina

Institutional Recreation

Rho Phi Alpha

One of the outstanding seniors, Ed (George?) plans to try his hand at teaching next year. Always capable of providing a humorous statement, Ed is one of the most popular guys (even if he is a "grit"). Thought that a Yankee was a baseball player until he came to college!



JOHN SMITH—Ruffin, North Carolina

Park Administration

"Marv" is a happy-go-lucky sort of guy who doesn't appear to let anything bother him (except 491). Marv's been accused of wearing sneakers to facilities so he can get to the union and back before the break is over.



ROBERT S. STOKES—Haddonfield, New Jersey

Park Administration

Rho Phi Alpha—President; Phi Kappa Phi; Intramurals

Easily the "Outstanding Senior" in our class, Bob plans to go to graduate school next year. Possessing a terrific personality and a desire for success, he's destined for a very bright and successful future. Awarded "Pabst Blue Ribbon" for obvious reasons, by those who know him best.

EDWARD RICHARD SYKES—Wendell, North Carolina

Physical Education

Varsity Golf; Track; Monogram Club

Dick's greatest ambition is to become a professional golfer and with a few breaks should make it.



JOSEPH SPEED JONES TURNER—Palmer Springs, Virginia

Park Administration

Rho Phi Alpha

"C.C. Speed" is funny without trying. Received "English" lessons from Yankees, but wasn't ABOUT to drop his accent. Probably received more harrassment at State in four years than any ten people combined. A truly terrific guy, Joe is bound to be a success (as long as he stays down South where he can be understood!).



JOSEPH TAYLOR—Raleigh, North Carolina

Industrial Recreation

Joe's quiet manner makes him a very likeable guy. A hard worker, Joe takes everything in stride and cannot help but be a success in the future.

JOHN H. WHITE—Sanford, North Carolina

Municipal Recreation

Swimming Team 1-4; All-American Swimming Team
John's quiet ways in class are quickly dropped outside of class. Easy-going John makes friends quickly. Served as assistant to Coach Casey this year.

JUDY WHITE—Statesville, North Carolina

Institutional Recreation

Usually you are able to hear Judy's contagious giggle before you see her. Displaying a sparkling personality and an endless smile, she wins friends easily. Destined for success (if she ever decides which option she's in!).



ROBERT L. WILLIAMS JR.—New Bern, North Carolina

Industrial Recreation

A very likeable, easy-going guy, Bob was liked by all. With his terrific personality and disposition, Bob can't help but be successful, no matter where he goes. (unless he has to square dance!)



JOEL D. WILLIAMSON—Sims, North Carolina

Municipal Recreation

R.O.T.C.

Always looking for a good time, Joel is easy-going and a friend of all. Next to Peterson's Paisley pants, he probably has the sharpest clothes (and the most). There's no doubt that Joel will make good after graduation . . . if he can survive without "The Knave".



WILLIAM STANLEY ULINSKI—Clark Mills, N. Y.

Recreation

WOOD TECHNOLOGY



ARTHUR SAMUEL AIKEN—Perryville, Maryland

Wood Technology

F.P.R.S.—President, Forestry Council

Art's from Maryland, but you wouldn't know it by his accent. He loves to talk about Judy, but not in the same breath with Short Roy's labs—especially 302. Art should succeed quite well in industry.



DWIGHT ELLIOT BULLOCK—Stokes, North Carolina

Wood Technology

F.P.R.S.

Dwight's got to be the greatest storyteller since Johnny Appleseed. He especially loves to talk about his "women," practicum, and the "mole." Dwight is liked by all and should do well after graduation.



FRED W. COMBS—Hertford, North Carolina

Wood Technology

Varsity football, Monogram Club, *Look* All-American

An All-American type guy. Remarkable how he survives considering everything he dabbles in. Liked by everyone, Fred is S. R.'s hero. He's worried about the draft too—NFL or AFL.



MARCEL DECELLES—Adamsville, Quebec, Canada

Wood Technology

One of "Roy's Boys," by chance not choice. Marcel is a hard worker and deserves the best. He had a language problem in Design, considering he had to translate twice. If Quebec rejects him, we'll gladly take him. Marcel is married and a papa.



MARC FRANCIS FRAMPTON—Pequanock, New Jersey

Wood Technology

Forestry Club, F.P.R.S., Wood Tech basketball, Floor counselor for Bagwell and Sullivan Halls

Personable Marc, the guy with all the great ethnic jokes, guaranteed to make you laugh (?). Not only is Marc witty, he's smart too. Remember the conclave, Marc? His "outcast" status is questionable, but he's with us at heart. If he can't take the wood industry, there's always catching Dixie cups with "Joe Willie."



RAY EVERETT FRY, JR.—Oil City, Pennsylvania

Wood Technology

F.P.R.S., Alpha Gamma Rho—Alumni Secretary, Rush Chairman

Ray has a sense of humor that sometimes gets him in trouble—as when he experienced "the wrath of the Mole" in practicum. He dresses "neatly" compared to some AGR boys. Ray is a Yankee so he can't be all bad.



DAN KELLY McNEILL—Warsaw, North Carolina

Wood Technology

F.P.R.S., Advanced ROTC.

"Short Dan" has come a long way for being from Warsaw, but not far enough for one prof.—ever since the "paddlefoot" incident. Chief of the outcasts, everyone thinks he'll make it big someday unless he marries one of those Knave women.



MARSHALL B. MURDOCK—Chester, Virginia

Wood Technology

Freshman and varsity football, Fellowship of Christian Athletes, F.P.R.S.

"Wiz," a charter member of the outcasts, has the driest wit of anyone. Sex was his coffee, and Nora was his cream; but now he's gonna marry and forget that bad dream. ZAP!!!



ANDREW S. NUCKOLS—Rocky Mount, North Carolina

Wood Technology

Xi Sigma Pi—Ranger.

Andy will be remembered for his candid comments concerning people, places, and profs. Just ask him what he thinks of Thomasville. He has coined some notable phrases, including: "Security is a B.S. in Wood Tech," and "Get right with Roy." Andy is engaged to a lovely lass and likes Ed Ames, John Gary, and "Joe Willie." Good luck, Nuck!



ROBERT EARL NYE—Clarkton, North Carolina

Wood Technology

Toby's straight B student on the S.R. chart—guess being married for three years taught him to keep his mouth shut. Actually he rates straight A's with the rest of the outcasts. Toby should do well after graduation; with a sweet little wife, he's already off to a good start.



KIMBALL WYETH RUSSELL—Badin, North Carolina

Wood Technology

Senior Forestry Senator, Student Government.

A Paul Smith's boy who has had his problems here, some of which include: a multi-blown mind, and a "human." He is being considered for membership in the outcasts since he aired his opinion about employment in furniture. With his "Copology" background, Kimball may be Alcoa's next safety engineer.



FRANK ROGER VANNOTÉ—Asbury Park, New Jersey

Wood Technology

Business Manager, 1968 *Pinetum*

"VanNote? Where's VanNote? Absent, hmm!" Phrases like that got Rog a charter in the outcasts. It could have been different if he had learned to shoot the bull on those processing quizzes. Nothing upsets easygoing Rog except the possibility of being "Daddy" twice.



MICHAEL CARL WIEMANN—Monroeville, New Jersey

Wood Technology

Forestry Club.

Mike has been a hard-working student since transferring from Paul Smith's. But he blew his cool by baring on "Roy's board" in practicum, and by becoming "Short Mole" in 302 lab. Mike, a dedicated wood teacher, prefers bordered pits to bunnies.



ALFRED L. WILLETT—Urbanna, Virginia

Wood Technology

Al transferred from VPI when he heard about the girls of Raleigh. He can usually be found in the Knave with his "date" named Carl (?).



That was a great party

GRADUATE STUDENTS

Forest Management

	STATE	DEGREE
Arrow, Keith Angevin	Oregon	Ph. D.
Barker, James Albert	Florida	Ph. D.
Blair, Roger Lee	Illinois	Ph. D.
Cole, Donald Eugene	W. Virginia	Ph. D.
Del Castillo, Romulo A.	Philippines	Ph. D.
Gauger, William Henry	N. C.	M. S.
Graham, George Robert	Canada	M. S.
Grefrath, Bruie Craig	N. Y.	M. S.
Hartung, Robert E.	Mo.	M. S.
Imam, Shah Ali	E. Pakistan	M. S.
Jervis, Laurens Gifford	N. C.	M. S.
Johnson, John William	N. C.	Ph. D.
Kirk, Herbert Julien	N. C.	M. S.
Kundt, John Fred	Virginia	Ph. D.
Laud, Samuel B., Jr.	Virginia	M. S.
Lantz, Clark Whitney	Conn.	Ph. D.
Moore, Allen Burnell	N. C.	M. S.
Paquin, John Richard	Virginia	M. S.
Plotkin, Henry Sidney	N. C.	Ph. D.
Puljada, Marcelino	Venezuela	M. S.
Rennie, John Charles	Ohio	Ph. D.
Robinson, William Milto	N. C.	M. S.
Sluder, Earl Ray	N. C.	Ph. D.
Sulaiman, Asham Sultan	Iraq	Ph. D.
Swindel, Benec Frank	N. C.	Ph. D.
Talhelm, Daniel Roderic	N. C.	Ph. D.
Usanis, Richard A.	Conn.	Ph. D.
Vermillion, Thomas Irwi	N. C.	M. S.
Weber, Andrew John	N. C.	M. S.
Webster, Steve R.		Ph. D.
Woessner, Ronald Arthur	W. Virginia	Ph. D.

Wood Science and Technology

Adams, Donald Gene	Louisiana	Ph. D.
Ali, Mohammed Omar	E. Pakistan	Ph. D.
Bienias, Ronald Marion	Illinois	M. S.
Brewer, Stanley Wayne	N. C.	M. S.
Broughton, R. M.	N. C.	Ph. D.
Byrd, Von Lenord	Wisconsin	Ph. D.
Campbell, Gordon G.	Iowa	Ph. D.
Cleveland, John Adams	N. C.	Ph. D.
Fetters, Thomas Parker	Michigan	M. S.
Gladstone, William Tur	New York	Ph. D.
Harris, Aubrey D., Jr.	N. C.	M. S.
Hedgecock, James Stanley	N. C.	M. S.
Holder, Charles D., Jr.	N. C.	M. S.
Kelly, Myron William	New York	Ph. D.
Myers, Thomas Wayne	N. C.	M. S.
Parham, Russell Aver	N. C.	M. S.
Parker, Home Vann III	N. C.	M. S.
Salehuddin, Rbul B. M.	E. Pakistan	Ph. D.
Tang, Ruen Shiu	Taiwan	Ph. D.
Taylor, Ray Stanley	N. C.	M. S.
Tice, William Eddie	N. C.	M. S.
Wooten, Thomas Ernest		Ph. D.
Zicherman, Joseph B.	N. C.	M. S.

Pathology

Amburgey, Terry L.	New Jersey	Ph. D.
Basham, Grant	Virginia	M. S.
Donne, John	N. Y.	Ph. D.
Fakir, G. A.	E. Pakistan	Ph. D.
Greaves, Harry	England	Postdoctoral
Kirk, T. K.	Louisiana	Ph. D.
Kinloch, B. B.	S. C.	Ph. D.
Miller, Thomas	N. C.	Ph. D.
Scheld, H. William	N. C.	Ph. D.
Snow, G. A.	Miss.	Ph. D.

Soils

Danielson, R. M.	Washington	Ph. D.
Gregory, J. D.	N. C.	M. S.
Ike, A. F.	Georgia	Ph. D.
MacCarthy, R. G.	Ireland	Ph. D.
Webster, S. R.	Washington	Ph. D.

Ecology

Gibbon, Edward Lee	Virginia	Ph. D.
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Entomology

Cole, Walter E.	Utah	Ph. D.
Fatsinger, Carl	N. C.	Ph. D.
Hunt, Thomas	N. C.	M. S.
McGraw, James R.	N. C.	M. S.

Genetics

Smouse, Peter Edgar	California	Ph. D.
Stock, David Allen	Ohio	Ph. D.

Zoology

Cordes, Carroll Lloyd	Texas	Ph. D.
Fields, Hugh Martin	N. C.	M. S.
Hamilton, Richard Bache	Virginia	M. S.
Kyles, Alan Lindsey	N. C.	M. S.
Raybon, Wulker Howell, Jr.	N. C.	M. S.
Rogers, John Gilbert, Jr.	N. Y.	Ph. D.
Smith, Ned Britt	N. C.	Ph. D.
Whitley, Mary Jo	Virginia	Masters

Unclassified

Bergman, Axel	Sweden	Non Degree
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SCHOLARSHIPS AND AWARDS

HOMELITE AWARD

Coffey, Albert	Smith, Henry
Glass, George	Staff, Mark

CONTINENTAL CAN COMPANY SCHOLARSHIPS

Harper, John D.	Nuckols, Andrew S.
Henderson, James V.	Shankle, George D.
Norton, William R., III	

THE GARDEN CLUB OF NORTH CAROLINA, INC. AWARD

Montague, Roger Wilson	Smith, Henry Donnell
Nicholas, Andrew K.	Williams, Howard C.
Sharpe, Danny Dale	

UNIVERSITY SCHOLARSHIPS

Callahan, Raymond Nelson	Lamont, Andrew M.
Chadwick, Dennis Wayne	Lock, Barry Charles
Cooke, Jean Fry	Pinnell, Robert Summers
Cothorn, William Hodges	Sain, James Franklin, III
Gerringer, Edward Melver	Shirlen, James Daniel
Griffin, Larry G.	VanNote, Frank Roger
Hardison, Thomas Wade	Webb, Josiah Anthony
Ivie, Walker Lawrence, III	Whisenant, John Murray
Kanoy, Walter Phillip	Williams, Douglas C.
Keir, Danny Blair	Wilson, Monty D.

ATHLETIC AWARDS

Alford, Michael	Loftin, Jerry Stewart
Anheuser, Lee Richard	McDuffie, John Rhodie
Barchuk, Anthony Patrick	Martell, Harry Richard
Biedenbach, Edward Joseph	Mason, John Leon
Biega, Louis Emil	Metts, Carey G.
Bradford, Thomas Larry	Moore, Jerry Arthur
Bradley, Donald H.	Morrow, William J., III
Bradsher, Johnny Robert	Nicholas, Edward J.
Braucher, Richard A.	Perotti, John
Brookshire, Terry Hilliard	Punch, Dennis Loy
Byrd, Dennis Wayne	Serdich, Joseph M., Jr.
Carpenter, Ronald N.	Smith, George Lewis
Cates, Norman Lester	Solonoski, Andrew S., Jr.
Cheek, Clyde Alexander, Jr.	Spangler, Lloyd Christian
Combs, Charles Francis	Szabo, Joseph Lawrence
Combs, Freddie Wilson	Tope, Charles Robert
Craig, William B.	Trifunovic, Dragoljub
Diacont, Stephen C.	Trifunovic, Nickola
Donaldson, Donald D.	Vincich, Richard
Donnan, James Mason	Waleski, Arthur Frank
Douglass, John William	Watkins, Ronald Frank
Gutshall, Mervin W., Jr.	White, John Howard
Hamilton, Lee Roy, II	Whitley, Eugene F.
Holland, Percy Trent	Williams, Gregory H.
Isley, Nelson Guillian	Williams, William A.
Klebe, Jack W.	Wirth, Ronald Lee
Lawrence, John S.	Yount, Gary Edwin
Lewis, Robert Wayne	

BILTMORE WORK SCHOLARSHIPS

Crum, George Scruggs
Houston, Carl Wayne
Williams, Howard C.

CONGER WORK SCHOLARSHIP

Goforth, Edmond J., Jr.
Hardison, Thomas Wade

N. C. RECREATION AND PARK SOCIETY SCHOLARSHIP

Hicks, Larry

WINN-DIXIE SCHOLARSHIP

Embler, Paul Conley, Jr.

CHAMPION PAPER FOUNDATION

Ammons, Dennis Allen

LEA LUMBER AND PLYWOOD CORPORATION

Baker, John Calvin, Jr.

FRENCH BROAD RIVER GARDEN CLUB

Whisenant, John Murray

AUBREY LEE BROOKS SCHOLARSHIP

Watkins, William Carroll

NATIONAL MERIT SCHOLARSHIP

Prichard, John F.

PULP AND PAPER FOUNDATION SCHOLARSHIPS

Adams, Dan Allen
Adams, William Cary
Allen, Ronald Clark
Allison, Robert William
Armstrong, William Daniel
Ashcraft, David Lee
Bailey, Mack William
Boggs, Joseph Wilder
Brenton, Michael John
Brown, George Ronald
Burns, James Dale
Coker, Jerry Furman
Collier, Samuel Kirkbridge
Dykes, Clarence Allen
Fowler, David Earl
Frye, Carroll Edward
Furlough, Thomas Eugene
Gardner, Charles S., Jr.
Gibson, Joseph Tilman
Harrison, Ray Edward
Hartman, Larry Hux
Haynie, Raymond Riley
Hazelwood, Carroll Thomas
Hickerson, Gary Douglas
Horne, Larry Edward

Howard, Ernest E., Jr.
Hungerford, Bruce Carter
Johnson, Andrew Louis
Johnson, Lawrence Julius
Jones, Elliott Wright
Kelly, Barry Thomas
Lawson, James Edward
Lennon, George Edward
Lewis, Joseph Terrell
McLemore, Charles Edwin
Madison, Wilson Ross
Marks, Robert
Martin, Marcus L.
Nall, Jimmy R.
Queen, Richard Keith
Rabb, Thomas Calvin
Reeves, John Blair
Respass, Johnnie D.
Shelfer, Jonathan Wayne
Shirley, Ranell Delron
Snellings, William R., Jr.
Tamsberg, Joseph Lane, Jr.
Tant, Ronald Richard
Wade, William Hamilton
Ward, Michael E.



Would you hire this man?



Homelite presentation by representatives Russell Shrum and Jim Gatlin to Marc Staff and Henry Smith.



Freshman axe presentation by Forester Mack Baily to Allan Dykes.

PROGRESS REPORT FOR 1967-68

By

R. J. PRESTON, DEAN

As a result of our rapid expansion, the name of the school was changed this year to the School of Forest Resources, as better describing our broadening programs. At the same time the Department of Forest Management was renamed the Department of Forestry and the Department of Recreation and Park Administration was renamed the Department of Recreation Resources Administration.

Curricula changes included major revisions in the curriculum of recreation and park administration; the development of a new natural resources recreation management curriculum; and the establishment of a curriculum in conservation, which is jointly administered by the School of Forest Resources and the School of Agriculture and Life Sciences.

Plans for the new forestry facility are complete and it is anticipated that construction will get underway this spring. This new four-story building, and a third story to the Robertson Laboratory of pulp and paper will provide the laboratories and offices needed for the rapid growth of the school.

STUDENTS

Enrollment this fall totaled 671, with 586 undergraduate students, 35 masters candidates, 48 Ph.D. candidates and one postdoctoral student. In total undergraduate enrollment the School ranked fourth in the nation, but first in both recreation and wood technology. The School ranked fifth in number of bachelor of science degrees awarded, eighth in master's degrees (first in wood technology), and second in the number of Ph.D.'s awarded.

We are proud of the quality of our student body and of the fine records made by our graduates. While many of our students come to us from rural communities and are not adequately prepared for a rigorous university curriculum, the overall ability of the student body measures above the university average. The conscientious guidance provided by faculty advisers has done much to help poorly prepared students overcome their handicaps and make satisfactory records. We are proud of the scholarship programs which attract many outstanding students to the school, especially the regional pulp and paper scholarships. As indicated in the table below, qualified students having financial need do receive help.

SCHOLARSHIPS, GRANTS AND LOANS TO FORESTRY STUDENTS

<i>Number</i>	<i>Type</i>		<i>Value</i>
71	Athletic Awards	\$ 100,418	
45	Pulp & Paper Found. Awards	36,168	
34	Other Foundations, etc.	24,029	
11	Institutional Grants	3,550	\$ 164,165
25	Educ. Opportunity Grants		8,775
186	Total scholarships and grants		\$ 172,940
61	Nat'l. Defense Student Loans		26,300
247	Total scholarships, grants and loans		\$ 199,240

FACULTY

Our on-campus teaching and research faculty number 48 and these men are supported by 13 distinguished scientists and professional workers who are not located on the campus, but hold adjunct professorships with the school. Our Extension faculty of 15 make it the largest program in the country. Following are the highlights of faculty changes and achievements.

We were all shocked and saddened by the untimely death of Professor Albert R. Crawford on December 1, 1967. Al had been a member of the R.P.A. faculty for 22 years as well as serving as wrestling coach. All of our R.P.A. alumni as well as many in other departments in the school knew and respected Al as a gentleman and friend.

Recognition and honors have come to many members of the faculty and space permits mentioning but a few of these:

1. Dr. A. C. Barefoot continued his dendrochronological study of old timbers in Winchester, England during the summer and was elected a fellow in the British Institute of Wood Science.
2. Dr. R. C. Bryant is serving as chairman of the Appalachian Section of the Society of American Foresters.
3. Professor Roy M. Carter is serving as president of the N. C. State University Faculty Club.
4. Dr. Jack W. Duffield is chairman of the University's Faculty Senate, and has been awarded a Fulbright Professorship to Yugoslavia next year.
5. Dr. Charles B. Davey and Dr. T. E. Maki are serving on the Planning Committee for the Third North American Forest Soils Conference to be held on the campus in August.
6. Dr. James Hardin received the Outstanding Teacher Award and was also elected Vice Chairman of Sigma Xi.
7. Dr. Gene Namkoong and Adjunct Professor Dr. Roy Stonecypher presented papers at the Quantitative Genetics Sessions of the I.V.F.R.O. Congress in Munich, Germany in early September and later toured research centers in Sweden and the British Isles.
8. Dr. Tom O. Perry is on leave of absence this year on a Charles Bullard Fellowship at Harvard University, writing a textbook on silvics.
9. Dr. L. C. Saylor received the Sigma Xi Award for outstanding research in the University.
10. Dr. Vivian Stannett was awarded the TAPPI medal for distinguished accomplishments in paper chemistry. He also visited Japan and Thailand under the auspices of the A.E.C.
11. Professor Charles Stott is serving as president of the North Carolina Recreation Society.
12. Dr. Bruce J. Zobel continues his extensive travels, lecturing at several universities, attending an FAO Conference in Rome, and aiding pulp and paper companies with problems on their Brazilian plantations.

NEW APPOINTMENTS

Four new appointments were made to the Extension faculty:

1. Hugh H. Fields, Wildlife Extension Specialist, moved into Kilgore Hall with a joint appointment with Forestry Extension.
2. Wayne Haines, formerly with Union Camp Corporation, replaced William B. Stuart who resigned.
3. Stephen J. Hanover, formerly in the University of Kentucky Extension program, replaced Nick Wiedhaas who resigned.
4. A. G. Mullin, who received his master's degree from Duke University, replaced Ron Thomason who left us for industry.

Nine new appointments were made in the teaching and research faculty.

1. Dr. Fred Barkalow, who has headed the program in wildlife science in the Department of Zoology for many years was made a joint appointee in the Department of Forestry.
2. Dr. Larry F. Grand, was employed as assistant professor of Forest Pathology with a joint appointment with the School of Forest Resources and the Department of Plant Pathology.
3. Dr. B. E. Griessman, assistant professor of Sociology was given a joint appointment in the Department of Forestry.
4. Dr. Yu-Wen Hsu was appointed Assistant Professor in the field of Wood Mechanics to replace Dr. Ben Jayne.
5. Mr. L. G. Jervis was appointed Research Associate to work with Dr. Bryant on managing the school forests.
6. Dr. Knut Kringstad was employed as Associate Professor of Wood Chemistry. Dr. Kringstad came to our faculty from the Norwegian Pulp and Paper Institute.
7. Mr. Thomas Lloyd, an employee of the Southeastern Forest Experiment Station, joined our forest biometry group.
8. Mr. Charles N. Rogers was appointed Associate Professor of Pulp and Paper, replacing Professor H. D. (Doc) Cook who retired last year.
9. Dr. Vivian Stannett in the Department of Chemical Engineering, was given a joint appointment with the Department of Wood Science and Technology.

In addition to these nine permanent appointments, two world renowned geneticists have strengthened the school program this year:

1. Dr. Ake Gustafsson of the Royal College of Forestry, Stockholm, Sweden, is with us the spring semester on a National Science Foundation Senior Foreign Scientist Fellowship.
2. Dr. G. Ledyard Stebbins of the University of California spent a week with us presenting the University Harrelson Lectures.

RESEARCH

The nature of research has changed markedly in the last decade, becoming more complex and involving use of very sophisticated tools. No longer can scientists work effectively as individuals, but the team approach involving a number of disciplines has become essential. The phrase "critical mass" is commonly used, referring to a team of scientists of sufficient number and backgrounds to work effectively and the school has developed this "critical mass" in several areas of endeavor.

FOREST BIOLOGY.

The 24 distinguished scientists in this group (which includes the Genetics and Forest Pathology faculties referred to below) comprise one of the largest concentrations of forest biologists extant. Meaningful programs of research are now underway in such areas as ecology, entomology, fertilization, game management, hardwood management, hydrology, physiology, reforestation, silvics, soils, and taxonomy.

FOREST GENETICS.

Seven scientists make up the forest genetics team who are supported by a University genetics faculty of more than forty Ph.D.'s, (the largest genetics faculty on any campus). In addition two distinguished visiting professors and a postdoctoral fellow have added strength to our genetics program this year. The genetics program includes the N. C. State-Industry

Cooperative Tree Improvement Program, (the largest such cooperative in the world), which is supported by twenty-one large pulp and paper companies and three state forestry organizations in thirteen southern states with land holdings of more than 12,000,000 acres.

FOREST PATHOLOGY.

The eight scientists in this field, supported by some thirty Ph.D.'s in the overall field of plant pathology, comprises the largest program in forest pathology in the country. The nine Ph.D. candidates and one postdoctoral student enrolled also lead the nation.

FOREST BIOMETRY.

A significant new effort has been the development of a graduate and research program in forest biometry cooperatively undertaken by the School and the Southeastern Forest Experiment Station. Five scientists comprise this term and a sixth position is awaiting a qualified candidate. This group is supported by the University's Department of Experimental Statistics and is connected with the Research Triangle Computation Center's IBM 360-70 through a remote console unit in the school.

WOOD CHEMISTRY.

This year the appointment of Dr. Kringstad and the joint appointment with chemical engineering of Dr. Stannett has developed a wood chemistry team probably unique in forestry education. Dr. A. J. Stamm, Dr. Wyn Brown, Dr. Ellis Cowling and Dr. Kent Kirk, already on the faculty, are the other able scientists in this group and they are supported by our pulp and paper faculty.

NEW PROGRAMS

An administrative change was made this year to increase the efficiency and improve the coordination of our cooperative programs in tree improvement and hardwood research. While maintaining their separate identities, both programs are now under the supervision and direction of Dr. B. J. Zobel.

For several years the school has been interested in developing a program in tropical forestry. Members of our faculty organized two expeditions to collect seed of Mexican pines, studied the slash pine complex in the Caribbean, and consulted with governments and industries in Latin America on forestry problems. This year the forestry school at the National Agrarian University in Peru requested that our school help them develop their program and in December the dean spent about two weeks in Peru becoming familiar with the problems and opportunities. The Agency for International Development is being requested for funds to support this Peruvian project.

Also this December, the University of North Carolina joined the Organization for Tropical Studies, a consortium of twenty-one universities, and the dean will spend February and March studying problems in tropical forestry in Honduras and Costa Rica.

In summary this has been a good year for the school. Distinguished scientists have joined our faculty; our research and extension programs have been productive; enrollment has increased; and the demand for graduates exceeds supply, with starting salaries reaching new highs (for the last three years the starting salaries for pulp and paper graduates have been the highest in the university).



Ralph C. Winkworth

Ralph C. Winkworth was born in Syracuse, New York on March 9, 1920, and graduated from New York State College of Forestry at Syracuse University in 1941. He served in the U. S. Navy during WW II, and is presently a Captain in the Naval Reserve.

Mr. Winkworth has been with the N. C. Division of Forestry since 1948, and has served in the positions of district, management, prevention and regional forester. He was appointed State Forester on July 1, 1966.

A LOOK AT STATE FORESTRY

By RALPH C. WINKWORTH
State Forester of North Carolina

The period beginning now and extending through the rest of the twentieth century will bring state forestry into its own as a powerful force in the lives of all North Carolinians. It will be a crucial time for those of us charged with developing the right programs and administering them with the needed managerial skills. For the young forester, it will be an exciting time to begin a career of public forestry with the North Carolina Forest Service.

These statements are true because our State Forest Service has reached an important milestone in its development. North Carolina has recognized its forest resources, its forestry problem, and its Forest Service. To those of us who have devoted our careers to the cause of state forestry, this means the end of a pioneering crusade and the beginning of a challenging and dynamic program of multiple use management for a twenty million acre forest.

We have finally convinced the public that it makes good sense to plant pine trees, to show a logger which trees to cut, and to put out woods fires. Don't think for a moment that it was easy or that better men could have done it in less than forty years. Every young forester should have the opportunity of listening to some of the old-timers tell of their early difficulties in selling forestry. There is no better way to gain confidence in facing today's problems.

It is ironic that the hardest battle of all has been in the area of state forestry's most obvious need, forest fire control. We have come a long way since our early fire wardens began their attack on the age-old custom of annual woods burning. Armed as they were with crude hand tools, ridiculous budgets, and a strange new badge, it is little wonder that their's was a seemingly hopeless job of educating the public, let alone controlling the

fires which literally burned everywhere. It would have been just too much for those early forest rangers to believe that the Forest Service would someday spend more money to operate one air tanker than they had available in their entire state forest fire control budget.

But now the average citizen has learned that a forester is more than an educated timber cruiser and that he doesn't work in a lookout tower. Tree seedlings are planted by the millions and the idea of better trees through genetics has been accepted. On television the public has seen impressive arsenals of forest fire equipment and it has become quite obvious that the suppression of a large fire is a highly organized operation. Even the idea of sustained yield management has gotten through—possibly too well—as the forester who has had to explain even-aged cutting practices to the public will testify. Probably the real clincher in giving our foresters professional status in the eyes of the public has been our pest control program. Everyone seems to have trees with insects or disease problems and, like personal health problems, most people like to talk about them. Yes—, the public now knows who we are and what we can do. It looks to us to protect and to develop the state's forest resources and to perpetuate the many benefits it has accepted from North Carolina's abundant forests.

This is the assignment for the state foresters of tomorrow and it is no ordinary task. What the public does not comprehend are the problems which lie ahead in managing these resources during the next thirty years. Indeed, forestry leaders have been slow to assess the net product of the many demands which will be placed upon our forest land during the next three decades. We seemed to have been engrossed in the individual elements of the problem without seeing the entire picture. It took the most



A seedling with grafted scion wood from a superior tree. This tree may produce seed for future reforestation. N.C.F.S. Photo



Loblolly pine seed orchard at Claridge Nursery. The future supply of pine seed will come from seed orchards in the next few years. N.C.F.S. Photo

recent Forest Survey reports, coupled with the projections in Timber Trends, some quick arithmetic, and a careful look at our expanding wood-using industries to get the point across. The plain fact is that we must raise the productivity of the average acre of private forest land by a whopping sixty-five percent by the turn of the century to meet our needs in timber production alone. Furthermore, we must do this, not on our present forest acreage, but on what is left in commercial forest land after withdrawals.

The non-timber demands upon our forest land, at least in terms of area needs, have been sold to the public more effectively than has our timber supply problem. The need for more land to provide outdoor recreation for an exploding population of people with more time on their hands and more money in their pockets is self evident. But that is as far as the simple answers go. How many of these people will want forest recreation; how much land will they require; and particularly, how much land should be designated for exclusive recreational use are questions with anything but self evident answers. We foresters have failed to accept leadership in this vital problem of forest resource management, let alone come up with quantitative answers. The recreationists have run with the ball and have given us some long yardage to make up when we finally start calling the signals. Certain elements of the recreationist group have shouted loud and clear for land withdrawals in proportions completely inconsistent with the needs of timber production. Despite some serious discrepancies in their story, they have strong public support at this time.

The recognition of pure water as our most precious resource has finally been realized. But the number of new dams and the size of the reservoirs planned for the future makes us wonder where sound water conservation stops and where the pork barrel and water as a sacred word take over.

These are the big withdrawals, but the steady and necessary demands of urbanization for everything from highways to shopping centers also shrink our timberlands. At best, it will be a struggle to keep a marginal base of workable land.



Site preparation for planting. The drum chopper begins the process that will start the new forest. N.C.F.S. Photo

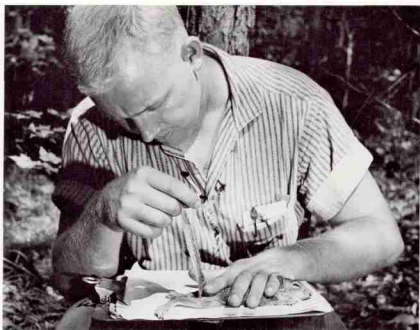
What is to be done? The courses of action are clear enough. It is the execution which will be the large order. First, the possibility of sound multiple use management must be explored in all types of ownerships. We can't afford anything else except in truly unique situations. Neither can we afford to have thirty percent of our commercial forest land supporting stands of worthless brush. We must get our land into production and then manage it intensively. And we certainly cannot go on letting more than a hundred square miles of good timberland burn over each year.

We in the State Forest Service must assume major responsibility for our private non-industrial ownerships. A lot of intensive forestry must be practiced on the lands of these two hundred and forty-five thousand individual landowners in North Carolina. This group owns seventy-nine percent of the forest land and provides eighty-five percent of the timber cut. This is the under-productive and non-productive land. These are the forests which must be made more productive.

How can all this be done? Certainly it will take long range programs—bold and productive programs. It will involve converting misused lands into productive forests, applying sound management to our existing stands, and drastically reducing the losses from fire, insects, and diseases. All of this must be done in a big way, and it must be done now. The results needed in the year 2000 depend upon what we do during the next ten years. Because of this time factor and because we are dealing with millions of acres, our action programs must be decisive and our results positive. Program planning will demand imaginative thinking. The familiar program structure used by all state forestry agencies will become merely the backbone of a series of new activities, most of which have not yet been conceived. More of the same will not begin to get the job done.

Fortunately, our government leaders seem to be grasping this problem faster than we foresters did. As businessmen, they are quick to see the economic impact of a raw material shortage in North Carolina's billion dollar forest industry. They know that we have more forest land than ninety percent of our sister states and that the forest economy will always be vital to North Carolina. They also know the value of our tourist industry and the advantages North Carolina has to offer in outdoor recreation. Sound state forestry programs, if properly presented, will be supported by our state officials and by our legislature.

Getting this job done, producing this much wood, providing adequate recreational facilities, developing our watersheds, and protecting our forests from loss—this will be the challenge for tomorrow's foresters who choose state forestry as their career. It won't be any more difficult than selling the new idea of forestry to a doubting public, but it will certainly be a different job of state forestry. It will require much greater technical competence and the scope of forestry will extend to horizons which are not yet in sight. State forestry will continue to attract good men because it will still offer the greatest challenge. They will get this big job done on schedule. And I'm afraid that they will enjoy their jobs even more than we have enjoyed ours.



Those nosey #*?! Humans!



Have you eaten at Harris'?

THE NEW LOOK IN FORESTRY

By

J. O. LAMMI

The good life is man's legacy from nature. The source of the good life is the Forest which provides man with shelter, clothing, nourishment, materials for his education and water for his crops and homes. The forest beautifully rejuvenates and enhances man's spirit with the beauty of landscape, the fragrance of wild air, the solitude of its primitive fastnesses. It is man's solemn responsibility to guard and nurture this source of the good life, to keep its water pure, the air clean, the sunshine sparkling, for himself and all who come after him for all time.

ANONYMOUS

The above paragraph expresses a dimension of forestry which goes beyond the traditional preoccupation with multiple use. The forester is not only a multiple use manager but also a custodian of man's environment and a research scientist in the many facets of the world around us.

Some aspects of the "environmental conservation" dimension of forestry are discussed by Messrs. "Q" and "A":

Q: *You say that multiple use no longer adequately describes forest management objectives, why?*

A: Multiple use was concerned with producing various goods and services from the forest, but foresters now often find themselves more concerned with forest influences than with goods and services.

Q: *What's new about forest influences? We have been working with them for years.*

A: The influences which now figure so strongly are not the traditional influences of the forests on wind, water and snow but the influences of the ecosystem, especially on the humans that are a part of it.

Q: *The ecosystem? What the heck is that?*

A: It is the community of human beings and other forms of life in an environment.

Q: *All right then, what are these influences that you are talking about?*

A: Not all of them can be clearly identified because they combine to give us the "good life" which the anonymous author describes.

Q: *Can you identify a few anyway?*

A: Well, yes, these days we are very conscious of the need many people have for relaxation, for tranquility and even solitude.

Q: *Isn't all that part of recreation, which is one of the multiple products the foresters have produced for years?*

A: Only to some extent, because recreation takes on many forms. I'd like to correct you slightly too: you say recreation is one of the multiple products of the forest, but it isn't.

Q: *What do you mean by that? Everyone knows recreation is a forest product.*

A: Recreation is an act of consuming forest products. It usually consists of non-destructive consumption of scenery, clean water, solitude and fresh air.

Q: *Are you saying that foresters don't produce recreation?*

A: Right, people use recreation, the forests supply the products and the environment needed for recreation.

Q: *What's the difference?*

A: The whole idea is that the forest manager has to plan for the multiple products, as he always has, as well as for the maintenance of the environment.

Q: *What does that mean? Sounds like Lady-Bird talk.*

A: What it means is that tranquillity and solitude are increasingly valuable forest products, and their production requires control of people, their numbers, where they are and what they do.

Q: *That sounds pretty bad. How can people benefit from the forests if they are tightly controlled?*

A: With more people in the wood unfortunately we need more control, so the environment which makes enjoyment possible will be protected.

Q: *Rules, rules, rules that's all we hear these days. What are some of these new regulations to protect the forest environment?*

A: Noise control: motors are kept out of the wilderness, machines such as tape players, radio and TV are not allowed in the forest. Many forest areas already have these rules.

Q: *What other regulations can we expect besides noise control?*

A: Well, solitude means being alone, therefore, numbers of users must be regulated.

Q: *Isn't this objectionable? It keeps people from using areas that belong to them.*

A: If you want solitude you have to pay for it through the controls that will guarantee it.

Q: *You have mentioned only the "peace and quiet" influences, are there any others?*

A: Yes, many of them. Consider, for example, the influences of the forests in maintaining cleanliness in the ecosystem.

Q: *What do you mean by that?*

A: Clean water, clean air, clean sunshine.

Q: *Is that something new? Foresters have always been interested in these.*

A: The idea is new only in the management sense. Foresters find that the "cleanliness" influences have gained greatly in importance lately and require more of their conscious attention.

Q: *What do you mean by "conscious attention"?*

A: Burn slash only when air pollution problems are minimal, locate industries so that smoke and smells won't annoy people, always keep the air as free as possible of smoke, smog and dust so the sun can come through clearly.

Q: *What is that going to do to forest management where prescribed burning and slash disposal will smoke up the atmosphere?*

A: Probably less burning and the selecting of days when smoke will move away from areas of human use.

Q: *Isn't it pretty hard to isolate necessary forest management from human attention? Aren't we always going to be criticized because we are burning, or smelling up the atmosphere, or causing a mess by clear cutting, or disturbing travel with log trucks?*

A: Yes.

Q: *What do you suggest to do about it?*

A: Two things: (1) adjust forestry activities to conflict as little as possible with the "environmental influences", and (2) orient the public to accept forest management.

Q: *Go ahead, what action can you take to do these two things?*

A: You already heard some proposals for adjusting forest management to "environmental influences". The adjustment requires, above all, some careful planning and a sensitiveness on the part of the forester to what should or should not be done. Furthermore, the manager can expect some added costs; he can't adopt the least expensive logging plan, for example, without considering the "environmental influences", and therefore may need to adopt a more costly plan in order to safeguard the environment.

Q: *Come on, now, what logging manager worries about the "environment"? His job is to get the logs out at least cost!*

A: You may be right that not many logging managers worry about it, but the fact remains that it's now time to worry because the alternative is political pressure to control logging and other forestry activities. This pressure often comes from people who know nothing and care less about logs or multiple use, but think they are protecting the environment.

Q: *O.K. Maybe the loggers and foresters better assume more of the leadership in guarding and nurturing the sources of the "good life", but what about your second suggestion, the orienting of the public? What is involved in this?*

A: Foresters can put across their ideas on what should be done in the forests if they become active role players.

Q: *What's a "role player"?*

A: He participates in community activities and through his cooperation with others he gets others to cooperate with him. This activity leads to favorable opportunities to influence the "conservation" thinking in the community.

Q: *How does he do this "participation" bit?*

A: Some of his participation is voluntary and spontaneous, some is by deliberate organizational plan and direction.

Q: *What do you mean by that?*

A: Some community activities may come naturally, for instance he may join a bridge club because of a liking for the game and the players. On the other hand, the firm or agency might wish to have representation in all local civic clubs and may assign individuals to join these clubs. In addition to the forestry representation in local citizen groups an effective public relations move might be to identify and cultivate the acquaintance and forestry participation of local influential citizens. Many "conservation" agencies now use influential citizens as members of "advisory" committees.

Q: *Does the above exhaust the possibilities for "orienting" the public to accept forest management?*

A: Not at all. The community contacts mentioned may reach only those already in fairly close touch with renewable resource conservation.

Q: *Who else is there?*

- A: People in larger cities, young men and women not yet active in community organizations and many others.
- Q: *Any ideas on what to do about them?*
- A: One worthwhile forestry trend already observable in the loosening-up of the technical requirements of forestry schools.
- Q: *How does this help orientation?*
- A: Forestry graduates have had more chance to learn about the handling of people, which is often a bigger problem than the management of tree cover. These graduates can do a better job of influencing the public toward the foresters' idea of conservation.
- Q: *Why not get students from outside the forestry school to take courses in which they learn about conservation?*
- A: A good idea and, in fact, many forestry schools are allowing non-foresters to enter forestry classes or are providing special service courses to the rest of the campus community.
- Q: *You mentioned concepts such as "conservation" and "renewable resource management". Do you think these terms are generally understood?*
- A: No.
- Q: *Will you elucidate?*
- A: Let's talk about it later, it's time for my coffee break.
- Q: *Before you take your coffee break, tell me, where can I find out more about "conservation and renewable resource management"?*
- A: The latest ideas are debated in seminars of the School of Forest Resources.
- Q: *Can anyone attend these seminars, or are they restricted to students?*
- A: Anyone may attend most of them and non-students usually are especially welcome. Many kinds of short courses are also available throughout the year.
- Q: *Your discussion has been about "environmental conservation" which you claim is taking the place of multiple use as the objective of forest management. What else is new in forestry ideas?*
- A: I already told you it's my coffee break time, so we'll have to talk later, but a quick look at what's going on in the School reveals that a lot of attention is being given to several ideas: the quantification of forestry data for decision making, operations research and planning, integration of management concepts into systems analysis, environmental remote sensing, development of super-trees through selection and genetics, the up-grading of hardwood management, forest fertilization and soil management, basic understanding of forest pest control, new technology of growing and harvesting, and many others. I haven't said much about harvesting, processing and selling except for the environmental products of the forest.
- Q: *Many thanks, looks as if forestry is in a process of developing a lot of new stuff.*
- A: Yes, this is the second revolution in American forestry. The first was 70 years ago when Pinchot and Roosevelt introduced the conservation concept.

PAUL SMITH'S COLLEGE

By RICK WEIGLE

Each year a number of students transfer to the School of Forest Resources from Paul Smith's College. Paul Smith's is a small (approximately 850 students), two-year college situated in the Adirondack Mountains of northern New York state. It is located approximately fifteen miles north of Saranac Lake, New York, near the popular Lake Placid Ski Resort Area.

Paul Smith's College was founded in 1938 and was named after Apollos Smith, the man who originally built up Paul Smith's as a resort for hunters, fishermen, and others who journeyed to the mountains for a vacation. Much of the original resort has burned in several fires.

Paul Smith's College is composed of three departments. There is a Department of Forestry, a Department of Hotel Management, and a Department of Liberal Arts. The Liberal Arts Department is much smaller than the other two.

In both the Hotel Management Department and the Forest Department, two different programs of study are offered. These are the pre-professional and the terminal programs. The pre-professional program is designed for a student who will want to transfer to a four-year school upon graduation from Paul Smith's. The terminal program is designed for the student who wants only two years of formal education before beginning a job in his career field. Students can, however, transfer to a four year school from their terminal program. This usually results in fewer credits being transferred.

The Liberal Arts Department offers an Associate in Arts Degree, while the Forestry and Hotel Management Departments offer the Associate of Applied Science Degree.

Paul Smith's College provides excellent practical training in the Departments of Forestry and Hotel Management. The college owns the Hotel Saranac, in the town of Saranac Lake, which is operated by students. The College also owns more than forty thousand acres of land on which forestry students receive practical training.

Paul Smith's started out originally as a Hotel Management School primarily, but since has leaned more toward forestry. Each year the enrollment increases in favor of the Forestry Department rather than the Hotel Management program.



Paul Smith's Sawmill

SOME IDIOSYNCRACIES OF WOOD PRODUCTS INNOVATIONS

By
PROFESSOR ROY M. CARTER

Man's ingenuity and compulsion has led to new and better uses of wood. Historically, man has used forest products—wood—for shelter; for weapons to protect himself, family, tribe or clan; for hunting game to obtain food; and for fuel to derive more pleasure and comfort from food and shelter. How much change has there really been in wood utilization since the cave dweller moved into wood shelters? Is the greatest change due to the complacency of men and the lack of creativity?

We no longer make striking tools for weapons but for construction aids—hammers, picks, mallets, axes, etc. Wood may have lost some of its importance for archers and hunters but in sporting goods, such as baseball, hockey, bowling, and tennis, the bat, stick, pins (alley, too), and racquets, wood is the foundation of the game. In developed countries the use of wood for fuel has assumed a greater role as a luxury item in fireplaces, charcoal cookery, and barbecue pits.

When the timber necessary for shelter and fuel has satisfied man's immediate needs, then new products, novelties, and decorative items become a challenging aspect of wood industries. We may call the effort research and development or R and D now, but to the wood industry only 60 years ago it was essential innovations. For example, following the saw mills in the New England states were the wood-turning industries utilizing the small timber left in the woodlands. The turning industry manufactured items needed for toys, household equipment, and textile parts like spools, bobbins, and shuttles. They made containers for food, and literally thousands of other items used in other industries or sold direct to consumers. The talents, skills, inventiveness, and craftsmanship all became an important part of the wood-turning and shaping industry. The manufacture of such specialty wood products dispersed west and south down the Appalachian Mountains, but the ingenious people did not move. An indication of product diversification may be illustrated by one company which lists 1,785 different items that they manufacture and sell direct to the consumer or other gift shops, sporting goods, toy, novelty, and household appliance stores. Items that were necessary utilities such as wooden pails, kegs, buckets, are in some instances novelties, decorative in nature and appealing to the public.

To manufacture a tremendous variety of items the wood turners and shapers have, of necessity, developed new machinery and new methods which exemplifies the creative, ingenious, inventive nature of people. Many of the new machines are now being copied, manufactured, and improved by the woodworking machinery manufacturers.

INNOVATIONS ON THE HORIZON

Residential structures, which require the greatest volume of a timber cut in the United States, are being developed in an attempt to meet competition with innovations and mass production principles. A change in building concepts was perhaps initiated with the pre-cut homes of 40 years

ago and the pre-fab homes of World War II. Twenty-five years ago laminated beam construction received a boost when framing members up to 400 feet long were made for blimp hangars. The industry has matured and has continued to make laminations for all types of structures, as structural and decorative members in cathedral-like buildings. The laminators have learned how to bend, shape, process, and design. The influx of mobile homes, representing approximately one-seventh of the residential structures built in the United States, has been the result of new developments in core materials, face products, and light-weight items with the required rigidity in attractive mobile units.

The National Forest Products Association is currently exploring the concepts used in construction of mobile homes and are attempting to adapt them to pre-built residential units. Some mobile units are considered the forerunner for multi-unit systematized building possibilities. Complete coordination of all the features required in a house or apartments points toward a further change in the industry. To be successful large industrial concerns will be required with regional and national distribution of complete unitized, systematized buildings containing all the conveniences and facilities that people like. Companies now manufacturing lumber, particle board, hardboard or plywood representing thousands of individual concerns must think of assembling all materials in one location and using the best of each manufacturer in the structures.

An example of rapid growth, mechanization, and more complete utilization of the wood resource is the particle board industry. Its growth during the past 20 years has been almost fantastic, and new applications are rapidly developing. More consideration is being given to flat and molded products that may be extruded, pressed, and formed with special surfaces, colors, and grain characteristics to fill the desires of users.

The hardboard industry, which has grown from the well-known Masonite Company to around 40 other plants, is another example of rapid growth and mechanization. They have learned how to make special surface effects to improve bonds and strength properties, and to increase the many applications for wood fiber products.

Overlays of film, paper, and plastic are applied to wood surfaces to improve the serviceability and utility of lumber, plywood, hardboard and particle board. Perhaps more significant has been the use of overlays in developing new products and new outlets for basically wood items. Paper-resin films and vinyl films like Tedlar, with a 20-year and longer life guarantee, indicate potentialities that are emerging into new industry.

World War II focused attention on the manufacture of alcohol from wood waste, not methanol or wood alcohol but the drinking kind, ethyl alcohol. The developmental processes clearly show that wood can be converted by chemical and biological action to form food products. Dietary foods may be possible. Other conversion products may be very useful as animal feeds and eventually may be highly significant in meeting food requirements of the rapidly expanding world population. Under present economic conditions the manufacture of food for human consumption is less promising than facilities for animal feeds and mixtures of materials for industrial food preparation.

Necessity often concentrates maximum effort on the solution of a problem; hence, the expression "necessity is the mother of invention." Due to

restrictions on the use of wood which have been inserted in building codes the fire resistant treatment of wood has rapidly improved. Wood is no longer flammable after fire resistant treatment—the treatment prevents flame spread. Efficient flame spread and fire resistant ratings should improve the status of the use of wood in metropolitan centers.

The wood industry has made great progress and many changes through the talents, the skills, the ingenuity of many people. In addition, it needs many more people trained in the sciences, bio-econometrics, bio-mathematics, engineering—all facets of engineering—and systems evaluation techniques. The current rate of industrial growth among the wood industries is a signal for creative, inventive, adaptive talent and skills plus the combinations of business, engineering and craftsmanship. Wood industries can make progress when all of these abilities are merged to utilize to the highest potential the knowledge that is available to the industry.

The industry is currently looking for more scientifically trained people than they have ever sought in the past in order to take advantage of new innovations, new methods of conversion, and new business principles. Many young people are not fully aware of the opportunities available. There is an ample supply of wood materials; there is a need for more innovations; and there is a potential for much greater industrial developments.



Get off your lazy—.



It must be contagious!



Dr. Verne Lester Harper

HONORIS CAUSA

Over the years North Carolina State University has followed the practice, traditional in many universities at annual commencement exercises, of awarding honorary degrees to leaders in education, industry, government or private endeavor in recognition of outstanding service to their respective professions and the State of North Carolina. The School of Forest Resources has been privileged and fortunate in seeing several forestry leaders so recognized.

After this year the policy of *annual* awarding of honorary degrees may no longer be followed. It seems appropriate at this stage of history to accord recognition again to the several men who have served forestry here and elsewhere in such a significant way.

The latest forester to receive an Honorary Degree is Dr. V. L. Harper, retired Deputy Chief for Research of the U. S. Forest Service. In awarding the degree at the May 1967 Commencement Exercises, Chancellor Caldwell said in part:

"Verne Lester Harper, your career as a professional civil servant serves once again to teach us of the positive benefits of mankind that can flow from enlightened and vigorous governmental leadership. For more than thirty-nine years you brought encouragement and support to research into the basic problems of managing our forests and their many uses. . . . Throughout your career as a productive researcher, you have educated the profession by your scientific reports. As an administrator, your firm grasp of the importance of fundamental research has resulted in reemphasizing the basically scientific aspects of the study and practice of forestry. . . .

The forests of North Carolina are one of her basic resources as well as one of her most attractive adornments. Although your tenure in our state was but brief, your work has affected directly our prosperity and the quality of our community life. To us comes much of the honor in conferring upon you the degree of Doctor of Science *honoris causa*."

Other leaders in forestry who have received honorary degrees at North Carolina State, in the order of recency, are:

<i>Name</i>	<i>Date</i>	<i>Degree</i>
Irvine T. Haig	May 27, 1961	Doctor of Science
*Francis Xavier Schumacher	May 24, 1959	Doctor of Science
Elwood Leonard Demmon	May 29, 1955	Doctor of Science
Walter Julius Damtoft	June 6, 1954	Doctor of Forest Science
*Inman Fowler Eldredge	June 7, 1953	Doctor of Forest Science
*Carl Alwin Schenck	June 8, 1952	Doctor of Forest Science
*Colin George Spencer	June 10, 1951	Doctor of Forest Science
Reuben Beal Robertson	June 7, 1932	Doctor of Science

* Deceased



Are Forestry jobs this tight for everyone?



James S. Stevens, Jr.

RECREATION AND FORESTS COMPATIBLE

By

JAMES S. STEVENS, JR.

Associate Director, NCRC

Adjunct Associate Professor, NCSU

The evolution of recreation and parks as related to the field of forestry had its beginning a long time ago. There is evidence of recreation and park activity appearing early in the history of man.

Marie Louise Gothein, Heidelberg, Germany, "A History of Garden Art", 1913, credits the Asiatics with being the real inventor of the park. In citing the Epic of Gilgamesh, a story that antedates the writing of Genesis of the Bible, she refers to a story pieced together from inscribed tablets excavated in Mesopotamia—"All the same, this cedar wood of Humbaba's, so realistically described, with its straight, cared-for paths (the keeper of the wood is mentioned), and its bushy undergrowths and sweet-smelling plants, is a forerunner, the kind of starting point for the park of history."

Western Asiatic parks, of the Sumarian King of Gudea, about 2340 B.C., continued to remain prominent down through the Hanging Gardens of Babylonia about the ninth or tenth century B.C. Plutarch and other Greeks tell of the parks and gardens of Persia.

During the Roman Empire, the great hunting parks were part of large villas of country holdings of provincial rulers. With the Italian Renaissance and the period that followed, 1500 A.D. through the eighteenth century, in Europe, England, Scandinavian countries and to some extent Russia we find elaborate park developments. Topiary work (the art of keeping trees and shrubbery clipped in fantastic shapes) appearing during the fifteenth century. By the last of the eighteenth century, English estates developed a character of their own which were carried to Europe. The major emphasis was on natural landscape, native shrubs and trees.

Open spaces in the American colonies appeared in different forms. In New England we found traditional public grounds such as the Boston Commons as early as 1634. General James Oglethorpe went much further when

planning Savannah, Georgia, 1733. Mr. Robert Wright wrote that Oglethorpe "... laid out a public garden which he designed as a nursery to supply colonists with white mulberry trees, vines, oranges, olives and other fruits." "He also had many of the fine forest trees spared when the site for the town was cleared."

One of President Teddy Roosevelt's crusades involved conservation of natural resources. To discourage waste of natural resources, he set aside 150,000,000 acres of government timberland as national forest reserve and transferred control of this land to the U. S. Department of Agriculture. An Act of Congress, 1905, created the Bureau of Forestry, known today as the Forest Service, U. S. Department of Agriculture. President Roosevelt called the first national conservation conference in 1908 to bring public attention to conservation.

Former Governor Terry Sanford in his book "Storm Over the States" stated, "When some naturalists wanted forestry practices controlled but some insisted that control would destroy nature's balance in the wilderness, our untidy response was to have both. The U. S. Forest Service follows the first alternative and the U. S. Park Service the other, and the future has been better served."

Although the Yellowstone Act of 1872 established the first national park, the National Park Service, U. S. Department of Interior was not created by Congress until 1916.

The next half century saw the conservation and people-activity oriented recreators pursuing their own avenues of progress and development. During the 1950s we had observed recreation, park, zoo, botanical garden and local government foresters (city and county) merging into one administrative department operation. The National Recreation and Park Association was created in 1965 by merging six national bodies.

During the 1960s we are seeing developments laying the groundwork for major breakthroughs which bring the fields of forestry and recreation closer together than ever before. In the course of evolution the terms multi-purpose and multi-use have become the order of the day for recreation and parks as related to the field of forestry. It is natural to turn to the area of forestry since so much land is under public and private forestry management and production. Secretary of Agriculture, Orville Freeman, reports in "Outdoors, USA", The Yearbook of Agriculture, 1967, "Our conservation responsibilities require us to operate the world's largest outdoor playground—the 186 million acres of the national forests and national grasslands." During the same year it is reported 153 million visitor days of use for recreation purposes.

Kenneth Pomeroy, Chief Forester, The American Forestry Association, 1961, made a speech "Impact of Future Forest Recreation" and his opening remark was "The upward surge of recreation continues unabated in North Carolina." "Recreationists pose problems for private landowners." The North Carolina Recreation Commission and the American Forest Products Industries, Inc. cooperated in securing information, having legislation drafted, introduced, and passed by the 1963 General Assembly of North Carolina. It was known as the Land Owners Liability Act. Basically it places a private landowner in the same category as a governmental agency with respect to liability when permitting the public to use their land for public recreation uses.

The American Forest Products Industries', Wildlife and Recreation Committee conducted a survey of the nation's forest products companies to see what they were doing to permit recreation use of their lands. This survey, conducted in 1960, was rechecked in 1962.

George Kelly, Public Information Director, AFPI, in a speech, "The Forest Industry's Contribution to Public Recreation Needs", 1965, said in his opening remark, "The use of forest lands as a place to play—or simply as a refuge from the noise of urban living—has been recognized for a long time by foresters as a phase of land management." He closed his talk with the following statement, "I am confident that with the leadership of competent organizations, such as the North Carolina Recreation Society, the forest industries, along with small forest landowners and other private property owners, and state, federal, county and municipal governments, can join together in devising an orderly plan of recreation whereby all groups involved will make their particular contribution to the public's need for leisure and relaxation."

These two leaders representing national forestry organizations indicate that the order of the day, not only requires multiple use of our natural resources but cooperative planning between public, private and commercial agencies, organizations, corporations and individuals. Only by combining our total assets can we hope to meet the needs and serve the outdoor recreation interests of our ever growing population. To the increase in population we must be aware that people will have more leisure time, be more mobile, have increased income with a larger portion of their money that can be used to pursue a better life, and less per capita land and water acreage set aside for their recreation needs.

WHAT DOES THE FUTURE HOLD IN STORE?

The tempo of evolution, concerning recreation and parks and its relationship to forest holdings, is quickening. Those in a leadership capacity and those determining policy and creating action programs know that time is of essence if we are to acquire, preserve and reserve resources for recreation usage.

The American Forest Products Industries, a non-profit organization representing private timber and power companies, released information, in 1962, stating that approximately 2 million acres of land, in private ownership, in North Carolina, or 11% of all North Carolina land, could be made available for public recreation purposes. Of course, this land cannot be opened to the public without establishing proper rules, regulations and having planned administration and management of these areas.

These private companies have a primary responsibility to their stock holders and they should be permitted to operate with a profit through the purpose for which the company was created. In addition to producing pulp wood, timber production and the many other forest producing products and production and sale of electrical power, these companies recognize that secondary values can be by-products of their land and water holdings. Good forest management practices increase production and improve conservation conditions result. Their public relations program includes the potential use of these same properties for all forms of public recreation use. State legislatures and Congress may pass tax relief measures thereby encouraging the use of these lands and waters for public recreation purposes.

We know that gouges in the earth's surface, resulting from strip mining, are being returned to productive use by filling the man-made holes with water creating lakes and planting trees around these bodies of water. In North Carolina, brick companies are filling their excavation areas with water covering clay deposits which they may wish to reactivate at a later date. Reforestation could be encouraged around these bodies of water.

North Carolina was noted for developing a great number of farm ponds. Recent USDA publications show the planting of trees around these ponds assist with erosion and add to the beauty of the site. The USDA, Soil Conservation Service has initiated a more aggressive small watershed control program. In the past three years there has been more watershed planning and the public is beginning to respond with tax supported programs to improve the small watershed areas. In addition to flood control, recreation is being incorporated in these plans. Areas subject to frequent flooding are being zoned as flood plain areas and the type of use is being restricted.

The U. S. Corps of Army Engineers have recognized the great recreation economic value of water impoundments and increase in property values to adjoining properties. These areas will not be cleared in a manner similar to the planning and development of high density (urban) recreation and park areas.

Multi-purpose and multi-use of USDA, Forest Service holdings is increasing during this period of change. There are many forms which recreation activity takes from the wilderness type area to the high density type area. All areas, regardless of size, do not have to be so designed that they serve or provide all forms and types of recreation activity. A golf course is designed and used by golfers while the tennis court is constructed for the tennis player. Bodies of water will be planned and restricted through rules and regulations to make them safe for the swimmer, water skier, scuba diver, boater, or the fisherman. Within recreation activity itself there can be major conflict of interest.

The U. S. Forest Service holdings, along with private company property, can be planned, designed and used without creating any conflict with the primary purpose of the forest management and production.

NEED FOR THE PROFESSIONAL

It becomes very obvious that there will be need for professionally trained personnel who are educated and trained to plan, design, administer, manage and supervise these forest holdings. Public recreation and park recreators at the city and county level will manager smaller forest holdings than at the state and federal levels. At present there are only a handful who are even aware of this great potential need. There are fewer professionals who are employed in the land and water management field. Very few tools have been developed for them with which they can carry out their responsibility. (See Mr. Thomas I. Hines' reference to "tools", page 22, *Pinetum*, 1967).

Those with a background in Forestry and those with a background in Recreation and Park Administration will have to become more aware of the administrative, management or operational problems so that natural resources and people resources can be totally utilized for maximum benefit. Forest resources and recreation must be made compatible.



DR. ÅKE GUSTAFSSON

Under the sponsorship of the School of Forest Resources and the School of Agriculture and Life Sciences, Dr. Åke Gustafsson served North Carolina State University in 1968 from January to June as a National Science Foundation Senior Foreign Scientist. For the past 20 years, Dr. Gustafsson has been Head of the Department of Forest Genetics at the Royal College of Stockholm in Sweden. During this time, he has been an active leader throughout the world in promoting the use of genetics in forestry. His influence was largely responsible for starting the first forest tree improvement program in the southern United States in the early 1950's.

Dr. Gustafsson is also a leader in radiation and mutation breeding. In this capacity he serves as a director of research for the Swedish Seed Association at Svalöf and as Professor of botanical genetics at the University of Stockholm. Recently he served for six months as a member of the International Atomic Energy Agency of the United Nations in Vienna.

While at N.C.S.U., Dr. Gustafsson directed a colloquium series for students and faculty on various aspects of forest genetics and mutation breeding. He presented several seminars, including the spring lecture for the North Carolina State University Chapter of the Society of the Sigma Xi. Dr. Gustafsson made several trips throughout the southeastern region of the United States where he provided advice and counsel to various organizations on forestry and genetic matters.

EDUCATIONAL CHANGES IN FOREST RESOURCES IN THE YEARS AHEAD

By

R. J. PRESTON

Living, as we do, in one of the most revolutionary periods in the history of mankind, long range planning has become essential in order to provide some measure of order and reason for decisions that must be made today. The knowledge explosion, especially in the fields of science, may require almost annual changes in technology and tools that only a few decades ago we might have thought would remain constant for a generation or a life time. A simple example of this rapid change can be seen in logging where the axe of our forefathers gave way to the crosscut saw, which in turn, but mainly in smaller timber, was replaced by the bow saw, and this quite recently by the chain saw. Hand felling tools now have practically become museum pieces. We are told that within ten years the chain saw will be obsolete, and logging done almost entirely by hydraulic shears. To call attention to a more sophisticated area, none of us are yet fully aware of the many changes in our lives already made by the computer, nor the further changes this "Black Box" is sure to make in the immediate future.

In the last generation forestry has changed from a custodial enterprise to a scientifically based profession. Forest recreation has grown to impressive dimensions, and wood science and technology is rapidly advancing from an "art" to a "science". Today's professional graduates require a sound background especially in mathematics and science if they are to be able to adjust to the dynamic changes. Decision-making is an essential requirement in all resource management fields, and professionals with good backgrounds in economics and business administration are in greater demand than ever before. An understanding of sociology, psychology, and the other social sciences is also becoming recognized by industry and government as vital in public relations and in developing the all important "public image" necessary for acceptance of professional judgments, or even for survival.

Changes in forest resources education are both quantitative and qualitative. In the twenty years from 1948 to the present our faculty and staff have increased from 8 to 103, graduate enrollment from 3 to 85, and the annual budget from \$57,000 to \$1,360,000 while the undergraduate student body has steadily grown. There is no reason to believe these increases will not continue, and our present enrollment of 671 is expected to reach the 1,000 mark before 1978.

What qualitative additions and changes do we anticipate in our programs in the next decade? These will be many and far reaching and, I am sure will, doubtless, include even programs not yet being planned or considered by our faculty. In the coming year we anticipate a new undergraduate curriculum in natural resources recreation management. In 1968 we shall also request a new graduate program in recreation, to help meet the explosive growth in the recreation field. Also in the immediate future the School of Forest Resources and the School of Agriculture and Life Sciences will establish a new and jointly-administered curriculum in conservation, designed to educate people in the broad general field of resource management.

It is widely recognized that the future well-being of North Carolina depends in large measure on the amount and quality of available water. Development of knowledge to maximize the yield and quality of water falling on North Carolina's 20,000,000 acres of forest land is needed. Likewise, pollution control and abatement studies are important to the pulp and paper industry and to all North Carolinians. Thus, an area of expanded graduate and research programs in forest hydrology and pollution abatement is planned and funding proposals have been prepared.

A task force is now developing an educational program in harvesting systems analysis, which relates to forest crop removal from the land. Shortage and increasing costs of woods labor are resulting in rapid introduction of new systems and mechanization which will require new types of professional managers. These are probably the most critical problems now facing the wood industries and we are taking steps to strengthen our faculty and course offerings in this area.

We are hoping to initiate by next year an expanded program in forest photogrammetry, with particular emphasis on remote sensing. Aerial photography in forestry is developing rapidly and it appears likely that research can produce breakthroughs in detecting disease and insect infestations, in game census taking, in site quality evaluation, in drainage planning, and in forest inventory.

Recently the School has put together an outstanding team of wood chemists. It appears most probable that new developments in the field of wood utilization will come through better utilization of wood as a raw material for chemically derived products. In the near future we plan to establish a Ph.D. program in wood chemistry.

For several years the School has had a growing interest in tropical forestry, recognizing that a great reservoir for cellulose in the years ahead is in Latin America and Africa. In North Carolina the furniture industry, in particular, is deeply concerned with tropical woods. We are now considering a program of graduate education and research in tropical forestry and tropical woods.

The programs listed above are well beyond the thinking stage and hopefully will be established in the next two or three years. In addition, thought is being directed to additional programs in the following fields:

1. A curriculum in wood engineering and construction to be developed jointly with departments in engineering and design.
2. Strengthening the area of wood and fiber physics with emphasis upon such areas as mass transfer of fluids and chemicals through wood and structural analysis of fiber networks.
3. A new program in urban forestry to provide within cities outdoor aesthetic and recreational opportunities for city dwellers.
4. An inter-institutional program in quality of environment, which would include air pollution abatement.

The next decade will be an exciting one with many new stimulating careers opening up for graduates in all phases of forest resources. More and more employers will be looking for graduates educated and particularly fitted for specific fields of work, and the demand for men with advanced degrees will continue to grow.



G. E. Jackson, Manager
Hofman Forest

PROGRESS REPORT FOR THE HOFMANN FOREST FOR 1967

By

G. E. JACKSON, Manager

The North Carolina Forestry Foundation, Inc.

The planting program was accelerated on the forest during 1967, and a total of 2,246 acres was planted or re-planted. Chopping, burning and bedding was carried out on an additional 1,375 acres in preparation for the 1968 planting season. The Mosely dibble-type machine planter is proving satisfactory in bedded land and three of these machines have been purchased.

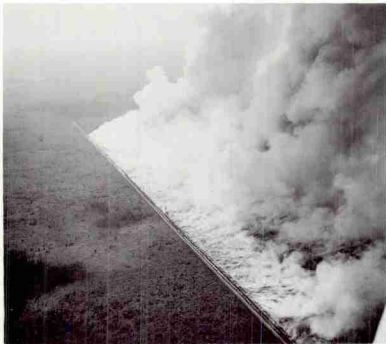
An improvement cut was made on compartment I #10, and a total of 285 MBF of timber and 1,890 cords of pulpwood was removed. 11,666 cords of pulpwood and 627 MBF of sawtimber was cut from outside block #10. The choppers were used in some areas before logging to reduce the brush.

A total of 12½ miles of additional road was constructed and 28 miles of primary and secondary ditches were dug. Onslow County ditched out the channel of North East and Little North East Creeks and Fork Branch. This gives some improved outlets for the water from the forest.

No wildfires were recorded on the forest during the year. The Deppe Airstrip was chartered by the Department of Commerce and is now shown on aeronautical charts. A 16,000 gallon fire retardant bulk slurry storage pit has been built at the airstrip, and a new fire equipment station is now in operation at the Deppe Fire Tower.

The boundary survey work is continuing as labor and surveyors are available. One large claim has been surveyed and an agreement has been reached. The soil and stand mapping work was completed on 70,000 acres in October.

The Board of Directors of the North Carolina Forestry Foundation, Inc. approved a budget for supporting funds for the School of Forest Resources at North Carolina State University in the amount of ten thousand dollars. This included a special request for one thousand dollars for moving expenses and five thousand dollars for chemistry type equipment.



Prescribed burning on Hofmann



Deppe Airstrip

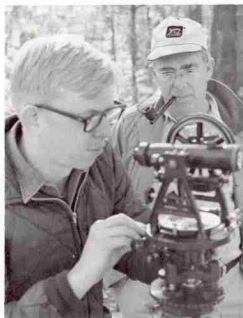
THE SCHOOL FORESTS

By DR. R. C. BRYANT

Of major importance to the School forests was the employment of Larry Jervis this year as forest manager. He has been a great help in accomplishing many of the projects sorely needed to bring our properties to a "managed" condition. The work scholarship and work study students have proved to be a most efficient crew under his supervision.

The North Carolina State University Foundation turned the management of the Goodwin Forest over to the School, and most of the effort this past winter has been focused on this property. Three bridges which had washed out on access roads in the Forest were replaced using magnesium spans we obtained from surplus property. The management job is an interesting one for any program for the forest must pay its way from proceeds from stumpage—there is no other source of funds for operations. Some 650 cords of pulpwood were sold, mostly from thinnings in plantations, and a prescribed burning program was started to remove thirty year's accumulation of rough. This spring's senior class is now in the process of surveying the tract and developing a management plan for timber and the other resources.

Salvage of timber from the ice storm of 1967 on the Hill Forest was completed during the year, and three additional areas of mature Virginia Pine were cut following outbreaks of bark beetles in the stands. The areas logged were then chopped with a heavy roller drum, burned, and are now



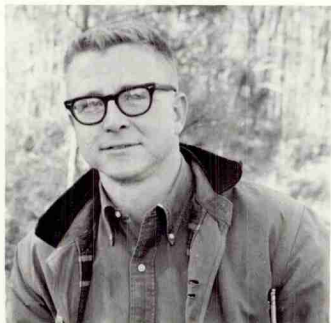
Sure, I know how it works Dr. Bryant.

in the process of being planted. In addition to several experimental plantings for the genetics program, five acres will be planted to white pine this spring. The performance of this species near camp and across the river has been so good (no bugs, no ice damage, and rapid growth) that we will continue to use it on north facing slopes.

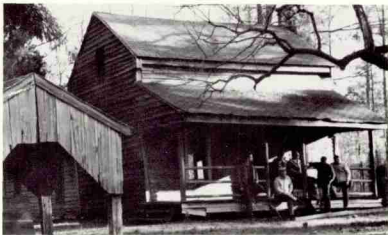
The Schenck Forest serves as an ideal laboratory for instruction in the Forestry Department and as a source of pulpwood for the Forestry Club's weekend projects.

The Prison Department should complete cutting on the Hope Valley Forest during 1968 in anticipation of flooding by the New Hope Dam. The peninsula left after the lake fills should provide a fine recreational area.

Our ultimate goal is to make these forests outstanding examples of small forest management. A good start has been made, and we hope to speed up the process in the next few years.



Larry G. Jervis
Research Associate
Department of Forestry
B.S., N. C. State University



Cabin on the Goodwin Forest



Goodwin Forest prescribed burning results.



THE FORESTRY CLUB '67-'68

By

TIM COFFIN

This year has shown a marked increase in participation and interest within the club. The membership is growing rapidly due to the zeal and drive of the older members.

Dave Noll, new manager of the pulpwood cutting, has taken steps to broaden our operations to include the cutting and selling of firewood, and this change has proved a prosperous one for the club treasury.

For the second year the Forestry Club has entered a float in the Homecoming parade, and through the efforts of chairman, Tim Coffin, and his capable committee, this year's efforts proved to be more fruitful. The Club won the first prize organization trophy with a float entitled "Stomp Out Dook's Fire."

Unlike last year, the weatherman was on our side for the annual Rolleo. Warm temperatures and sunny skies prevailed for the entire afternoon. All four classes were enthusiastic about the Rolleo this year, and the strong competition and high spirits never died. At the close of the afternoon the Juniors were once again the victors with the Seniors, Sophomores, and Freshmen finishing not far behind them. Under the guidance of Bill Rodgers, and due to the hard work of his committee members, this year's Rolleo was a memorable one.

The 1967 Georgia Conclave was a sad one for our boys, who finished low in the standings due to a run of bad luck, but since then we have added some new and strong competitors to the team. With these new boys and the older members we should do well in the upcoming Conclave at Clemson. Following the Conclave at Georgia came the Loggers' Brawl with its traditional square dance music and the ugliest girl contest. Marc Staff did a splendid job in organizing the dance, which drew in a large crowd, and a wild time was had by all as The Maple Acre Boys supplied the music. Of course the ugliest girl was never chosen! If there had been an ugliest girl, no one would have been brave enough to crown her.

An important part of our club meetings is the program that follows the regular business. This year's selection of guest speakers, films and slides was coordinated by Dave Noll and Gary Conover, and they deserve a hand for their efforts. The Forestry Club extends an invitation to anyone who would care to attend any of our meetings and enjoy our programs.



A winner!



Modern skidding methods



Salty Dog Blues



Money in the bank



FOREST PRODUCTS RESEARCH SOCIETY

By ARTHUR S. AIKIN

President—Arthur S. Aikin
Vice-President—Bill Simmons

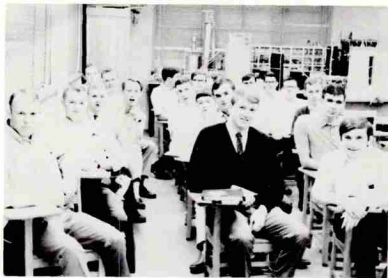
Secretary—Dennis A. Ammons
Treasurer—Randall Davis

The Forest Products Research Society Student Chapter is an organization made up of students in the Wood Technology and Furniture Manufacturing curriculums. The purpose of the organization is to correlate classroom technology with new developments and research in the wood industry.

FPRS invites speakers from different fields in the wood industry as well as faculty members to present programs. Speakers this year have included Mr. Howard Malpass of Reliance Chemical Corp. who spoke on wood finishing, Mr. John Von Canon from Sanford Furniture, who presented a program on the role of a superintendent in the wood industry, and Mr. Robert Gilmore who discussed his experiment with plastic impregnated woods.

The office of president in the organization is alternated each year between the Wood Tech. and Furniture students. The faculty advisor for FPRS is Professor R. M. Carter.

The membership of the organization has expanded this year, but we are still interested in taking in new members. Visitors and prospective members should contact Professor Carter as to time and place of the meetings.



FOURDRINIER SOCIETY

By

J. RICHARD SMALL

President—Charles McLemore
Vice-President—Charles Gardner
Program Chairman—Ronnie Brown

Secretary—Richard Small
Treasurer—Shannon Nichols
Coordinator—Bill Wade

The *Fourdrinier Society* is the official club of the pulp and paper curriculum. The Society was founded in 1957 to promote interest in the paper industry and to broaden the general knowledge of the students about this field.

The *Fourdrinier Society* is the official club of the pulp and paper curriculum, the *Fourdrinier*, which revolutionized the paper-making industry. This machine is actually used to form the paper sheet. Previously all paper was produced on hand molds.

The Society also promotes education and social activity within the curriculum, and works toward improving and helping North Carolina State University. Many of the faculty members work with the Society, thereby allowing the students to become better acquainted with their future instructors.

Interesting and educational programs are planned each year by inviting specialists from pulp and paper and related fields, such as chemical and machinery suppliers, to speak to the Society. These programs introduce the students to the professional community they are preparing to enter.

As in all clubs, the *Fourdrinier Society* has its annual spring picnic, complete with hamburgers, "drinks", and "unusual" entertainment.



XI SIGMA PI, MU CHAPTER

By
GEORGE G. GLASS

Forester: Mack Bailey
Associate Forester: Joe Boggs

Secretary-Fiscal Agent: George Glass
Ranger: Andy Nuchols

Mu Chapter of Xi Sigma Pi, National Forestry Honor Fraternity, has been a part of the School of Forest Resources since April of 1940. From its very beginning, our organization has been concerned with the promotion of scholarship and fraternal relations among those involved in the profession of forestry in its broadest sense. The fraternity brings together students and faculty members from the Departments of Wood Science and Technology, Forest Management, and Recreation Resources Administration.

This fall, fifteen undergraduates, one graduate student, and two faculty members were added to our membership. Their induction was highlighted by a banquet at the Faculty Club followed by the formal initiation ceremonies. Similar events are also planned for the spring semester.

Clarence Dykes was presented the Freshman Ax Award at the annual Rolleo for having attained the highest scholastic average in the school during his freshman year. James Cunningham, the senior with the highest GPA, was also recognized. His name will be added to the Xi Sigma Pi Ax in the chapter meeting room.

Several members of the fraternity were quite active in the Open House Program for high school students which was held on October 21 in cooperation with the School of Agriculture and Life Sciences. Brothers helped with registration and also served as guides and speakers.

Dr. J. O. Lammi again represented us at the national meeting which was held in conjunction with the SAF National Convention in Ottawa. His report was quite encouraging as to the financial status and progress being made on the national level.

The final activity of the academic year will be the traditional Senior Picnic. The fraternity plans to invite all seniors, brothers, their dates, and faculty and their families for a farewell gathering of fun, food, and games to honor the graduating seniors, and more especially to honor the Outstanding Senior of the Class of '68.



RHO PHI ALPHA

By

BARRY C. LOCK

President: Robert S. Stokes

Vice Pres.: Betty Garriss

Secretary: Marcia Separk

Treasurer: Joseph Tanner

Historian: Barry C. Lock

Sergeant-At-Arms: Phil Kanoy

Publicity: Edward Rollins

Faculty Advisors:

Dr. Robert E. Sternloff

Mr. Roger Warren

In the fall of the 1958-59 school year, Professor Thomas I. Hines, Head of the Department of Recreation and Park Administration, of the School of Education, N. C. State College, Raleigh, N. C., selected the eleven seniors in the curriculum of Recreation and Park Administration with the highest scholastic standing to serve as a committee to formulate and design a professional, honorary fraternity for outstanding students in the curriculum, and to become the charter members of the fraternity.

Keeping in mind the goal of high standards for the fraternity and its members, and holding the aspiration of having this chapter become the nucleus for a national fraternity, the committee formulated and designed Alpha Chapter of Rho Phi Alpha, honorary professional recreation and parks fraternity.

The primary objective of Rho Phi Alpha is to recognize, promote and encourage students of high moral character and unselfish devotion to the study, research and application of knowledge for the betterment of recreation and parks for all peoples, and to recognize those persons who have made outstanding contributions to the field of recreation and parks.

The fraternity believes that the interests of all recreation and park students should be considered. Presently, Rho Phi Alpha is considering various ideas which would entice recreation and park majors into involvement and an active participation in such activities as a Major's Club or mass recreation activities.

All students with a grade point average of 2.5 and a 3.0 in R.P.A. curriculum are considered by the fraternity for membership (provided they have completed 45 semester hours or are of sophomore status and have completed four R.R.A. courses). One pledge class is initiated each semester.

In addition to active membership, the fraternity has the following types of membership:

Inactive—persons formerly holding active membership

Associate—persons selected on an outstanding professional basis in the field of Recreation and/or Parks

Honorary—persons who have made outstanding contributions to the field of Recreation and/or Parks and are not eligible for membership under any other section of the constitution

Charter—initial members who drew up the original non-incorporated constitution and the first incorporated constitution

In addition to regularly scheduled business meetings, the fraternity sponsors a series of audio-visual programs which are open to the public. These programs deal with various aspects of the recreation and parks field and while they may provide the recreation and parks major with an expanded viewpoint of his field, they also serve as an enlightening and enjoyable experience for non-recreation and park majors who attend.

Rho Phi Alpha is also developing a recreation and parks resource file which will be composed of informative and up-to-date literature dealing with the many aspects of the recreation and parks field. The information for this file is still in the process of being gathered; but when completed will serve as a valuable aid to the student.

At the beginning of each school year, the fraternity sponsors an "orientation open house" for incoming freshmen and transfer students.

During the course of the school year, members of Rho Phi Alpha can be found serving as ushers at University open houses and orientation programs; serving as hosts for the Southeastern Recreation and Parks Conference in Raleigh and serving the department staff in various capacities.

At the end of each Spring semester, Rho Phi Alpha selects the "Outstanding Senior" of the year. The "Outstanding Senior" is that individual who need not necessarily possess the highest academic average in his class, but is respected by the fraternity for his enthusiasm, leadership qualities and outstanding professional attitude.

This award is presented annually at the Recreation and Park Department picnic, which is sponsored by Rho Phi Alpha.

At present, Rho Phi Alpha has a membership of twenty-one active members. Dr. Robert Sternloff and Mr. Roger Warren are serving as faculty advisors for the present year.

Although N. C. State's Alpha Chapter of Rho Phi Alpha is the only chapter at present, there is much hope that in the future we will be able to expand the brotherhood of Rho Phi Alpha to other colleges and universities offering a degree in Recreation Resources Administration.

Active Membership:

Randy Bowers

Jean Cooke

William Flourney

Henry Fox

Betty Garriss

Larry Hicks

Douglas Longhini

Steve Martin

Barry Lock

James Middleton

James Pace

Mike Peterson

Edward Rollins

Frank Price

Robert Stokes

Joseph Tanner

Marcia Separk

Jack Douglass

Robert Harvin

David Hobson

Phil Kanoy

John Lawrance

Roger Lemmons



THE FORESTRY COUNCIL

By MARC STAFF

The Forestry Council of North Carolina State University was established in the fall of 1966. The initial purpose of the Council was to act as a channel of communication between the Administration and students of the School of Forest Resources.

The Council is presently made up of the presidents of the five student organizations within the School and three faculty members. In this way, all forestry curricula are represented.

The Council provides an organization for the management of affairs in which all forestry students may be interested. In the past it has dealt with organizational problems concerning the *Pinetum* and the allocation of student fees.

In the future, as the School of Forest Resources continues to grow, representatives of the Student Senate shall become members of the Council. In this manner, students who are not members of a student organization shall also have representation on the Council. The senators will provide the missing link between the Student Government, the student, and the faculty of the School of Forest Resources. With the aid of the Council, the students of the School of Forest Resources shall receive proper representation in relation to the larger schools on campus and at the same time, maintain a constant flow of communication between the students and the faculty.

SUMMER CAMP 1967

By BILL RODGERS

On that fateful morning of June 5, fifty-five apprehensive young foresters-to-be gathered at Kilgore Hall to assure Mrs. Liles their lives and limbs were insured and to learn in which cabins they would lay their weary bodies each night. We were the biggest class since WW II and we thought the best. We were the first to use the six new cabins, and we discovered the air conditioning worked quite well during the first week.

On the first morning in camp, after having put away one of John Henry's wonderous breakfasts (one wonders how he put them together), we received our crew assignments and name tags. The faculty said the name tags were to help them learn our names, but after the hectic pace of the first week, we knew the name tags were pinned to our shirts lest we forget who we were. By the end of the week, everyone was sure the pace would slow down. Well it did, eight weeks later.

No one can deny summer camp was a learning experience. John Rennie could teach how to take a dip in the pond fully clothed. We wonder if his dendro cards got wet?!? John could also teach how to lose a new watch in the same pond. Dr. Bryant could teach how to keep one's cool when acres are ablaze around you in a "controlled" burn. Bob Simons could teach how to get drafted when you graduate. Jim Wilburn could teach how to get away from the worries of school. "Greenjeans" could teach how to run a general store. The stewards could not teach how to avoid going into the pond. The volleyball team taught Clemson a few things at Kinston.

There were plenty of surprises in store for us. Like the morning we returned from fire school and Dr. Bryant announced we would have a quiz in thirty minutes. Everyone rushed out to cram from the thousands of handouts we received at fire school, and bounced back to the classroom only to find a *mensuration* quiz greeting us. Some crews were surprised not to find scores of snakes and wild beasts along the river bank when they were running their traverses with flashlights at 12:00 midnight.



But boys, I don't need a bath.



Of course there were traditions. The path to Grannie's was well worn by the end of camp. All night rush jobs on the bug collections, and final mapping and mensuration problems were enjoyed by many. Beans and franks for supper seemed a tradition with John Henry. And the ol' faithful SWAG factor helped many crews close their traverses. We also ridded Hill Forest of seven copperheads.

As class project, we drained, cleaned, sogged around in, cussed, sweated over, and generally rehabilitated the pond.

The North Carolina Forest Service put on an excellent show as usual. An old Army mess sergeant provided good food, the Wayne Tech boys provided entertainment, and the long lectures gave us callouses in the most unusual places. But the most amazing phenomenon was that small blaze that turned into a three hundred acre disaster in one hour during a near hurricane. We expected Noah to float through at any time.

The last two weeks of our summer educational process was spent at good ol' Camp Schuab in Waynesville. We toured a paper plant, the Southeastern Experiment Station at Bent Creek, a private timber management area at Wolf Mountain, one of the last virgin timber stands in the East, Joyce Kilmer Memorial Forest, the Davidson River Recreation Area, where we counted the noses of all the tourists and wrote papers on how to get more people into smaller picnic grounds, and we toured and toured and toured. . . In the peaceful surroundings of Western North Carolina evolved the "Dirty Seventeen", the most vicious, mean, courageous, fearless bunch of boys ever to ride around in the back of a truck and look at the pretty scenery.

We profited many ways from our experiences during those nine long weeks. But we cannot explain the rash of marriages after camp. It must be that good ol' Hill Forest air!!!



Gentlemen, this area needs a prescribed burning.



See?



Burn, Baby



Good start



Damned Wind!

RECREATION AND PARK INTERNSHIPS

By ROBERT S. STOKES

Internship is the name applied to a student's off-campus practice in recreation which is required during the summer between the junior and senior years. It is a supervised practice experience in an approved recreation program as a member of a professional staff. The training is done under the guidance and supervision of a professional recreation administrator and a university departmental staff member. It is a required 9 hour credit course for students in the Department of Recreation Resources Administration.

In addition to the practical experience involved, the course also provides opportunities for the student to actively observe and report on the work and working relationships of a recreation executive in his dealings with other community organizations and planning agencies.

Students participating in the internship program receive a functional background of training and experience in the skills and techniques involved on the administration of a total recreation program, including office procedure and technique, staff responsibilities and relationships, community working relationships, working relationships with authoritative bodies, policy making procedures, records, and record keeping, and activity planning and scheduling. Opportunities for practical experience in the handling of fiscal matters of a recreation department are offered to students in the program. Students receive administrative and leadership experience in organizing and supervising various activities and events, including the maintenance and operation of facilities.

During his internship, the student gains practical experience that will add to his maturity and give him a further understanding of human relations and increase his ability to get along with people. The student gains a new prospective and appreciation of his role, duties, and responsibilities as a professional recreation administrator and gives a good indication of his potential. The outstanding feature of internship is that it gives the student a chance to test and apply in a practical way recreation theories and principles learned in the classroom.

INTERNSHIP IN A MUNICIPAL RECREATION SETTING

By
THOMAS BRADFORD

During my nine-week internship I was placed in almost every conceivable situation a successful recreation administrator should be familiar with.

My internship was with the Fayetteville, N. C. Recreation and Parks Department.

My first duties were those of maintenance man with the recreation department. I was assigned general maintenance duties such as mowing grass, repairing fences, painting signs and buildings and numerous small, but important jobs. Through experience in the maintenance department, I was able to gain an understanding of the importance of this division and

the vast scope of duties this department assumes. Without maintenance the general public would not receive optimum benefits from the recreation program.

After my maintenance experience, I spent short periods in various other areas and departments. I had an opportunity to work in the offices and study operational procedures, take part management and programming on playgrounds and in recreation centers. I also gained valuable experience in swimming pool management, writing operation manuals and designing a master plan for the city's recreation and parks.

As the summer progressed, I was able to see the importance of the internship program, because I had an opportunity to relate all that I had learned in class to actual field experiences.

INTERNSHIP IN AN INSTITUTIONAL RECREATION SETTING

By
GEORGE ROLLINS

Last summer I spent nine weeks at Dorthea Dix State Hospital. No, I was not a patient, but rather a student trying to complete his intership.

The first three weeks I worked in Industrial Therapy. It is I.T.'s purpose to place patients in jobs throughout the hospital. These jobs benefit both the hospital and the patients. The patient is given responsibilities of a job which will help him to find his own way back on the road to recovery. In order to decide which job was right for each patient, their records of past work experience and types of illness were analyzed. In this manner, the patient would be placed on a job that he had knowledge of and which best suited his illness. Each patient was under close supervision to make sure that the right job was chosen and that he had a positive reaction to the situation.

My last six weeks I spent in Recreation Therapy. In this area, the patients' abilities ranged from ball-rolling to playing bridge. In the mornings we would stay in the recreation room playing table games and dancing. The afternoons were devoted to outside activities such as playing softball, volleyball or bus rides in the area around Raleigh.

Special events were also held for the patients throughout the summer. We had a large dance in the gym one night and the employees as well as the patients thoroughly enjoyed themselves. Each group of patients were also taken on a picnic to the State Lake. Here they fished, played horseshoes, and stuffed themselves with all the hot dogs they could hold.

Students have asked me how I could stand to work in a mental hospital. All one has to do is to realize that the patients are people rather than "freaks". I made many friends during the summer and I go back as often as possible to visit them. It was a very rewarding experience, both in the form of knowledge and personal satisfaction.



1967 WOOD TECHNOLOGY SUMMER PRACTICUM

By
ART RAYMOND, JR.

After going through nine months of chemistry, physics, and calculus, everyone thought summer practicum would be a chance to pick up some much-wanted QP's and to have a good time doing it. But what this year's class didn't know, didn't hurt—at least not for a couple days.

Summer practicum, to the uninitiated, is a six-week session for wood technology and furniture manufacturing students, consisting of a five-week laboratory in furniture construction and one week of job orientation. Wood Tech students also spend the last eight weeks of the summer in on-the-job training with various companies.

The first week of the program was spent in preparation for actual furniture construction. Each person had to prepare a cutting bill and make up shop drawings for the night stand he was to build. Instruction on the proper use of woodworking equipment was also given during this week. Mr. Gilmore, who everyone thought was very patient with us young neophytes, handled this initial week of supervision.

At the end of the first week, the class was split into two sections with each section divided into crews of three. With this division came a week and a half of kiln drying instruction under Mr. Carter. This course concerned determining drying schedules, taking moisture contents, studying stacking techniques, and operating the kiln. Lumber grading was also touched upon in this course.

After being exposed to kiln drying, each crew began machining the various parts for its night stands out of rough yellow poplar and mahogany veneer. Before machining was completed, however, plant trips began. After visiting Kemp Manufacturing Company at Goldsboro and Atlantic Veneer in Beaufort, the boys from "the big town" moved in on Atlantic Beach for a one-night stand, headed by Arkansas Freddie Ayers. Needless to say, the natives were greatly impressed!

Next morning we were on the road again headed for Union-Camp at Franklin, Virginia. But the famous "green bomb" Forestry bus, after

being coaxed many miles by its able pipe-in-mouth driver, finally collapsed. This tragedy led to a dramatic morning spent at the Craven County Highway Division. After going through tons of red tape, Mr. Carter rescued us from a road gang crew with a green and white school bus that had a top speed of 45 m.p.h. This "speedster" finally got us to Franklin, however, and then back to campus late that night. The next morning it was back in the saddle again—this time in P cars—to tour Barcalo Manufacturing Company in Rocky Mount and the Formica particleboard plant at Farmville. A well-deserved weekend passed before we visited United Furniture in Lexington, Sherwin-Williams Company near High Point, Commercial Carving in Thomasville, and White Lumber Company in Mebane. After looking at "grits" and getting saddle sores for a solid week, most of us were glad to get back even though it did mean writing reports.

The gluing portion of practicum was undertaken upon our return while we also continued machining parts for the cases. Through the teachings of Bill McNamara and Gordon Campbell, we were exposed to plywood and particleboard manufacturing, and to glue classification and properties. In the process we became walking FPL libraries. With this untried knowledge we proceeded to manufacture plywood and particleboard panels for use in our case construction and for testing purposes.

The final section of practicum was given to finishing and assembly under the supervision of Mr. Carter. This class emphasized the proper filling, sanding, glazing, staining, and coating techniques used to produce a first-rate furniture finish. For some of us, however, this final work meant ruining the night stands that we had strained and sweated over for four weeks in a matter of a few seconds.

With the final finishing rubs on the cases, the furniture manufacturing students completed their five-week stay at Hodges Lab. The wood technology boys, however, had one more week to go—including the Fourth of July vacation. This extra session was concerned with job orientation and was handled by the famous Shuttle Inn team from the extension service. Briefings consisted of motion and time study, economic analysis methods, and lumber yield studies with an added lecture on proper industrial relations by Mr. Carter. Everyone considered this extra time well spent but was eager to shock the industry with their newly-acquired knowledge. At noon Friday the summer practicum class of 1967 packed up their night stands and left to become "executives" in the wood products industry from Florida to Canada.





Don't cry Al!

CONCLAVE 1967

By MARC STAFF

Competition was keen and spirits were high during the Tenth Annual Conclave of the Association of Southern Forestry Clubs. Unfortunately it ended in dismay for the N. C. State team.

A relatively inexperienced team of 16 and one very experienced advisor traveled to Georgia for one of the finest conclaves ever. Registration was held on April 7 at the State of Georgia FFA-FHA Camp near Covington. The host school, the University of Georgia provided everyone with an interesting variety show the night before the competition.

The following day all was perfect and the events began at 8:00 A.M.

The technical events were held and when the points were awarded, it became evident that the luck wasn't with the N. C. State team.

After all the events were over and the points tallied, Arkansas A & M was first with 50 points, the University of Georgia second with 25, Oklahoma State University third with 23, and Clemson fourth with 22.

The State team earned only 7 points with a first in cross-cut sawing by Richard Peters and Marc Staff, a third in log chopping by John Harper, and a third in log rolling by Bill Larogue and Bill Smith.

Following the customary meeting of team captains, a banquet was held. The banquet speaker was Byron Dyer of the Agricultural Extension Service at Athens. The top three teams received McCulloch chainsaws as prizes. After the banquet, a rather disappointed State team suffered while the Arkansas, Georgia and Oklahoma teams celebrated with the aid of individual winners from the other teams.

Following an early breakfast on Sunday, all participants congratulated the host club Georgia for the fine job they had done and began their long journey home.

The ride to Raleigh was a quiet one, for morale was at an all time low. The revolving trophy was on its way to Arkansas and the State team vowed revenge in 1968. Few trophies were won; however, the experience gained may help the State team redeem themselves at Clemson at the Eleventh Annual Conclave.



Center of
attraction
for the day



Free beer?



Wish I had my key



Looks like a bunch of losers



A couple of winning Juniors!

1967 ROLLEO

By MIKE HARRIS

The 1967 Rolleo was greeted with a beautiful autumn day, and a respectful gathering in excess of 100 people. The judges were Dr. T. E. Maki and Mr. Mac McLaurin from the Wood Products Laboratory. Junior John Harper captained the Freshman team. Craton Stephens was Sophomore team captain, Bill Rodgers was Junior team captain, and Alan Plaster was the Senior team captain.

The Juniors generated a quick start by winning the DBH estimation thanks to Pete Lyles. The next event, speed chopping, was somewhat delayed while fiber length, density, and pit aperture width were determined on each cant. If the computations were time consuming, the actual chop was just rebuttal as Marc Staff, Senior, won the event in 2.32 minutes. The Freshman entry was encouraged along by Dr. Maki's words, "you are doing fine, just hold onto the axe". The next two events, axe throwing and knife throwing, had plenty of vacant end zone seats. Judges had to be careful in pronouncing these judgments but as it turned out the axe throwing went to Tim Coffin, Senior, and knife throwing went to Junior, Bill Rodgers. The fun in the surf event, log birling, was thoroughly enjoyed by all but the contestants. After many spills in the tepid water the seniors took another event thanks to Tim Coffin, polar bear enthusiast. You might say the Juniors, Sophomores, and Freshmen were frozen out.

Lunch was next and the Forestry Club served us all with barbeque and all the trimmings. Enjoyment of the break and the meal was somewhat dampened as transistor radios told of the winning Penn State touchdown scored against the Wolfpack. For dessert George Glass, Albert Coffey, Henry Smith, and Marc Staff each received the Homelite Scholarship award. Presentation was made by Homelite representatives, Jim Gatlin and Russell Shrum. All of us salute our classmates for having demonstrated creditable leadership and scholarship in forestry. The Freshman axe, an annual presentation of Xi Sigma Pi, was presented to Allan Dykes, Pulp and Paper student, for having the highest freshman average in the School of Forestry.

The events were quickly resumed but chain throwing somewhat put the brakes on; it seems that the chains were predisposed to entanglements. After an upset victory by John Harper over Senior, Dave Noll, the Juniors seemed set to dominate the afternoon. The bow sawing event was handily won by Junior, Terry Laubisch. The pulpwood toss saw several good efforts but none to equal Junior Mike Johnson. Pole climbing, a good trick for all foresters lost in the big woods, was taken by Sophomore Creighton Stevens. Log rolling, an event with many sideline quarterbacks, was taken by Juniors, Ralph Malany and Davis Gerwig. Contestants seemed to have trouble with those little picket fences on the sideline. Fire suppression, an artful event, was done within the confines of a small circle, although a few spectators with wet clothes might beg to differ that point. The first in question is a lighted cigar which each contestant attempts to keep dry while all four men, with the aid of an Indian pump, attempt to put the fire out. The best firefighter proved to be Jim George.

Chug-a-lug, an event to see who has the largest esophagus, was quite a sight. Even the grads and faculty tried this bit of fun but to no avail. Robbie Ball won decisively. What a way to drink soda pop! They would all be a mash (or smashed) at a cocktail party.

The last event of the day, Tug-O-War, proved that brain does not always win out against brawn. The Juniors, human skidders, outpulled everyone. Everything was in unison, we "ho'd" and they (Juniors) "heaved".

The day ended with the Juniors led by Team captain Bill Rodgers being quite victorious, and we all extend to them our congratulations. We would be quite remiss if we didn't thank the many members of the Forestry Club who so adeptly sponsored and arranged our annual rolleo. So in reply, all of we State foresters doff our hats to you. See you next year.



Birling, in November?!!



Ballet de La Forestrie



Why, you dirty little ?#*!!



Rebel without a cause

SUMMER EMPLOYMENT IN IDAHO—1967

By CHARLES FOSTER

In Idaho, everything is bigger—the land, the mountains, the people, even the girls take big steps. "You can always tell an Idaho girl. . .", I was informed.

There were four of us working in a timber crew doing reconnaissance, marking cutting-unit boundaries, and cruising. We were housed at a guard station 12 miles from New Meadows, and six miles off the paved highway in a cowpasture (about 25 miles from the nearest laundromat). There were always cattle all over our "driveway" and they took their jolly time getting out of our way, that is, unless we were driving a Forest Service truck. Those animals knew about green trucks.

The northern part of Idaho was declared a disaster area in 1967 due to wildfires, and things weren't so rosy south of the Salmon River either. It rained almost every day to the end of June, but in July, the water was turned off like a faucet. We would work 40 hours during the week, and on weekends we would get lots of overtime fighting fires started by storm-clouds—"money-bubbles" we called them.

It was uncanny. The rain often evaporated before it reached the ground, but the lightening had no trouble reaching down and blasting fire anywhere. I don't remember the weary hours spent behind a pulaski or a shovel as well as I remember the action and the color. The awe of a 150 foot spruce crowning-out at 2 a.m., or the flash of a bright yellow TBM torpedo-bomber swooping up against the green-grey background of a burning hillside from its red-pink drop of fire retardant, is something to see. Toward the end of August, the whole northern horizon was covered by a sick-white cloud that just didn't belong in the bright blue that is the Idaho sky.

It's good land, good people—I hope to get back someday.

WOOD TECHNOLOGY

By TOBY NYE

During the past summer I worked at Kopper's Company, Inc. in Morrisville, North Carolina. This plant is one of the three Kopper's Unit Structures plants. The main function of this plant is that of laminating southern yellow pine into arches, beams, columns, purlins, and light risers.

While employed at Kopper's, I was a Quality Control Technician. My work in this position consisted of testing and inspecting. Three types of tests were performed in making sure that the materials used and the gluing process met the standards set forth by the AITC, and the Commercial Standard for Structural Glued Laminated Timber.

The three types of tests that I performed were: (1) static bending, (2) block shear, and (3) cyclic delamination for wet-use adhesives. At the end of each week, I averaged the results for each of the three types of tests performed during the week.

All inspection consisted of visual inspection of all products. The products were inspected for dimensions, shape, joints and their fastenings, lumber species and grades, type of glue used, and moisture content when questioned.

As a whole I feel that I learned a great deal about laminating and the types of laminated products made.

SUMMER WORK WITH WEST VIRGINIA PULP AND PAPER CO.

By MIKE WEATHERFORD

I arrived at the main office of the Westvaco research center in Summerville, S. C., at 8:00 Monday morning, June 5. I really had no idea about the kind of work I would be doing. The word "research" instantly brought white aprons and microscopes to mind, and I had even gone to the point of boning up on my calculus. But as it turned out, coveralls and grease guns would have been more appropriate, for this was applied research—aimed basically at developing management systems and silvicultural methods for the purpose of growing more wood and growing it at a lower cost. My job was to aid the research foresters in their work on the 30 different studies being conducted at the center.

Most of my time was spent on a hardwood weight study. The purpose of this study was to gain information about the weights of the various hardwood species for the development of an accurate weight table, whereby cruising could be done directly by weight rather than by board feet or cubic volume. To do this we had to cut trees down, measure them and weigh them. Simple? Not actually. First there was the mud—it occurred in all places and in an impressive variety of depths and densities. And it had an unlimited capacity for absorbing tools, tractor wheels, legs and arms, and even some of the trees we cut (the tree would hit the ground—"SLOOSH"—we would never see it again). The snakes—numerous. One of our men was bitten by a rattlesnake his first day on the job. I'll never forget the expression on his face when he looked up and saw me standing there over him, poised, razor blade in hand, ready to start carving away on that snake bite. It's disgusting to hear a 6'4", 250 pound man screaming "If you cut me I'll faint! If you cut me I'll faint!" Well, I didn't cut him and he didn't faint. In fact, the snake bite didn't hurt him at all. But the antivenom given to him at the hospital almost killed him ("Nurse, you didn't inject that *whole* needleful into him, did you?"). In spite of our many problems we did manage to accomplish something, and I learned a lot of things about forestry that the textbooks wouldn't dare mention.

Looking back, I consider my summer job with West Virginia Pulp and Paper Company a most rewarding experience. I got a good look at industrial forestry, and I must say that I was favorably impressed.

SUMMER WORK WITH UNION CAMP

By DAVID ASHCRAFT

Did you know:

- that the entertainment capital of the South is Franklin, Virginia?
- that Charlie means it when he says he is a good cook?
- that a silver trailer becomes a good roaster during the summer?
- that Virginia Beach is terrible without a date?

These facts, among others, were learned the hard way this past summer. Last summer I worked for Union Camp Corporation in their Franklin,

Virginia mill. The Union Camp complex in Franklin includes a saw mill, integrated pulp and paper mill containing five machines, a bleach plant, and a sheet finishing plant. Paper produced in Franklin ranges from semi-bleached envelope paper to high quality bond. I was one of four college juniors employed in the Process Engineering department, and each of us was given a special project to complete by our own experimental procedure. Of course the hints from the process engineers were always welcome.

My project was a study of the natural opacity of various hardwoods as it affected the specific scattering coefficient. The feasibility of using the more opaque hardwoods to reduce the cost of opacifier was also studied. The project was extremely interesting and educational since it involved cooking, bleaching, and beating operations, and it was great preparation for the senior labs. However, I did wish at the beginning of the project that I had payed more attention during "Hitch's course".

The summer's work allowed me to get a good picture of work in the paper industry from the sidelines, and at the same time, I was able to feel some of the pressures of success and failure. This work convinced me to stay in the paper industry.

A SUMMER WITH WEYERHAEUSER

By ALLEN L. PLASTER

Weyerhaeuser Company, North Carolina Operations, instituted a Student Training Program in the Wood and Lands Department for the first time last summer. Basically patterned after their West Coast program, the objectives are to permit the student to gain the experience so essential to an education, to acquaint the student with Weyerhaeuser, and, from the company's side, to get a closer look at prospective foresters. Efforts are made to discuss with the student his suggestions, gripes, and problems. In addition, work assignments are made on the basis of the student's main interests and study option.

During my summer with Weyerhaeuser, I was assigned to three different jobs. Since I am studying under a logging option, only one of my work assignments did not pertain directly to logging. The job in question was my first, a reproduction cruise.

Bob Schowalter (another State student) and I were to determine the seedlings per acre, seedling height, and vigor on somewhere around 1700 acres of pocosin. One of the reasons for determining seedling height was to test the theory that height growth increases as the distance from drainage ditches decreases. Whoever thought up that theory ought to add that the density of the brush increases, too! Getting out of the brush and sun and into an air-conditioned office to figure our results certainly felt good. But I was soon booted back into the heat to do a time study with contract loggers in the area.

My assignment was to obtain comparative cost per unit of production for as many loggers as possible. After finally getting the hang of reading a stop watch on the fly while counting the number of logs brought in by each skidder, and watching the deck hands at the same time, I obtained some data for the contractors. Then the project received the death blow: I found that none of the loggers could provide accurate cost data for their equipment. I began to wonder when I would receive my separation pay.

Instead, I was assigned to work on the logging crew as a deck hand.

Undoubtedly, this assignment was the most strenuous work I encountered. In fact, the first day was a little too strenuous. By about mid-afternoon I was sitting in the shade with a cup of water and two salt tablets while the boss did my work. I spent the remaining weeks of the summer with the logging crew learning how to work hard while cramming in as much practical logging knowledge as I could.

The summer was both enjoyable and rewarding. The people at Weyerhaeuser were friendly and helpful in every way possible. The work was designed to give the trainee the opportunity to confront practical problems in forestry.

SUMMER WORK AT THOMASVILLE FURNITURE INDUSTRIES

By ANDY NUCKOLS

During the summer of 1968 I was employed by the Quality Control Department of Thomasville Furniture Industries. I was told that my chief duty would be to develop a statistical sampling plan for incoming supply room stock. The salary was to be low, but I figured with the overtime I was told I could make that I could make it through the summer.

About a week after my exams were over, I was ready to tackle that sampling problem. Then the summer really started downhill. There were no Military Standard Tables available to use in developing the plan, so for the first two and a half weeks I spent my time doing odd jobs in the lab. Pretty soon the Quality Control Manager figured I knew routine pretty well, and that my talents were being wasted in the lab where there just wasn't enough work to go around. He decided to put my skills to maximum use, and so he sent me down to the warehouse to uncrate returned furniture. It's not that I really hate crating and uncrating furniture while suffocating in the dust, but I was really sick to think that I had come 150 miles from home to do it. The agony was intensified even more when I reminded myself that I wasn't being allowed to make the overtime I had been promised.

Finally, after I had spent about four weeks playing around in the warehouse dust, the Military Standard Tables arrived and I was able to begin working on the sampling program. It turned out that the sampling program was for checking incoming supply room items such as screws, dowels, magnetic catches, etc. That doesn't sound like much, and it wasn't; but since the Quality Control Staff didn't know how to use the tables, I was needed. After Dr. Barefoot's FOR 444, the statistical and tabular part was pretty simple, but writing the booklet so that it sounded "classy" took a little time. I worked on the booklet now and then for about six weeks while helping with the normal lab activities, and then took two weeks off before school started again.

Reviewing the summer, I really didn't learn very much, and financially it was a "wiped out" summer. The financial "wipe out" was certainly not because of extravagant living either; so my advice to anyone who wants summer work for profit is to "Stay Home"!

A SUMMER WITH INTERNATIONAL

By MIKE WARD

Last summer I was employed at the Georgetown mill of the Southern Kraft Division, International Paper Company. The Georgetown mill is a huge complex with a capacity of around 1,800 tons of paper per day. It is also a very diverse operation that has everything from a NSSC pulp mill to a computer controlled bleach plant.

The management of the Georgetown mill was very aware and enlightened in that they gave the Technical Students (of which I was one) special projects to work with and then allowed us to use our own method and means to approach these problems. My main project was to determine if the fly ash that is emitted from the bark boilers could be utilized in some way and if not, how it could be best disposed of. I also worked on smaller projects such as rewriting Tappi procedures into control procedures and applying statistics to quality control data. In my spare time I became fairly familiar with the mill operations and the secretaries in the main office.

With Georgetown being ten miles from the fishing and swimming of Pawley's Island and thirty-five miles from the tinsel and glitter of Myrtle Beach, this was a most desirable place in which to spend a very enjoyable summer.

SUMMER WORK EXPERIENCE

By JOHN PRICHARD

During the last two summers I worked for Tennessee River Pulp and Paper Company at Counce, Tennessee. Tennessee River has one machine which produces about 720 tons of kraft linerboard per day.

The first summer I worked at Tennessee River was spent in routine laboratory quality control tests, such as liquor tests, pulp soda losses, and wood chip moisture. During both summers I occasionally helped in determination of B.O.D. losses for a distance of approximately 10 miles downstream from the mill's outlet.

Last summer I worked as a project engineer's assistant. The majority of my work was aimed toward setting up a good background for the installation of a laboratory digester, similar to the digesters at Robertson Laboratory. Refiner strength curves were made for the various pulp strength properties versus refining time. The pulps tested were pulps made at Tennessee River. The laboratory pulps now being made are compared to the pulps made in actual production by use of these curves.

In addition to this work, I also worked on several small projects of my own, such as comparison of pulp strength from the refiners with final sheet strength off the machine, and a statistical evaluation of the Accuray and Moistron units.

I really enjoyed my work at Tennessee River Pulp and Paper Company during both of the summers I spent there. I feel that this work experience was a good introduction to the pulp and paper industry, and that it greatly influenced my decision to major in pulp and paper technology.

SUMMER AS A NORTH CAROLINA STATE GOVERNMENT INTERN

During the summer of 1967, two students in the NCSU School of Forestry, Peter L. Johnson and Henry D. Smith, participated in the North Carolina State Government Internship Program. This program, which is open to residents of N.C. who have completed their junior year in college, was established in 1962 and is now run by the Institute of Government, Chapel Hill, N.C.

The internship program has the goal of sparking student interest in state government while enabling the students to make a contribution to various branches of state government. The student has a chance to observe and also participate in government, and this working, learning process makes the program unique.

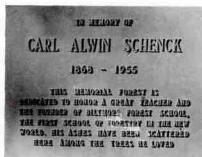
The first week of the program was an orientation period during which the interns became acquainted with almost every aspect of the state government of N.C. After this brief orientation, the interns reported to various state agencies, all based in Raleigh, and started work as full time employees. Two nights each week, the interns actively participated in seminars led by legislators, agency heads, cultural leaders, educators, and other leaders in the state.

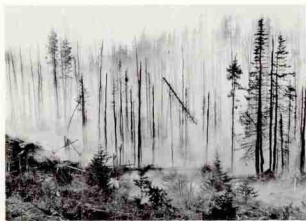
Johnson and Smith were assigned to the Department of Conservation and Development, Smith worked with the Division of Forestry and Johnson worked in the Division of Commerce and Industry.

Johnson, with the cooperation of three agencies, made a survey of major forest land ownerships in N.C. using Department of Agriculture records. This inventory will be of value in determining availability of forest land in specific areas in the state, and data on ownership patterns may also be useful in promoting and directing forest management programs. The survey has been made available to the major wood products industries in the state with the hope it will help them locate new timber supplies.

Smith collected and evaluated tree-volume data to check the accuracy of volume tables, helped calculate dollar-value yield tables, and also helped collect data for a *Pales* weevil study. All this information will be used by the N.C. Forest Service to aid in serving N.C. timber growers.

It was an interesting and informative summer for these two student foresters. In the future, qualified students with an interest in state government would do well to apply for this program of working, learning, and earning.





"T'WAS ALL BECAUSE OF ME!"

I watch the golden sun appear,
The grass with dew, just like a tear;
But sparkling in the daily light,
It makes the world seem twice as bright.
The bird has left his cozy nest,
To sing his song, now for food, in quest;
His gay melody drifts on the breeze,
To awaken the flowers, the shrubs and trees.
Animals in their beds and dens,
They too hear the symphony once again;
And each one from his rest doth arise
To roam the earth 'neath dawn-lit skies.
The bubbling brook with freshness filled,
Reaches a falls, its contents spilled;
And in the spray a rainbow's end,
Promising Man, death never again.
But then a tree goes up in flame,
Already too late, head hung in shame;
I hear the creatures scream, then flee,
Then stop to think, "T'was because of me!"
Many men are sent to fight the blaze,
The battles last for days and days;
And then the war is won, but lost,
Still lingering on, the priceless cost!
The trees are black and fallen down,
Erosion takes away the ground;
A tear-filled fawn gasps for her last breath,
To the forest 'tis known as the "Evil Black Death!"
The streams infiltrated with dust and debris,
The fish float on top, "T'was all because of me!"
Tomorrow the sun will rise just as before,
But the life of the forest will be there no more!

Geo. Glass
Aug. 1966
Dubois, Wyo.

ALUMNI PRESIDENT'S REPORT

Dear Fellow Alumnus:

The past year, 1967-1968, has marked a period of revitalization within the alumni program of the School of Forest Resources. Primary emphasis was placed on improving the list of alumni mailing addresses, increasing membership in the Association, obtaining more alumni comments for the *Pinetum*, adoption of a Constitution that defines the Association's purpose and operational framework, and the selection of alumni projects for the future.

The Association's annual meeting at the SAF, Appalachian Section meeting in Raleigh was well attended, and many basic ideas were discussed concerning the role of the alumni now and in the future. The Hofmann Loan Fund and Slocum Scholarship Fund, well established projects of the Association, have outstanding advantages to the students and will be continued. Permanent (as long as they will serve) class membership chairmen have been selected for each class and they will up-date their class mailing lists, locate unknown addresses, and urge participation in the *Pinetum* alumni comments. Certainly we can improve upon our current 11.9% participation level.

Now that a Constitution and By-laws have been adopted, the Association can effectively operate through its Board of Directors, membership, and meetings to fulfill its objectives and goals. The alumni's portrait program will be continued, and preparations are being made to have Dean Preston begin his sittings in the near future. The annual newsletter will be continued, and, perhaps, issued on a more regular basis if so desired by the group.

At the annual meeting a number of outstanding alumni projects of participation and service were discussed; some of the most important being:

- selection of the name for the new forestry building
- paneling project for room(s) in new building
- alumni team at the Rolleo
- additional group meetings as appropriate
- alumni seminars and workshops
- 40th Anniversary of the School
- dedication ceremonies upon completion of the new building
- closer ties between the School and its alumni

United and willing, the Association can become an effective part of the School now, and in the future, and also serve the graduates of the past 39 years.

Sincerely,
Hugh M. Lupold
President
Class of 1959

BOARD OF DIRECTORS

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1940's Director, A. C. Barefoot ('49), Raleigh, N. C.
1950's Director, Walter Langley ('54), Columbia, S. C.
1960's Director, Phil Clegg ('65), New Bern, N. C.
Dean Richard J. Preston

COMMITTEES

MEMBERSHIP—Robert Reese, Chairman, Al Maxwell, A. C. Barefoot, Walter Langley, and Phil Clegg
ROLLEO—Walt Keller, Chairman, Jim Hubbard, David Plowman, Eddie Jackson, and
SCHOLARSHIP AND STUDENT AID—Phil Griffiths, Chairman, Ralph C. Bryant, A. B. Hafer, and Malcolm Holmes

CLASS MEMBERSHIP CHAIRMEN

1930 D. J. Morriss	1950 M. J. Cavanaugh
1931 H. J. Loughhead	1951 H. M. Westbury
1932 W. E. Cooper	1952 C. L. Lane, Jr.
1933 A. B. Hafer	1953 P. W. Adams
1934 W. R. Smith	1954 W. R. Langley, Jr.
1935 G. E. Jackson	1955 P. L. Hardy, Jr.
1936 W. H. Utley	1956 A. L. Martin
1937 W. J. Bridges, Jr.	1957 G. S. Gibbs
1938 J. B. Hubbard	1958 T. O. Hilbourn, III
1939 Ted M. Jollay	1959 D. H. Scanlon, III
1940 J. L. Bell	
1941 G. V. Chamblee	1960 R. M. Bost
1942 J. G. Hofmann	1961 S. V. Mace
1943 J. T. Maynard	1962 C. E. Cordell
1944 H. W. Hinshaw	1963 H. C. Blanchard
1945	1964 A. B. Moore
1946 J. F. Hardee	1965 G. L. Dotson
1947 D. T. House	1966 J. B. Fiacco
1948 G. W. Smith	1967 L. R. Johnston
1949 A. C. Craft, Jr.	1968

CONSTITUTION OF THE NORTH CAROLINA STATE UNIVERSITY SCHOOL OF FOREST RESOURCES ALUMNI ASSOCIATION

ARTICLE I. NAME

The name of this organization shall be the North Carolina State University School of Forest Resources Alumni Association.

ARTICLE II. OBJECT

The objects of this association shall be

1. To promote the School of Forest Resources,
2. To promote a closer association between the School and its alumni,
3. To provide a medium of information, cooperation and communications.

ARTICLE III. MEMBERSHIP

Section 1. Membership in this association shall be limited to 3 classes: active, associate, and honorary. Active membership in the association shall be open to any graduate of the School of Forest Resources.

Section 2. Associate membership shall be open to anyone interested in the objects of this association and approved by the Board of Directors.

Section 3. The payment of annual dues to the association will be required to maintain active and associate membership.

Section 4. Honorary members may be elected at the recommendation of the membership committee and on approval of the Board of Directors.

ARTICLE IV. OFFICERS

Section 1. The elected officers of this association shall be a president, president-elect, secretary-treasurer, and one director to represent graduation classes from each decade.

Section 2. The Board of Directors shall be composed of the elected officers (Section 1), the Dean of the School of Forest Resources or his representative, and the immediate past president of the association.

Section 3. Officers shall be elected by mail ballot to all active and associate members every two years prior to the annual meeting and shall hold office until their successors are elected. A simple majority shall constitute election.

Section 4. Unexpired terms in office shall be filled through appointment by the Board of Directors.

ARTICLE V. MEETINGS AND QUORUM

Section 1. The annual meeting of this association shall be held during the Appalachian Section meeting of the Society of American Foresters.

Section 2. The Board of Directors may call special meetings as required, by giving twenty-one day's written notice to the membership.

Section 3. The membership in attendance at an annual or called meeting of the association shall constitute a quorum.

ARTICLE VI. NOMINATING COMMITTEE

The nominating committee shall be appointed by the president. This committee shall nominate one or more candidates for each of the elected offices.

ARTICLE VII. AUTHORITY OF PARLIAMENTARY LAW

Roberts Rules of Order shall govern the proceedings of all meetings of the association and its constituent parts except as provided in the Constitution and By-laws.

ARTICLE VIII. AMENDMENTS

This Constitution may be amended at any meeting of the association; provided, that the membership has been notified in writing, and that the adoption of the amendment shall require a two-thirds vote of the members present.

BY-LAWS

ARTICLE I. DUES

The dues of this association shall be three dollars per year, payable when notified. A copy of the Pinetum shall be included in payment of dues if said dues are received by March 1.

ARTICLE II. DUTIES OF THE OFFICERS

Section 1. The president shall preside at all meetings of the association and the Board of Directors. He shall supervise and coordinate the overall program of the association.

Section 2. The president-elect shall preside at meetings in the absence of the president. He shall be chairman of the Membership Committee. His primary function shall be to maintain and create active membership participation in the association.

Section 3. The secretary-treasurer shall maintain the records, attend to all membership mailings, and care for all financial matters of the association. The secretary-treasurer should be affiliated with the School of Forest Resources or a resident within a close proximity of Raleigh, N. C.

ARTICLE III. COMMITTEES

Section 1. There shall be three standing committees:
Committee on membership
Committee on the Rolleo
Committee on Scholarships and student aid

Section 2. The committee chairman and members shall be appointed by the president.

ARTICLE IV. SUSPENSION

The suspension of any part of these by-laws shall require a two-thirds vote of the members present.

ARTICLE V. AMENDMENTS

These by-laws can be amended at any annual or called meeting of the association with two-thirds vote of the members present.



Haney R. Wright, '35

Treasurer's Report

1966-67

INCOME

145 Members @ \$3.00	\$ 435.00
Contributions to Slocum Fund. Amounts over \$3.00 Alumni dues	266.00
Total	\$ 701.00

EXPENSE

Postage For Newsletter and Pinetum	105.00
Printing Newsletter	95.00
145 Copies Pinetum @ \$2.25/copy (cost)	326.25
Total	\$ 526.85

STATEMENT OF ACCOUNTS

Hofmann Loan Fund	2500.00
Slocum Scholarship Fund	
Beginning Balance	1119.83
No Withdrawals	00.00
Added This Year	174.15
	\$1293.98



Helen and Frank Williams, '42
No dynamite, trot lines or live bait
used!



Ken Jeffries, '61
Wife and children



James, 14, Eileen, 15, Julia Ann, 12, Mary Theresa, 8, Charles, 10, Catherine, 5.



Bunny Hofman, '42.
Harry Muller, '42

Alumni News

1930

HOWARD, H. E., U. S. Forest Service

"The years roll on—our oldest grandson started Little League this summer. My new assignment gave me a second interesting trip to Alaska in August. Seems my travels through N. C. are too hurried to permit a side trip to Raleigh—someday I hope to have time to drop in."

1931

ARTMAN, J. O., Tennessee Valley Authority.

"Heard recently that T. C. Evans ('30) has retired from teaching at VPI and is living in Waynesboro, Pa. Bruce Alter ('31) has retired also and J. B. Cartwright ('31) will retire at year's end—we're all getting older."

PHELPS, C. F., Virginia Game Commission.

"Still doing business (?) at the same old place."

1932

COOPER, W. E., Virginia Forests, Inc.

"Attended the joint SAF-CIF forestry meeting in Ottawa and ran into a real nest of N. C. Staters. State was rated 6th that week and the group sure was talking football. Everything seems to be go-go at State this year—hope it continues."

MAXWELL, A. H., Division of Forestry, N. C. Dept. Conservation and Development.

"Keep pushing ahead with the new Forest Resources Building."

TILLMAN, Paul W., Division of Forestry, N. C. Department of Conservation and Development.

1933

CROKER, T. C., Jr., U. S. Forest Service, SFES.

"Had a nice visit with Dean Preston last summer. Sorry I missed seeing Dr. Maki. I'll try again."

1934

CORPENING, B. H., Division of Forestry, N. C. Department of Conservation & Development.

CROW, A. B., Professor of Forestry, Louisiana State University.

"This past year I have been faculty chairman of athletics at LSU and as such have enjoyed a temporary status as a VIP. I made a football trip with the team and had a three-day blast at the Sugar Bowl in New Orleans where, fortunately, we got one of the few southern wins—so did State and I was mighty proud of them."

PLASTER, D. C., Soil Conservation Service, USDA.

SMITH, W. R., U. S. Forest Service, SFES.

"I learn that I am class chairman and my class is 0 percent in responding—don't know how that could happen. . ." (Ed. note: Wait has written to each member of his class.)

1935

FINDLAY, J. D., U. S. Bureau of Sport Fisheries and Wildlife.

(Ed. note—In a USDI news release 9/25/67 Secretary Udall announced Findlay's appointment as new Pacific Regional Director for Bureau of Sport Fisheries and Wildlife, one of the largest and most complex regions: Alaska, Washington, Oregon, California, Nevada, Idaho, Montana, Hawaii, (Guam). The release stated, ". . . Findlay is eminently qualified for the post by virtue of both technical training and a broad background of experience in State and Federal conservation programs." Congratulations and all good wishes to Findlay!)

GARDINER, T. B., Soil Conservation Service, USDA.

JACKSON, G. E., Consulting Forester.

"It is about time to start the "Preston Portrait Fund" . . . I am sending a check to get the ball rolling. We had 33 persons at the NCSU Forestry Alumni dinner in Ottawa this Fall. Everyone was interested in the progress of the School and at that time the Wolf-pack was a main topic for discussion. Progress is being made on Hofmann Forest. Tell all the old grads, faculty and friends to stop by and see the forest when in that area. Margaret was married in August and is now teaching school in Durham. Inez and I send our regards to all."

PIPPIN, J. A., Division of Forestry, N. C. Department of Conservation and Development.

"We stay busy in the sandhills on fire control and tree planting. We see right many boys from the School as they pass."

1936

AIKEN, W. C., Soil Conservation Service, USDA.

" . . . we are looking for some good foresters to train to take places of responsibility in our service—one will be needed to replace me. I have 32 years' service and am looking forward to working for myself in a few years."

HUDSON, Seaman, S. C. Industries, Inc.

1937

MATHEWSON, Clarke "Click", St. Regis Paper Company

"Now—Logging Engineer."

1938

BELTON, J. A., Western Electric Co.

"I am a Packaging Engineer with W.E.Co.—developing packaging methods and working with the various wood products, such as Kraft fibreboard, chipboard, plywood, container grade lumber, etc."

WHITMAN, J. A., Self-employed (Atlantic States Forestry Company).

"Am completing my twenty-first year of consulting practice in a dozen states and Canada, and every once in a while I manage to obtain an assignment that affords a challenge and seems like a new professional adventure."

1939

JOLLAY, T. M., Forestry Consultant.

1940

HARLEY, Ben R., Turnell and Morgan Co.

RYBURN, W. O., Ryburn Farm Eq. Co.

1941

SPIKER, T. F., USMC Retired.

"Retired from the Corps 1 July."

1942

HOFMANN, J. G., Albemarle Paper Company.

"Still in same place. Sorry more of the class of '42 could not make our 25th reunion. Bland and I tried to make up for the rest. We did win the prize for the largest family."

1943

MAYNARD, J. T., Charles Ingram Lumber Company.

1944

HOLCOMBE, R. A., National Forest Products Association.

"Hope to see many State men at the 1968 FPRS meeting in Washington, D. C. We are all "busting a gut" trying to arrange a good meeting. Regards to all."

1945

1946

1947

HOUSE, D. T., D. T. House Co., Inc.

"Enjoyed the Rolleo—as did my sons: Kirk, age 15; Walter, age 10. They enjoyed the fire fighting event best! It was indeed a very fine Rolleo and congratulations on the continued progress at the School."

1948

BLACKSTOCK, C. E., U. S. Tariff Commission.

1949

ALTMAN, J. A., American Pulpwood Association.

BOYCE, S. G., U. S. Forest Service.

"During a recent visit to Raleigh I was much impressed with the growth and development of the School of Forest Resources."

CRAFT, A. C., West Virginia Pulp and Paper Company.

GEDDES, R. B., Virginia Division of Forestry.

PARHAM, W. R., Walter R. Parham Company.

PEKAR, M. A., Amherst County School Board, Lynchburg, Virginia.

"Sorry I couldn't make the Rolleo; notice was sent to my old address and didn't give me ample time to plan. We now have three children: Jessie, age 12; Michael, Jr., age 9; John Paul, age 3 . . . have been in public school education since 1957 . . . in my third year as an elementary school principal with 21 teachers and 670 students, grades 1-7 . . . a fellow classmate Bernard Smith, is a practicing dentist here in Lynchburg."

YANCEY, T. E., Virginia Division of Forestry.

WILSON, A. D., Virginia Division of Forestry.

1950

CANTLIFFE, L. R., Jr., Northeast Lumber Sales.

"Don't get down to see you folks very often but when we do I am always amazed at the tremendous expansion programs since I graduated in 1950 as one of the "Holy 13"—at least that was what Prof. Carter called us! Have been busy these last 12 years building up a California Redwood Distribution Center here in New England, wholesaling redwood items through retail lumber companies, furniture, millwork and industrial outlets . . . anyone up this way on business or pleasure please stop by to say hello."

CAVANAUGH, M. J., U. S. Plywood-Champion Papers Inc.
ENGEL, E. J., Georgia Kraft Company.

"Family consists of a wife, 2 girls, and a cat."

LAMPE, J. G., Thomasville Furniture Industries.

PASCHAL, W. J., Assistant Post Forester, Fort Bragg

RANKIN, J. R., Pulpwood Dealer.

RHYNE, T. S., Jr., Division of Forestry, N. C. Department of Conservation & Dev.

SISSON, J. W., Continental Can Co., Inc., Woodlands Division.

WILLIS, T. L., Epes-Fitzgerald Paper Co. (Div. of Jacksonville Paper Co.)

1951

COUSINS, Charles, Exec. Vice-President, Lea Lumber and Plywood Co.

"We enjoyed having Leon Mason work with us this past summer. Hope all the current students have as much on the ball as he seems to have. I seldom see any of the '51 class. They must be scattered to the four winds . . . come by to see us whenever you are in this area."

ESTEP, E. M., U. S. Forest Service.

"Still work for another alum (Rufus H. Page), but his control is stretched a little thinner since he located me at the Forest Products Lab. in Madison in a liaison capacity for State and Private Forestry."

JERVEY, A. P., Carolina Forestry Co.

MASTEN, J. C., Acme Wood Corp.

"Many thanks for a very interesting Newsletter. Our School continues to progress and make all of us proud."

ROWE, A. F., Jr., The Planters National Bank and Trust Co., Ayden Branch.

SCHOLTES, W. E., Albemarle Paper Co.

"The Company moved me to Jacksonville 2 years ago, I am Assistant Manager of Hofmann Forest. You wouldn't know the place now—over 240 miles of roads; approximately 4500 acres converted to loblolly pine with a plan of 1500 acres of conversion each year; 2-mile long air strip capable of handling DC-3's; etc., etc. . . we'd be glad to have a visit from any graduates."

SHILLING, R. E., Jr., International Paper Company.

1952

GRAHAM, J. E., South Carolina State Commission of Forestry.

HUGHES, S. M., Area Manager, Riegel Paper Corporation.

"Same stand—just a year older!"

JACKSON, J. V., Virginia Division of Forestry.

1953

BENNETT, J. W., U. S. Forest Service.

"Promoted and transferred to Work Program Officer at the Pine Knot Job Corps Conservation Center, Dec. 3, 1967. They sure didn't teach us any courses at NCS to prepare a guy for Job Corps. It's quite an experience."

CORBETT, K. M., Jr., Louisiana Forest Products Corp.

"We saw the State-Houston Univ. game in the Astrodome. It was a great victory. Regards to all."

CRANK, P. F., Jr., Self-employed.

DORWARD, R. E., Hiwassee Land Company.

1954

ARNOLD, T. W., Weyerhaeuser Co.

"Transferred to Elizabeth City area in August 1967."

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

"We have another addition to the Harem. Linda was born in May 1967. Still plugging away as a biology instructor."

RAND, L. F., Self-employed.

RAPER, C. F., Field Supervisor, Mortgage Loan Dept., Travelers Insurance Co.

"We improved our southeastern operation and transferred your correspondent to Hartford from which I continue to travel about but on a somewhat wider scale, namely the entire country. Fascinating work that is rather overwhelming, at least so far. We face our first winter here with a positive attitude and draw great comfort from the fact that people have been living around here for 300 years. Money is tight and threatens to get tighter—a very different economy than 2 years ago . . . at this end. Come to see us if you're ever in the Northland. Cheers"

SEWELL, C. S., Gilman Paper Co.

1955

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

McGEE, E. H., County Forester.

"Please consider changing Rolleo date to December to avoid the fall fire season."

1956

CARSON, P. B., Jr., South Carolina State Commission of Forestry.

DOZIER, W. B., Self-employed.

"The growth of the School is tremendous. I become prouder of N. C. State as the years go by. Best wishes to all."

KILIAN, L. A., Jr., N. C. Division of Forestry.

1957

BUTLER, G. L., Kimberly Clark Corporation.

"Still just the two boys, Brian 10, Steve 8."

GIBBS, G. S., U. S. Forest Service.

" . . . attended Homecoming (our 8th in a row). Plan to continue this annual trek, especially now that we are again nearby."

KELLEY, J. S., U. S. Forest Service, Jacobs Creek Job Corps Center.

STEVENSON, J. C., Gig Harbor, Washington.

TERZL, Z. H., T. S. Coile, Inc.

"Have been working with Dr. Coile since July doing soil and stand maps for Albemarle



John D. Findlay



J. R. Spratt

Paper Co... have moved to Edenton to complete tracts in this part of the State . . . enjoying my work very much."
TIGHE, R. R., H. B. Davis Company.

1958

1959

DAVIS, T. P., South Mountain Pulpwood Co., Inc.
SUMMERVILLE, K. O., N. C. Forest Service.
SUMNER, L. B., U. S. Forest Service.

"Moved from Willows to San Francisco last March. Am now Regional Cadastral Engineer and have responsibility for the Land Line Location program and property boundary problems on 17 National Forests. Have pretty much changed fields; became the Region's first Zone Cadastral Surveyor in 1965 and lost my forester classification at that time. Lack of land boundary knowledge is a major problem in California. We find the magnetic compass still has a place in some of our work. Unfortunately, there is not a really good compass on the market today. Am working on the development of a superior surveyor's compass at this time. An established instrument maker is considering putting it on the market. Will furnish more details on request... am building a very interesting collection of antique surveying instruments."

TABOR, C. A., U. S. Forest Service, Timber Mgt. Res.

"As always, enjoyed reading the "Newsletter". This has been a fine year in all respects... work is progressing well and the three of us are having a wonderful time. Susan is a real charmer at the age of two. Dianne and I encourage our friends to contact us if you come into the area."

1960

BOST, Ronald M., Duke Power Company.

"Got married July 1, 1967 to the former Miss Nancy Farry."

BRAKE, R. F., The Chesapeake Corporation of Virginia.

BYERLY, R. D., Georgia Kraft Co.

CARRIGAN, W. C., MacMillan Bloedel Products Inc.

"Have accepted employment with Macmillan Bloedel Products in Camden, Ala. I am presently in charge of forest management and learning quite a bit about how to manage land and timber... my regards to faculty and staff."

FOUST, G. R., Southern Pine Asso.

LOVIN, Henry G., Catawba Timber Co.

"Certainly do appreciate the Newsletter—someone must really be stimulating our football team this year. Sure is good to see them winning."

McMINN, J. W., Southeastern Forest Experiment Station.

McNATT, J. D., U. S. Forest Products Laboratory, Madison.

"Our second son was born June 12, 1967. Our first boy is 3 years old. Work is going well at the FPL... still playing soccer... plan to visit in N. C. in April."

SELDEN, C. W., III, U. S. Air Force, Misawa Air Base, Japan.

"Currently teaching my second term of Business Enterprise for the Univ. of Maryland... enjoy it... will separate from the Air Force in 9/68 after 6 years of service... if you know of anyone seeking relatively inexperienced, mature foresters with a MBA degree and some knowledge of appraising, I will be available for employment on 16 Sept., 1968. Hope to see you all next fall."

WALLINGER, R. S., West Virginia Pulp and Paper (Wood Procurement Dept.)

"Go Wolfpack Lots of us NCS grads down here following the team. Scott, Jr. arrived May 11 and growing like a weed. Keeping busy as Staff Ass't. for Tech. Forestry to the Wood Procurement Manager... delighted to learn the new building is for real and the School continues to grow. Come see us!"

1961

- GRIMSLEY, D. L., Corps of Engineers.
 "Enjoyed having you and the senior class visit Kerr Reservoir last April. Still trying to sell the Corps of Engineers on more intensive forest management."
- KENDALL, W. A., Augusta, Georgia.
- LAMBERT, R. W., West Virginia Pulp and Paper Co., Technical Service Dept.
- LANGSTON, E. H., Captain, U. S. Army.
- MACE, Samuel V., Delaware State Forestry Department.
 "Started work with the Delaware State Forestry Dept. on February 16, '68 after three years of memorable work and many friends in Eastern Kentucky. We are looking forward to the flat land and sunny beaches this summer. Samuel Bradley is now 3½ and Robert Benjamin is 9 months."
- PRICE, A. L., American Airlines.
 "Co-Pilot flying BAC 1-11."
- WELLS, G. R., University of Tennessee.
 "Finally completed my doctoral work at Duke."

1962

- BULLARD, R. P., U. S. Forest Service.
- CONNOR, B. W., Cox Woodlands Company.
 "Up for the Homecoming but only for the day. Saw Dr. Maki at APA meeting in Atlanta... everything fine with us (wife, one boy and work)."
- ECK, T. H., Union-Camp Corp.
- GOGGANS, J. F., Auburn University, Department of Forestry.
- HUFFMAN, Tom, U. S. Forest Service.
- SPOTTS, J. W., Department of Agronomy, University of Arkansas.
 "Married Margaret Gardner (UNCG) 2/64; daughter Mary 4/65. 1962-64: 2-year tour of Germany (courtesy Uncle Sam). Most free time spent meeting "Forst meisters" and observing management operations. 1964-66: Soil Scientist, USFS, White Rock District, Ozark Nat'l Forest, mapping distribution and extent of soils, gathering interpretative data. 1966+: Research Asst., Dept. of Agronomy, Univ. of Ark. Currently working on M. S. degree in forest soils, emphasis on damage to roots by swelling & shrinking of soils with high clay content."

1963

- AITKEN, A. J., Kasann Ranger District, South Tongass National Forest.
 "Have moved out of Ketchikan to a logging camp at North Whale Pass, where I am the resident forester."
- BALDWIN, G. W., Institute of World Forestry, New York State Univ. College of Forestry.
 "Nice to hear about all the changes."
- JACKSON, L. K., Tennessee Valley Authority.
 "We were very pleasantly surprised this summer when Burton Floyd and family, Williamsburg, Ky., dropped in for a visit with us at Norris."
- McCRARY, J. E., Virginia Department of Highways.
- MANNING, H. L., Jr., U. S. Forest Service.
 "Married Nov. 18, 1967 to Miss Patricia Ann White of Sandpoint, Idaho."
- ODUM, J. S., The Buckeye Cellulose Corporation.
 "Certainly is exciting to read of progress the School is making... presently I am Re-forestation Superintendent for Buckeye and responsible for all nursery, mechanical site preparation, tree planting, and direct seeding operations. We are currently regenerating 20,000 acres/year."
- RUST, C. W., U. S. Forest Service.
 "Our daughter Terri (8 yrs.) is giving her brother, Carl Vaughn, (6 mo.) quite an orientation into the facts of who's boss! My job as resource forester is great! Multiple use on the Ojai District includes saving the big bird (Calif. Condor), administering 33 producing oil wells, accommodating a recreation population of 408,000 Visitor Days Use (CY67) and handling grazing (13 allot.), timber, watershed, and wildlife activities. Anyone in Sou. Calif. is welcome at our house. Phone: 805-6463635. Enjoyed Dr. Lammi's article in Feb. Journal."
- SMITH, G. E., Piedmont Woodyards.

1964

- DYSON, P. J., School of Forestry, University of Georgia.
 "Many thanks for the news. I'm beginning to meet students from N. C. State at the Association meetings."
- SMITH, R. C., U. S. Forest Service.
- VERMILION, T. L., Graduate Student, School of Forest Resources, N.C.S.U.
- ZOBEL, D. B., Duke University, Dept. of Botany.
 "Hope to complete Ph. D. in Botany at Duke this spring."

1965

- DUCKWORTH, C. J., James E. Hobbs, Consultant Forester.
 (Ed. note—"Crow" is back from Vietnam—wedding bells rang for "Crow" and Rosemary on February 29—every good wish from all of us. On March 13 "Crow" gave Dr. Lammi's photogrammetry class a most informative talk on "Military Uses of Aerial Photos in Vietnam.")
- DUFFY, W. C., Jr., U. S. Army.
 "Am enjoying traveling in Europe, especially observing the different forestry practices in each country."
- FISHER, H. T., Lt. J.G., U. S. Coast Guard.
 "Am XO on 82' patrol boat, Danang RUN—will not be long before I get back to FS. Sure looking forward to it."
- HANN, R. A., U. S. Forest Service, FPL.
 "Gilbert Comstock now back in Madison. Michael Hittmeier has left FPL to work on Ph. D. at Syracuse."
- HARRIS, G. S., T. S. Coile, Inc.
 "An invitation extended to all of Class of '65—the fish strike hard and the birds fly slow here in Waycross, Ga."

HARRIS, T. G., Jr.

"Have been CO of Headquarters Detachment, 1st Brigade U. S. Army Training Center, Fort Bragg since my return to the states in June, Became a civilian Dec. 11, '67. Plan to enter Wharton School of Finance, Univ. of Penn., Jan. 1968."

JEFFRIES, Jon

"Back from Vietnam."

MAXWELL, G. H., Catawba Timber Co.

1966

AHLBACK, Arnold, Provincial Board of Private Forestry, Lulea, Sweden.

ARDREY, W. M., Catawba Timber Co.

DEAL, E. L., Jr., Graduate Student, University of Georgia.

"Should receive MSF by March 1968."

FIACCO, J. B., West Virginia Pulp and Paper Co.

"Got married 7/1/67 to Miss Norene P. Fautz."

JERVIS, L. G., School of Forest Resources, N. C. State University.

OATES, R. M., U. S. Forest Service.

ROGERS, W. W., Cramer Veneers, Inc.

"Glad to see that Larry is back at NCSU . . . best wishes to everyone."

1967

CULLOM, R. M., N. C. Division of Forestry, Department of Conservation & Development.

DURHAM, J. S., Graduate Assistant in Business Admin., University of Maryland.

"My regards to all . . . I'm certainly looking forward to a career in forestry after I obtain this business degree."

JOHNSON, K. M., Fredonia, N. Y.

(Ed. Note—Unfortunately 1968 started off as a bad year for Ken. He suffered multiple injuries in an automobile accident Dec. 29, 1967. After nearly two months of intensive care, Puppy's days are looking brighter and he should soon return to his career in Oceanography (with Ben Schwanda) in Washington, D. C. Ken and Ben have been enjoying Caribbean cruises in connection with their work.)

JOHNSTON, L. R., Graduate Student in Watershed Mgmt., State Univ. College of Forestry, Syracuse, N. Y.

"Have just finished exams and I'm rather mentally exhausted! Hope things are going well on this year's PINETUM."

JONES, S. L., Jr., Radio Corporation of America.

"Employed at the only RCA-owned cabinet plant, Monticello, Indiana—wonderful job.

'68 football team mighty 'meaty'!"

KITTLESON, G. L., Carborundum Company.

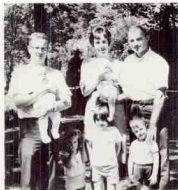
LA ROQUE, Bill, American Furniture Co. of Martinsville.

"After beginning work as a trainee in furniture production I was transferred to the Industrial engineering department . . . have been called for my army physical so please send my PINETUM to my Kinston address."

PETERSON, K. J., N. C. State Highway Department.

Ed. note—A spring wedding is planned for Kurt and Miss Jennifer Jo Lowrance of Hopewell, Va. Jennifer is a senior at NCSU. Kurt will start graduate work in Forest Engineering at Oregon State Univ. next September. Our best wishes to Kurt and Jennifer.)

WATSON, J. T., Owens-Illinois.



S. V. Mace, '61(L)

L. C. Simmons, '62(R)

ALUMNI DIRECTORY

Class of 1930

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C. A. Bittinger		Deceased
G. K. Brown	710 N. 6th St., Milwaukee, Wis. 53202	
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T. C. Evans, MS '31	Dir. Biometrical Serv., U. S. Forest Service, So. Bldg., 12th St. & Ind. Ave., Washington, D. C. 20065	
R. W. Graeber		Deceased
N. R. Harding	Dir. Wood Procurement, Ga. Kraft Co., Rt. 5, Rome, Ga. 30163	
S. G. Hile		Deceased
H. E. Howard	Apt. 515 Crystal House, 1900 So. Eads St., Arlington, Va. 22202 (USFS)	
N. J. Leander		Bedford, Pa. 15522
D. Y. Lenhart	W. Va. Pulp & Paper Co., 230 Park Ave., New York, N. Y. 10017	
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R. L. Pierce, MS '31	851 Scott St., Stroudsburg, Pa. 18360	
H. G. Posey, MS '50	Dept. of Forestry, Auburn Univ., Auburn, Ala. 36830	
H. A. Snyder		Deceased
J. W. Walters		Point Pleasant, Pa. 18950
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Class of 1931

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H. E. Altman	26 Mississippi Ave., Silver Springs, Md. 20910	
J. O. Artman	110 Hilltop Lane, Norris, Tenn. 37828 (TVA)	
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H. A. Foreman		Marshalls Creek, Pa. 18335
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H. J. Loughhead	399 Vanderbilt Rd., Bltmore Sta., Asheville, N. C. 28803 (retired)	
C. F. Phelps	204 Lakewood Drive, Richmond, Va. 23229	
C. H. Shafer	1233 Lehigh St., Allentown, Pa. 18103	
G. K. Slocum, MS '32		Deceased
W. B. Ward	15 School Lane, Springfield, Pa. 19064 (USFS)	

Class of 1932

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J. J. Kerst	Box 77, Vicksburg, Miss. 39181	
		(U. S. Corps of Engineers)
A. H. Maxwell	305 Tate St., Morganton, N. C. 28655 (USFS)	
F. J. Miller	1234 Brooks Ave., Raleigh, N. C. 27607	
C. G. Royer		Deceased
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P. W. Tillman	2632 St. Mary's St., Raleigh, N. C. 27609 (NCFS)	
W. H. Warriner	U. S. Forest Service, Jackson, Miss. 39205	
Luther Williams	Box 229, RFD 1, Monroe, N. C. 28110	

Class of 1933

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W. J. Clark	2811 Barmettler, Raleigh, N. C. 27607	
T. C. Croker	Box 769, Brewton, Ala. 36426	
A. B. Hafer	Consulting Forester, Box 655, Laurinburg, N. C. 28352	
G. W. Pettigrew	3625 Bond St., Raleigh, N. C. 27604	
M. M. Riley	Box 370, Portsmouth, Va. 23705	
R. J. Seitz	825 Jackson St., Gastonia, N. C. 28052	
A. L. Setser	5358 Tally Drive, Chamblee, Ga. 30095	
R. A. Wood	18 Buckingham Court, Asheville, N. C. 28803	

Class of 1934

W. J. Barker	112 Strode Circle, Clemson, S. C. 29631	
E. E. Chatfield	Rt. 6, Laurel, Miss. 39440	
H. H. Corpening	162 Shelburne Rd., Asheville, N. C. 28806 (NCFS)	
A. B. Crow	Prof. School of For., Louisiana State Univ., Baton Rouge, La. 70803	
F. A. Doerrie	Box 4136, Baytown, Texas 77521	
L. B. Hair	695 S. Pineview Ave., Goldsboro, N. C. 27530	
F. H. Hube	1151 W. 20th St., Laurel, Miss. 39440	
F. H. Ledbetter	Box 481, Lenoir, N. C. 28645 (NCFS)	
D. C. Plaster	111 Fox St., Morganton, N. C. 28655 (NCFS)	
C. T. Prout	7327 Keystone Lane, Apt. 402, Washington, D. C. 20025	
A. G. Shugart	Yadkinville, N. C. 28801	
W. R. Smith	72 Hibriten Dr., Asheville, N. C. 28801 (USFS)	

Class of 1935

H. F. Bishop	Woodland Ave., Marion, N. C. 28752	
W. E. Boykin	Box 267, Lillington, N. C. 27546	
V. W. Comfort	U. S. Forest Service, Gulfport, Miss. 39501	
F. J. Czabator	College of Forestry, State Univ. of N. Y., Syracuse, N. Y. 13210	
L. S. Dearborn	Rt. 1, Box 84, Flagstaff, Arizona 86001	

O. R. Douglas Box 1626, Station A, Anderson, S. C. (29623)
(Mead Corp.)
J. D. Findlay 1103 N.E. Davis St., Portland, Ore. 97220
T. B. Gardiner 4223 12th Rd. S., Arlington, Va. 22204 (SCS)
J. B. Graves 403 Court St., Talladega, Ala. 35160
F. A. Hodnett Box 535, Dublin, Va. 24084
W. W. Hood Camp Blanding, Starke, Fla. 32091
..... (St. Fla. Military Dept.)
G. E. Jackson Consultant, 604 West Main St., Washington, N. C. 27889
B. R. Kaler Soil Conservation Service, Norwich, N. Y. 13815
J. W. Miller Asst. Prof. of Forestry, Univ. of Florida, Gainesville, Fla. 32603
F. N. Newnham U. S. Forest Serv. Regional Office, Atlanta, Ga. 30323
H. W. Oliver Princeton, N. C. 27369
R. H. Page, Jr. 3518 Majestic Lane, Bowie, Md. 20715
J. A. Pippin Box 664, Rockingham, N. C. 28379 (NCF8)
E. G. Roberts Mississippi State College, State College, Miss. 39762
M. W. Shugart Soil Conservation Service, Halifax N., C. 27839
J. R. Spratt Box 236, Labelle, Fla. 33935 (Alico Land Dev. Co.)
J. M. Stingley Deceased
W. E. Stitt Deceased
H. R. Wright Highlands, N. C. 28741

Class of 1936

A. G. Adman 2500 Uhl Court, Dayton, Ohio 45420
W. C. Aiken P.O. Box 311, Auburn, Ala. 36830 (SCS)
L. K. Andrews P.O. Box 2087 SE Station, Columbus, Miss. 39701
O. T. Ballentine Deceased
R. O. Bennett Deceased
A. H. Black 200 Third Ave., Scottsdale, Pa. 15083
H. M. Grandall 913 29th St., S.W., Birmingham, Ala. 35211
D. C. Dixon Dixon Tire Sales, Lancaster, S. C. 29720
W. M. Hill General Delivery, Thomasville, N. C. 27360
S. K. Hudson Rt. 1, Box 198, Florence, S. C. 29501 (S. C. Industries, Inc.)
O. H. James Wallace, N. C. 28466
C. S. Layton Rt. 1, Greensboro, N. C. 27406
L. N. Massey Carolina Power & Light Co., Raleigh, N. C. 27601
A. D. Nease Box 1339, St. Augustine, Fla. 32084
P. M. Obat Deceased
D. M. Parker Sunbury, N. C. 27979
C. C. Pettit Box 936, Sylva, N. C. 28779
C. G. Riley Pleasant Garden, N. C. 27313
J. L. Senright Deceased
M. E. Sewell Rt. 1, Dalton, Pa. 18414
J. E. Thornton 1035 C. St., Harrisonburg, Va. 22801
W. H. Utley 300 Country Club Dr., New Bern, N. C. 28562
J. S. Vass 4520 Alabama Ave., Chattanooga, Tenn. 37409
L. H. Welsh 732 Forest Hill Dr., Wilmington, N. C. 28403

Class of 1937

W. J. Bridges, Jr. 500 Lee St., Franklin, Va. 23851 (Union Camp)
Locke Craig Champion Celulose S.A., Caixa Postal, 10, Mogi Guaçu,
Sao Paulo, Brazil, S. A.
J. W. Davis 702 Princeton Dr., Wilmington, N. C. 28403
..... (Exec. Dir. Ports Authority)
P. L. Davis L. N. Davis Co. Drawer 630, Waynesville, N. C. 28786
W. G. Davis Box 351, Bryson City, N. C. 28779
Henry Delpin Unknown
J. M. Deyton Green Mountain, N. C. 28740
N. P. Edge Deceased
C. A. Fox 1308 National Ave., New Bern, N. C. 28562 (NCF8)
W. D. Gash 520 Beardslee St., Moss Point, Miss. 39563
A. J. Gerlock Rt. 1, P.O. Box 137, Fairburn, Ga. 30213 (Self-Real Estate)
J. H. Griffin Deceased
A. F. Hein Deceased
J. B. Heltzel Virginian Forest Service, Charlottesville, Va. 22990
T. B. Henderson Rt. 1, Box 115A, Williamsburg, Va. 23185
J. W. Hendrix Unknown
T. M. Howerton, Jr. P.O. Box 620, Madison, Fla. 32340 (Consultant)
E. L. Hurst 3636 Goodview Ave. SW, Roanoke, Va. 24273
Clarke Mathewson, MS Box 18020, St. Regis Paper Co., Jacksonville, Fla. 32229
C. M. Matthews Univ. of New Hampshire, Forestry, Durham, N. H. 03824
J. A. Matthews Box 25, Southern Pines, N. C. 28387
Joseph Matys Unknown
B. H. Mayfield c/o F. D. Mayfield, 1750 Boulderview Dr. SE, Atlanta, Ga. 30316
F. D. Mayfield 1750 Boulderview Dr. SE, Atlanta, Ga. 30316
R. L. Nicholson Unknown
H. O. Roach Unknown
C. F. Russell 513 Nelson Dr., Jacksonville, N. C. 28540
L. P. Spitalnik Unknown
L. W. Troxler 224 Carriher Ave., Salisbury, N. C. 28144
J. Walsh 265 Mission Dr., Camarillo, Calif. 93010
W. H. Wheeler, Jr. Box 610, Wadesboro, N. C. 28170 (CPL)

Class of 1938

J. A. Belton	363 Elmwood, Winston-Salem, N. C.	27167	Deceased
H. C. Bragaw			
J. S. Campbell	RD 2, Sedley Rd., Franklin, Va.	05457	
W. A. Campbell	1915 Wigmore St., Jacksonville, Fla.	32206	
C. J. Cheslock			Orbisona, Pa. 17845
W. L. Colwell, Jr.	182 Ardith Court, Orinda, Calif.	94563	
P. C. Conner	Firestone Plantations Co., Harbel, Liberia, W. Africa		
M. M. Dillingham	41 Park Lane W., Asheville, N. C.	28806	
D. C. Dixon			Lancaster, S. C. 29720
R. C. Eaker	1904 Bragg St., Monroe, N. C.	28110	
J. W. Farrisior			Deceased
J. H. Findlay	902 Edgemont Circle, Gastonia, N. C.	28052	
G. H. Floyd	116 Pittman St., Fairmont, N. C.	28340	
W. L. Foster	W. Virginia Pulp & Paper Co., Summertville, S. C.	29483	
B. Griffin			Red Oak, N. C. 27868
P. A. Griffiths	1400 Ridge Rd., Raleigh, N. C.	27607	
R. M. Henry	2290 W. 36th St., Pine Bluff, Ark.	71601	
L. H. Hobbs	266 Kilgore Hall, NCSU, Raleigh, N. C.	27607	
A. J. Honeycutt, Jr.	1334 Oberlin Rd., Raleigh, N. C.	27608	
J. B. Hubbard	3036 Churchill Rd., Raleigh, N. C.	27607 (NCF5)	
James L. Huff			Maysville, N. C. 28556
G. W. Hunter	424 Chesterfield Rd., Raleigh, N. C.	27608	
V. V. Kareiva	2303 Byrd St., Raleigh, N. C.	27608	
H. W. Lull	Div. of Watershed Mgt., NE Forest Exp. Sta., Upper Darby, Pa.	19082	
T. J. McManis			Deceased
W. J. Marshburn	206 Surziner Rd., Rockingham, N. C.	28379	
Col. J. P. Moorfield	7517 Lansing Dr., Camp Springs, Md.	20023	
R. M. Nelson, MF '39	c/o Robert B. Tucker, 809 Philadelphia Ave., Chambersburg, Pa.	17201	
E. W. Ryder	11 S. Prince St., Shippensburg, Pa.	17257	
Col. C. B. Shimer	2709 Webb St., Raleigh, N. C.	27609	
G. E. Smith	901 Sumter St., Columbia, S. C.	29201 (USDA, SCS)	
I. W. Smith	Apt. A-1107, 1600 S. Joyce, Arlington, Va.	22206	
P. L. Warlick	398 Vanderbilt Rd., Biltmore Forest, Asheville, N. C.	28803	
N. B. Watts	Rt. 5, Box 183, Raleigh, N. C.	27607 (NCSU)	
J. A. Whitman	P.O. Box 477, Atlantic States Forest Co., Carthage, N. C.	28327	
W. W. Wooden			Deceased

Class of 1939

G. W. Arnott			Deceased
J. B. Bailey	4200 Reavis Rd., Raleigh, N. C.	27606	
W. M. Bailey			Lynn Haven, Florida 32444
J. S. Barker, Jr.	2406 Shirley Rd., Wilmington, N. C.	28401 Corbett Pkg. Co.	
W. L. Beasley	Bensley Lumber Products, Scotland Neck, N. C.	27874	
A. E. Butler	3405 Melrose Drive, Raleigh, N. C.	27604	
C. K. Dale			Unknown
R. L. Esterfield			Unknown
W. G. Evans			Deceased
J. T. Frye, Jr.	365 Forest Avenue, Athens, Tenn.	37303	
C. D. Harris	P.O. Box 366, Lexington, N. C.	27292	
H. J. Hartley	308 Bath St., Clifton Forge, Va.	24422	
D. P. Hughes	Box 116, Colerain, N. C.	27924	
Ted M. Jolley	1707 Broad St., Camden, S. C.	29020 (Consultant)	
R. S. Johnson	710 King St., Laurinburg, N. C.	28352	
J. V. Lyon			Unknown
H. C. Martin	2325 Brandon Ave., Ronnoke, Va.	24015	
C. L. Page			White Pond, S. C. 29854
C. H. Peterson	Johns Manville Corp., Jarratt, Va.	23867	
H. W. Plummer, Jr.			Unknown
Chester Reed			Unknown
J. P. Reeves	1831 Leavenworth St., Manhattan, Kansas	66502	
H. R. Rupp			Unknown
R. W. Sholley			Deceased
R. W. Slocum	1203 Maple Avenue, Richmond, Va.	23226	
E. W. Smith, III	4616 Mason Drive, Boise, Idaho	83700	
J. J. Steele	Box 152, Lenoir, N. C.	28645	
H. P. Stoffregen			Deceased
I. L. Taylor	Rt. 1, Harrisburg, N. C.	28075	
E. M. Walker	International Paper Co., Pine Bluff, Ark.	71601	
C. N. Wright	224 McGhee Ave., Greenwood, S. C.	29046 Wright Pulpwood Agency	
P. B. Yeager			Unknown
M. M. Young			Unknown

Class of 1940

J. D. Atkins			Unknown
J. L. Bell	Box 332, Davidson, N. C.	28036 (Equitable Life Assn. Co.)	
R. W. Brake			Unknown
R. L. Cain			Unknown
George Charconas			Unknown
R. E. Davis			Unknown
W. B. Dunn	8 Central Ave., Warren, Pa.	16366	
T. E. Gerber	444 North Wood Ave., Florence, Ala.	35630	
W. E. Gibbins	Weyerhaeuser Timber Co., Plymouth, N. C.	27962	

B. R. Harley Box 548, Elizabethtown, N. C. 28337 (Turnell & Morgan Co.)
 B. S. Hays Dept. Conservation & Dev., Div. of Forestry, Raleigh, N. C. 27603
 J. W. Hilton Deceased
 S. O. Ingram, Jr., Col. APO 238, New York, N. Y. 09238 (Air Force)
 M. M. Karlman Unknown
 R. M. King, Jr. 217 Sunset Lane, Panama City, Fla. 32401
 C. D. Kuhns 100 White Oak St., Kutztown, Pa. 19530
 R. K. Lee 312 Bola Dr., Alexandria, La. 71301
 P. J. Lenzer Box 13, Wrightstown, N. J. 08562
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 J. F. Needham 329 Plyler's Lane, Chillicothe, Ohio 45601
 J. F. Nigro Millbrook, New York 12545 (SCS)
 A. A. Novitskie, Jr. Unknown
 Col. W. E. Odom, Jr. Hdqs. USAFE, DCS Intelligence, New York, N. Y. 09633
 Lee Perks Unknown
 L. L. Perry Deceased
 C. H. Peterson Johns Manville, Jarratt, Va. 23867
 Ernest Roberts Unknown
 W. O. Ryburn Ryburn Farm Equipment Co., P. O. Box 618, Salisbury, N. C. 28144 (Self)
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 R. S. Swanson Box 462, Newton, N. C. 28658

Class of 1941

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 (Chapman Chem. Co.)
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 G. V. Chamblee N. C. Forest Service, Raleigh, N. C. 27607
 P. M. Cromartie West Lumber & Box Co., P.O. Box 870, Fayetteville, N. C. 28302
 E. H. Erierson, Jr. Old Neck Rd., Manchester, Mass. 01944
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 Michael Goral 2412 W. 104th Terrace, Lenwood, Kansas 66206
 B. T. Griffith 4450 Bit & Spur Rd., Mobile, Ala. 36608
 T. J. Hartman 12701 Valleywood Drive, Silver Springs, Md. 20906
 P. G. Harris 421 Rightmyer Drive, Roanoke Rapids, N. C. 27870
 R. E. Huff 502 East Brash Road, Ridgewood, N. J. 11227
 R. H. Landon Deceased
 A. L. Jolly 710 Marion Lane, Salem, Va. 24153 (Va. Forest Service)
 Jesse Levine Unknown
 J. E. Melver, Jr. P.O. Box 50, Georgetown, S. C. 29440 (Int. Paper Co.)
 W. C. Pickett 433 Ridgeway Avenue, Statesville, N. C. 28677
 T. F. Spiker, Col. 2486 Chanate Rd., Santa Rosa, Calif. 95404
 D. F. Traylor Box 1077, Southern Pines, N. C. 28387
 J. H. Wiggins, Jr. 4232 Arbutus Drive, Raleigh, N. C. 27609 (SCS)
 S. L. Wilson 605 Camellia Circle, Florence, S. C. 29501

Class of 1942

W. A. Bland Box 257, Goldsboro, N. C. 27530
 B. L. Cook 4814 W. Mtn. View Drive, San Diego 4, Calif. 92116
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 R. S. Douglas 262 Kilgore Hall, NCSU, Raleigh, N. C. 27607 (Forestry Extension)
 Paul Gawkowski Unknown
 J. E. Hobbs Edenton, N. C. 27932
 J. G. Hofmann Box 145, Roanoke Rapids, N. C. 27870 (Athens Paper Mfg. Co.)
 G. M. Howe 42 Normandy Place, Roselle, N. J. 07203
 H. S. Katz 11 Wisner Place, Middleton, New York 10940
 E. F. Leynath 223 Lincoln Ave., Rutland, Vermont 05701 (State of Vt.)
 H. S. Muller, Jr. Box 122, Kinsale, Va. 22458
 A. E. Johnson Camenton, N. Y. 12415
 A. A. Pruitt, Jr. Box 667, Washington, Ga. 30673 (Champion Papers Inc.)
 F. A. Santapolo Dept. of Sociology, Fordham University, New York 58, N. Y. 10007
 J. T. Thurner 601 Mildred St., St. Mary's, Ga. 31558 (Gilman Paper Co.)
 P. D. Williams 1226 Salem Drive, Charlotte, N. C. 28209

Class of 1943

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 J. N. Etheridge Box 676, Plymouth, N. C. 27962 (Etheridge Land & Timber Co.)
 Morris Green 756 Pelham Parkway S., Bronx, New York 10462
 R. B. Lutz Unknown
 J. D. Martin Fluck-Jones Lumber Co., 704 S. Main St., Summerville, S. C. 29483
 J. T. Maynard 407 Meeting St., Georgetown, S. C. 29440
 O. F. Martin 5010 Peadary Pl., Raleigh, N. C. 27609
 W. H. Ogden 5812 Hillcock Ave., Fountain City, Tenn.
 H. D. Packard RFD #1, Lloyd Road, Bernardsville, N. J. 07924
 (Eastern Sales Mrr. Taylor-Piedmont)
 E. H. Sayre Box 263, Tryon, N. C. 28782
 J. L. Schoub RFD 2, Saluda, S. C. 29138
 H. L. Terry Box 2719, Raleigh, N. C. 27602
 E. H. Ward 15 Anne St., Ozark, Ala. 36360
 J. F. Williams Windsor, N. C. 27983
 R. W. Wood 207 Todt Hill Rd., Staten Island, N. Y. 10314

Class of 1944

H. W. Hinshaw 701 Knollwood Ave., Winston-Salem, N. C. 27103

R. A. Holcombe 1619 Massachusetts Ave. NW, Washington, D. C. 20036
(Natl. F.P. Assoc.)

Class of 1945

Class of 1946

J. F. Hardee Route 7, Raleigh, N. C. 27609
C. M. Hartscock, Jr. 2907 Varnell Ave., Raleigh, N. C. 27609
Henry Kaczynski 1907 Chestnut Ave., Trenton, N. J. 08611
R. J. Robertson Route 3, Salisbury, Md. 21801
S. G. Spruiell 120 Lindbury Rd., Bueyton, Ala. 35020
E. T. Sullivan School of Forestry, Univ. of Fla., Gainesville, Fla. 32601

Class of 1947

W. J. Barton Union Camp Corp., Homerville, Ga. 31634
W. S. Campbell College Park, Staunton, Va. 24401
Robert Dorsen 8404 Whitmans Drive, Bethesda, Md. 20014 (Robert Dorsen, Inc.)
W. J. Ellis, Jr. Box 17, Jarratt, Va. 23867
J. H. Hardee USAID, American Embassy, Santo Domingo, Dominican Republic
Norman P. Hodul 104 Dogwood Lane, Port Jefferson, Long Island, New York 11777
(H.S. teacher)
D. T. House P. O. Box 116, Louisburg, N. C. 27549 (D. T. House, Co., Inc.)
J. B. Johnson 2816 Holly Springs Rd., Raleigh, N. C. 27603 (Johnson Grading Company)
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W. M. Keller 260 Kilgore Hall, NCSU, Raleigh, N. C. 27607
R. D. Mabone 1037 Capitol Landring Rd., Williamsburg, Va. 23185
C. E. Schreyer, Jr. 49 Fayette Rd., Seaside, N. Y. 10583
(Charles E. Schreyer & Sons, Inc.)
W. L. Wharton, Jr. 315 Bomar Place, Springhill Station, Mobile Ala. 36609

Class of 1948

C. E. Blackstock, Jr. 6805 Bradford Place, Laurel, Md. 20810 (U. S. Tariff Comm.)
R. C. Boyette 17 Lindley Ave., Sumter, S. C. 29159 (Plywood Co., Williams Furn. Co.)
R. N. Craven Box 755, Belmont, N. C. 28012
N. E. Dayvault, Maj. 1st. Mar., FPO San Francisco, Calif. 96601
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W. W. Herlevick 3627 Stratford Blvd., Wilmington, N. C. 28401
T. W. Hook, Jr. 436 Fenton Place, Charlotte, N. C. 28207
T. F. Icard 2041 Main St., Sarasota, Fla. 33577 (Attorney)
S. N. McKeever Spring Creek, West Virginia 24975
E. N. Seltzer 135 Beech St., NW, Concord, N. C. 28025 (Jake Rudisill Assoc. Inc.)
G. W. Smith, MF '58 Ricks Hall, NCSU, Raleigh, N. C. 27607
(Assoc. Dir. Ag. Ext. Serv.)
L. J. Smith, Jr. Box P, Clarksville, Ga. 30523
R. I. Solow 110 South Gate Rd., Elkins, W. Va. 26241 (Alleghany Lmbr. Co.)
Fred West English Dept., Univ. of Colorado, Ft. Collins, Colorado 80521
B. M. Zuckerman Dept. of Plant Pathology, Institute of Agriculture, Rehovot, Israel
(sabbatical)

Class of 1949

V. D. Adams Unknown
B. L. Allen Box 30 Benvenue Rd., Rocky Mount, N. C. 27801
J. A. Altman 225 N. State St., Jackson, Miss. 39201 (American Pulpmwood Assn.)
R. J. Alvis Watershed Mgt., Box 4137, Portland, Oregon 97208 (USFS)
G. W. Barnes 415 Elm St., Raleigh, N. C. 27604
J. C. Baskerville Unknown
J. B. Bernard, Jr. 1626 Clarkson Ave., Newberry, S. C. 29108
R. Q. Bishop 405 Greenway Dr., Florence, S. C. 29501
A. W. Boxwell 336 Oakdale Rd., Rocky Mount, N. C. 27801
S. G. Boyce, MS '61, Ph.D. '53 926 Madison St., Arlington, Va. 22205
(USFS, Washington, D. C.)
C. A. Broadway 405 Springwood Drive, Spartanburg, S. C. 29302
E. F. Corn Dist. Forester, N. C. Forest Service, Rocky Mount, N. C. 27801
A. C. Craft Canterbury Road, Manning, S. C. 29102 (W. Va. Pulp and Paper)
T. S. Davis c/o J. S. Davis, Troy, N. C. 27371
W. C. Deaton 865 Barber Road, Southern Pines, N. C. 28387 (CP&L)
G. V. Durham 1204 Liberty St., Durham, N. C. 27704
A. J. Elder 215 Forest Road, Fanwood, N. J. 07023
G. R. Fuller 311 N. Bridge St., Elkin, N. C. 28621
J. H. Gandy Harbel, Liberia, West Africa
R. B. Geddes Rt. 3, Box 3, Tappahannock, Va. 22560 (Va. Div. Forestry)
W. H. Geddes Rt. 1, Box 713, Accokeek, Md. 20607 (USN Oceanographic Office)
J. D. Guthrie 578 W. Shadowlawn Drive, Chattanooga, Tenn. 37404
J. P. Harper Box A1, Richmond Hill, Ga. 31324 (IPCo)
A. R. Harris Box 553, Clinton, N. C. 28328
T. M. Hasell, Jr. Box 1559, Wilmington, N. C. 28401 (IPCo)
R. L. Horse Rt. 5, Shelby, N. C. 28150 (So. Pine Inspection Bureau)
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(Container Corp. of America)
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Class of 1957

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W. C. Asher, MSF USFS, 200 PO Bldg., Box 92, Lake City, Fla. 32055
W. P. Andrews, Jr. Champion Paper Co., Canton, N. C. 28716
P. M. Boulogne, Jr. Research Forester, Savannah, Ga. 31400 (Union Camp Corp.)
J. C. Burns 190 High St., Metuchen, New Jersey 08840
G. L. Butler, Jr. Box 111, Linville, Ala. 36266
(Coosa R. Nap. Co., Div. Kim. Clark)
D. S. Calderon 8 Ryerson Ave., Newton, N. J. 07860 (N. J. Bureau of Forestry)
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V. A. Ciliberti, Jr. Consolidated Papers, Wisconsin Rapids, Wisc. 54494
R. A. Crumpler 321 S. 6th St., Fernandina Beach, Fla. 32034
(Container Corp. of Amer.)
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J. D. Edwards Box 95, Pisgah Forest, N. C. 28768
J. B. Emory Unknown
R. W. George, Jr. Chesapeake Corp. of Va., West Point, Va. 23181
G. S. Gibbs 194 Castlerock Dr., Asheville, N. C. 28806 (USFS)
A. R. O. Al-Hadidy Directorate General Forests & Plantations, Baghdad,
Republic of IRAQ
W. L. Hadley, MF, Ph.D. School of Forestry, NCSU, Raleigh, N. C. 27607
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W. A. Blalock Rt. 1, Horse Shoe, N. C. 28742
R. A. Brown 305 N. Holden Rd., Greensboro, N. C. 27410

H. H. Cabe	Rust Engineering Co., Birmingham, Ala.	85200
N. K. Clark	12 East 49th St., Savannah, Ga.	31405
J. H. DeCoste	P.O. Box 236, Macon, Ga.	31202
D. H. Dillard, Jr.	Carotell Paper Board Co., Talors, S. C.	29687
Capt. A. W. Donegan	Bowaters Southern Paper Corp., Calhoun, Tenn.	37309
T. A. Eakins	208 Meadow Wood Circle, Rt. 2, Guntersville, Ala.	35976
T. W. Earle, Jr.	501 Stratford Rd., Augusta, Ga.	30902
Capt. H. H. Erwin, III	522-C S. Valdez Ct., Ft. Benning, Ga.	31905
J. B. Fortin, Jr.	Dist. Ranger, Chattahoochee Nat'l For., 508 S. Main St., LaFayette, Ga.	30728
R. C. Franklin	1109 Toledo Ave., Lynchburg, Va.	24502
J. C. Goodman	837 Anthony Circle, Charlotte, N. C.	28211
C. R. Grady	N. C. Forest Service, Education Building, Raleigh, N. C.	27603
G. G. Green, Jr.	2606 Sater St., Durham, N. C.	27703
R. F. Gurganus	U.S. Forest Service, Robbinsville, N. C.	28771
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T. O. Hilbourn III, MS '65	Weyerhaeuser Co., N. C. Division, Plymouth, N. C.	27962
C. C. Hills	P.O. Box 637, Holly Hill, S. C.	29059 (Consultant)
A. R. Al-Jaffari	Dept. of Forestry, Forest Service, Baghdad, IRAQ	
T. B. Kennedy, Jr.	Rt. 1, Lewisburg, Pa.	17837
J. C. Kirkman, Jr.	Box 186, Jamesville, N. C.	27846
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A. M. Salih	Ana-Dellah AlIQuarter, Ana, IRAQ	
G. E. J. Sawyer	P.O. Box 79, Providence Forge, Va.	23140
W. L. Shearin, Jr.	Unit Structures, Morrisville, N. C.	27560
M. S. Al-Simaani	Govt. of Iraq, Directorate General of Industrial Design and Construction, Ministry of Industry, Baghdad, IRAQ	
R. C. Simmons	S. C. Comm. of Forestry, Spartanburg, S. C.	
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F. L. Thorne	Caroline St., Sylva, N. C.	28779
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M. T. Tilghman	c/o J. C. Tilghman, 611 Cedar St., Weldon, N. C.	27890
D. L. Torrence	Waverly, Va.	23890 (Gray Lumber Co.)
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R. J. Biekel	W. Va. P&P Co., New Orleans, La.	
L. D. Bonner, Jr.	Rt. 1, Aurora, N. C.	27806
J. A. Brown	Box 266, Glen Alpine, N. C.	28628 (Drexel)
W. C. Capps	Box 66, Alberta, Va.	23821
W. J. Coker, Jr.	224 Ronnoke Ave., Roanoke Rapids, N. C.	27870
R. L. Cooke	1424 Highland Coos Bay, Oregon	97420
T. P. Davis	Rt. 8, Box 112, Shelby, N. C.	28150 (So. Mtn. Pulpwood Co. VP)
O. C. Dodge	3114 Comet Rd., Richmond, Va.	23229 (Va. Elec. & Power)
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W. E. Freeman	Box 345, Orangeburg, S. C.	29115 (S. C. St. For.)
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R. C. Gilbert	Olmstead Hill Rd., Wilton, Conn.	06897
P. D. Glass	RFD Box 12A, Heber, Utah	84032 (USFS)
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E. V. Griffin	Box 345, Nashville, N. C.	27856
H. D. Hannah	Va. Div. of Forestry, Waverly, Va.	23890
T. L. Hayworth	Rt. 1, High Point, N. C.	27260
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D. G. Jackson	119 Camellia Dr., Summerville, S. C.	29483 (Brookhill Furn. Fac.)
N. D. Jackson, MWT '59	W. Va. University, Morgantown, W. Va.	26505
T. S. Koenig	1105 Gatland St., Pampa, Texas	79065
T. P. Lennon	Ranger Station, Clarkin, Idaho	83812
J. H. Lively, Jr.	USFS, Idylwild, Calif.	92349
H. M. Lupold	6247 Kemberly St., Columbia, S. C.	29209
G. H. McEachern	Riegel Paper Corp., Riegelwood, N. C.	28456
R. L. Mattocks, III	Albemarle Paper & Mfg. Co., Roanoke Rapids, N. C.	27870
H. W. Mills	Rt. 3, Box 208, Canton, N. C.	28716 (Champion)
D. V. Mitchell, MWT '59	Rt. 2, Bartlesville, Okla.	74003
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T. L. Price, MF	Rt. 1, Robbinsville, N. C.	28771 (USFS)

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D. Roten Fleetwood, N. C. 28626
J. K. Russell Unknown
D. H. Scanlon III 20 Ridgeway, Norris, Tenn. 37825 (TVA)
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E. R. Smith, ME 5535 Navajo Trail, Alexandria, La. 71301
K. W. Stonecypher Southland's Exp. Forest, International Paper Co.,
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J. C. Sturgill 24 Mt. View St., Petersburg, W. Va. 26847 (W. Va. P&P)
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G. H. Belt, Jr. 701 E. Third St., Moscow, Idaho 83843
D. P. Bhargava Dampier Nagar, Mathura, U.P. India
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D. C. Bourne Box 399, Georgetown, S. C. (Int. Paper Co.) 29440
R. F. Brake Chesapeake Corp. of Virginia, West Point, Va. 23181
D. L. Bramlett Rt. 4, Christiansburg, Va. 24073
L. G. Breeman West Point, Va. 23181
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W. G. Cawthorne Westwood Estates, Abingdon, Virginia 24210
J. P. Churchill, MSWT 4740 Holiday Dr., Fairfield, Ohio 45814 (Champion P&P Co.)
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T. W. Collier Route 5, Box 535, Goldsboro, N. C. 27530
T. W. Corken International Paper Co., Pine Bluff, Ark. 71601
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A. R. Hollowell N. C. Pulp Co., Plymouth, N. C. 27962
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T. G. Hunter Virginia Div. of Forestry, Farmville, Va. 23941
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H. G. Lovin, Jr., MF P.O. Drawer 550, Lancaster, S. C. 29720 (Catawba Timber Co.)
S. S. Luczqski P.O. Box 56, Great Bend, New York (St. Regis Paper Co.,
Deferiet, N. Y.) 13643
J. E. McCaffrey, Jr. International Paper Co., Pine Bluff, Arkansas 71601
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 T. L. Robinson St. Regis Paper Co., Monticello, Miss. 39654
 P. C. Rose Unknown
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 C. A. Turner, III 1913 Joaquin St., Modesto, Calif. (Simpson-Lee Paper Co., Ripon, Calif.) 95230
 L. R. Taylor, Jr. 408 Maple St., Weldon, N. C. (Asst. Co. Agent) 27890
 E. F. Thompson, MSF 114½ Denton Dr., Blacksburg, Va. 24060
 J. R. Thompson Packaging Division OLIN, Ecusta Paper Division, Piagah Forest, N. C. 28768
 M. G. True, Jr., MF c/o U.S. Forest Service, Tell City, Indiana 47886
 J. B. Vinson Chesapeake Corp. of Virginia, West Point, Va. 23181
 R. S. Wallinger 126 Gadsden St., S., Summerville, S. C. 29483 (W. Va. P&P Co.)
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Class of 1961

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 A. C. Boyette 1190 Loxley Place, Raleigh, N. C. 27610
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 C. S. Briggs 803 Haywood Place, New Bern, N. C. 28560 (USFS)
 R. B. Brill Urbanna, Virginia 23175
 C. C. Brown 535 Virginia St., Roanoke Rapids, N. C. (Albemarle Paper Co.) 27870
 W. B. Buckley TVA, Asheville, N. C.
 C. N. Carter P. H. Glatfelter, Spring Grove, Pa. 17362
 G. K. Chandrathil Circle Forest Officer, West Coast Paper Mills Ltd., Dandell, India
 H. C. Cuninghame, Jr. 1605 Edgewood Drive, Elizabeth City, N. C. 27909
 (J. W. Jones Lumber Co.)
 W. R. Dabney 151 North Broadway, South Amboy, N. J. 08879
 R. B. Deaton St. Regis Paper Co., Monticello, Miss. 39654
 L. W. Eckstein, Jr. School of Forestry, Duke Univ., Durham, N. C. 27706
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 G. L. Gaines 3207 Broadview Dr., Fayetteville, N. C. 28301 (Manchester Woodyards)
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 C. M. Gurganus 1327 Northview Ave., Atlanta, Ga. 30306 (USFS)
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 Ted Harris Apt. 89, Wedgewood Apts., West 1st St., Winston-Salem, N. C. 27104
 (Tri-City Bldg. Components)
 Thomas Hinson 710 Forest Lake Dr., Macon, Ga. 31204
 P. C. Hogan Box 515, Troy, N. C. 27371
 P. P. Holland 45 Pearl St., Canton, N. C. 28716
 C. T. Holloman Albemarle Paper Co., Richmond, Va.
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 J. P. McPherson 2908 Elmhurst Circle, Raleigh, N. C. (Real Estate Broker) 27610
 S. V. Mace R.D. #2, Snayrna, Del. 19077 (Del. For. Serv.)
 J. L. Martin Wine St., Mullins, S. C. 29374

R. W. Miller 213 E. Harford St., Milford, Pa. (USA) 18337
 A. R. Moore 1930 Parker Lane, Rockingham, N. C. (NCFS) 28379
 L. A. Nichols Box 29, Rt. 1, Wellboro, Pa. (USA) 16901
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 T. A. Owens Hudson Pulp and Paper Co., Palatka, Fla. 32077
 W. H. Peele, Jr. Albemarle Paper and Mfg. Co., Roanoke Rapids, N. C. 27870
 R. B. Phelps, MSWT 1454 N. Beauregard St., Apt. 203, Alexandria, Va. 22311
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 H. W. Preythe 1404 Fairfax Ave., Elizabeth City, N. C. 27909
 E. C. Puckhaber Sylvan Chemicals Division, Magnolia Industries, Inman, S. C. 29349
 J. B. Reavis Route 1, Conway, S. C. 29526
 A. J. Rhodes, Jr. St. Regis Paper Co., Monticello, Miss. 39654
 C. C. Rice S. C. Comm. of Forestry, Patrick, S. C. 29584
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 H. J. Scheurenbrand, Jr. 21-C, 1410 Grady Ave., Charlottesville, Va. (Va. Div. For.) 22903

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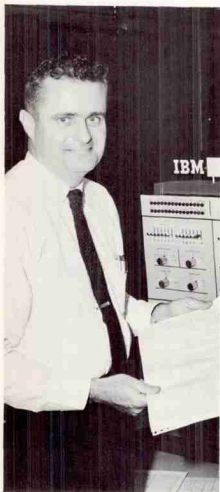
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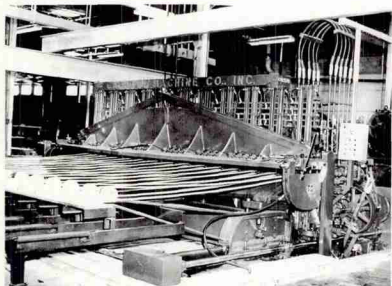
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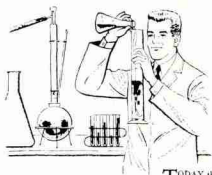
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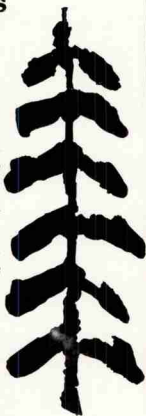
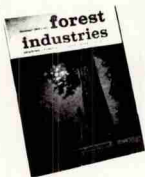
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