

JOURNAL
of the
SCHOOL OF FOREST RESOURCES
North Carolina State University
1969

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THE PINETUM

JOURNAL
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North Carolina State University
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1969

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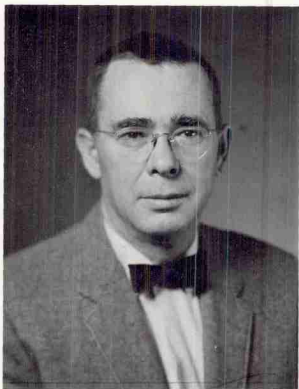
Charlie Nelson
Ass't. Editor

ACKNOWLEDGEMENT

To recognize each individual that contributed directly or indirectly to this issue of the *Pinetum* would be an impossible task.

The editors are especially grateful for the patience and assistance of Miss Clare Powell, Miss Judy Johnson, and Miss Yvonne Wright.

*Dedicated To
Dr. Ralph Clement Bryant*



. . . our grateful appreciation to Dr. Ralph Clement Bryant, dedicated teacher, counselor, friend, affectionately called "father" by his colleagues, and recognized by his students as one who is completely selfless. He has a genuine interest in all student activities, gives unceasingly of his time, knowledge, wisdom, and energy to enhance and broaden the student's college experience . . . to increase the excellence of the curriculum. His contagious enthusiasm sparks and stimulates the student's imagination, adding zest and meaning to our chosen profession. It is our hope that we shall ever be worthy of the vast investment of his life and time in us; that together we shall contribute to the advancement of the profession of forestry for the good of all mankind. . . .



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PROGRESS REPORT FOR 1968-69

By R. J. PRESTON, *Dean*

This has been a year of continued growth and progress for all segments of the School. We have attained our largest enrollment; employed our largest faculty and staff; have received our greatest financial aid from our Foundations; and are receiving unprecedented support from the industries and agencies we seek to serve. Employment opportunities for our graduates continue excellent, with starting salaries at record highs and with every indication of expanding future demands for our graduates. Our fine new forestry facility is under construction and should be completed within a year.

This also has been a year of substantial "inner" or quality progress. All curricula have been subject to intensive review, with student opinion playing a major role; a student council has been activated for improved communication and coordination; student and staff newsletters have been issued; many faculty members have received international recognition; new faculty with excellent and unique qualifications add strength to several areas; and a new resource-oriented recreation curriculum has been established.

STUDENTS

Enrollment last fall totaled 724, with 644 undergraduate students, 32 Master's candidates, 45 Ph.D. candidates, and 3 Postdoctorals. This placed the School among the larger schools in the nation.

We are proud of the responsibility and leadership evident in our student body. Student review and discussion of all curricula with faculty have been objective and most helpful. The activities of the School's Student Council have done much to coordinate the programs within the departments and their issue of the newsletter "Slabs and Edgings" was a major step in bettering communications within the student body.

FACULTY

Total faculty and staff number 116. This impressive total includes 46 research and teaching professors receiving their major compensation from the School, 11 professors in other schools with joint appointments in Forest Resources, 14 Extension professors, 27 staff members other than professors, 15 distinguished scientists aiding the School as Adjunct Professors, and 3 professors with retired status.

Only one member of the faculty resigned during the year, Dr. Yu Wen Hsu deciding to accept an industrial position.

Two members of the faculty changed their responsibilities during the year:

Mr. J. W. Johnson, formerly a member of the Tree Improvement team, switched to teaching to fill the temporarily vacant position of Dr. Duffield.

Mr. A. G. Mullin, transferred from the extension faculty to strengthen the teaching and research efforts to logging and operations research.

Seven new appointments were made to the resident faculty:

Mr. Jackson B. Jett Jr., Research Assistant in the Tree Improvement Program, succeeded Mr. J. W. Johnson.

Dr. Peder Kleppe, from Norway, as Research Associate in Wood Chemistry to direct a research project in pollution abatement under a grant from the Water Research Institute.

Mr. Louis W. Moncrief, Assistant Professor in Recreation Resources Administration, to work with Professor Hammon in developing the new curriculum in Natural Resources Recreation Management.

Mr. Ronald Pearson, now with the Australian Forest Products Laboratory and a visiting professor with us a year ago, has accepted appointment as Associate Professor of Wood Science and Technology to replace Dr. Hsu in the field of mechanics.

Dr. Bengt Ranby, Dean of the Royal Institute of Technology in Stockholm, Sweden, spent the fall semester with us as Visiting Professor in Polymer Chemistry.

Dr. Larry W. Tombaugh has been assigned by the Southeastern Forest Experiment Station as leader of their cooperative unit to the University, where he will have appointment as Assistant Professor in the Department of Recreation Resources Administration.

Four off-campus scientists have joined with us during the year as Adjunct Professors:

Dr. E. W. Clark, with the Forestry Sciences Laboratory in the Research Triangle, holds a joint appointment with the Department of Entomology and Forestry.

Mr. J. Harold Moses with the North Carolina Recreation Commission has his appointment with the Department of Recreation Resources Administration.

Mr. Edward H. Stone, Chief Landscape Architect, U. S. Forest Service also has appointment with the Department of Recreation Resources Administration.

Dr. Carol G. Wells, also with the Forest Sciences Laboratory holds a joint appointment with the Departments of Soils and Forestry.

Seven members of the faculty received promotions this year in recognition for their excellent contributions to the School. Dr. A. C. Barefoot, Dr. E. B. Cowling, and Professor R. C. Hitchings were promoted from Associate Professor to Professor; and Dr. B. E. Griessman, Professor Gordon Hammon, Professor L. H. Hobbs and Professor C. G. Landes were promoted from Assistant Professor to Associate Professor.

Four individuals spent the year with us as postdoctoral fellows:

Dr. Osman R. Byrne from the National University in Canberra, Australia worked with Dr. Saylor and Dr. Zobel in studies of Natural Populations and Hybrids.

Dr. Hou-min Chang, from Taiwan, China, worked with Dr. Brown in the field of lignin chemistry.

Dr. Akio Kobayashi, from Japan, worked with Dr. Brown and Dr. Stannett in chemical grafting studies.

Dr. Leon A. Pederick, from Australia, is working with Dr. Zobel in the area of Tree Improvement.

RECOGNITIONS, HONORS AND SPECIAL ACTIVITIES

Many of our faculty have received special awards or recognition during the year, including the following:

Dr. Fred Barkalow received the Governor's Award as Conservationist of the year, and at the same banquet, Dr. A. W. Cooper received the Governor's Award for research in natural resources and Dr. R. J. Preston for forestry.

Dr. R. C. Bryant served as Chairman of the Appalachian Section of the Society of American Foresters.

Professor Roy Carter was elected Vice President of the Society of Wood Science and Technology.

Dr. E. B. Cowling received the Sigma XI Award for excellence in research. Ellis also presented papers at International meetings in London, England and Aarhus, Denmark.

Dr. C. B. Davey, Dr. L. J. Metz, and Dr. T. E. Maki hosted the 3rd North American Forest Soils Conference.

Dr. J. W. Duffield is spending the year in Yugoslavia on a Fulbright Professorship.

Dr. E. L. Ellwood and Dr. A. J. Stamm were elected Fellows of the International Academy of Wood Science.

Professor T. I. Hines served as Director of the Revenue Sources Management School in Oglebay Park, West Virginia.

Professor W. E. Keppler is spending two months on a foreign assignment to Paraguay, helping them modernize their saw mill industry.

Dr. Gene Namkoong is spending the year in postdoctoral study at the University of Chicago.

Professor C. C. Stott received the Presidential Citation and concluded his term as President of the North Carolina Recreation and Park Society.

Dr. A. J. Stamm, Robertson Professor Emeritus, received the Distinguished Service Award from the Society of Wood Science and Technology, and the Anselme Payen Award from the American Chemical Society. He is spending the spring semester as Visiting Lecturer at the University of California.

Mr. Roger Warren is on leave doing graduate study at Indiana University.

Dr. B. J. Zobel received the Barrington Moore Research Award at the annual meeting of the Society of American Foresters, and spent one month in South Africa at the invitation of the pulp and paper industry.

SEMINARS

The School seminar program, under the direction of Dr. Perry provided many interesting and contemporary talks by members of the University faculty and distinguished outsiders. Among the off campus speakers who enriched our program this year were:

Mr. Randolph Worls—City of Wheeling, West Virginia Park Commission.
Subject: The Oglebay Park Story.

Mr. James Stephens—N. C. Recreation Resource Commission.
Subject: Changing attitudes of management regarding the development of recreation facilities on private lands.

Mr. Hou-Min Chang—Postdoctorate Fellow from Taiwan, China.
Subject: Species variation in wood lignins.

Mr. Kim von Wissenberg—Dept. of Silviculture, University of Helsinki, Finland—Rotary Club Scholar.
Subject: Forestry in Finland.

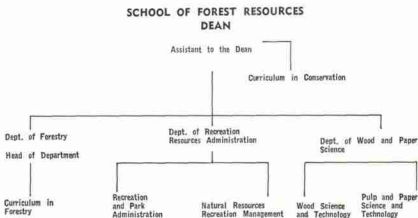
Dr. Bengt Ranby, Visiting Prof. in Polymer Chemistry, Royal Institute of Technology, Stockholm, Sweden.
Subject: Stereospecific polymerization: Ziegler-Natta catalysts, Li-alkyl catalysts, etc.

Dr. J. E. Stone—Pulp and Paper Research Institute of Canada.
Subject: The Supra-Fibrillar Structure of cellulose in the presence of water.

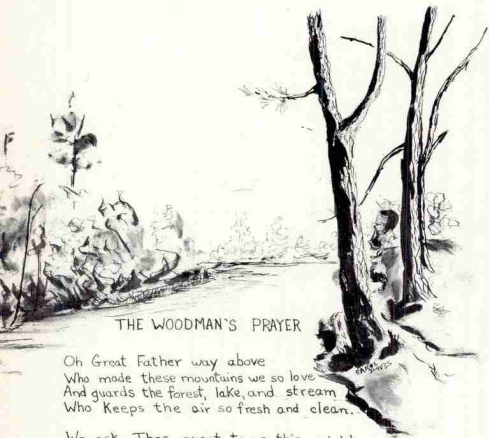
- Dr. George H. Hepting, U. S. Forest Service.
Subject: History of Forest Pathology in the United States.
- Dr. O. R. Byrne, Australian National University, Canberra, Australia.
Subject: A molecular approach to some aspects of Forest Biology.
- Dr. B. A. Richardson, Scientific Consultant, Eastleigh, England.
Subject: The treatment and preservation of wood with organotins and organoleads.
- Dr. Charles Olsen, University of Michigan.
Subject: Photogrammetry—Environmental Remote Sensing.
- Mr. J. P. McClure, Southeastern Forest Experiment Station, Asheville, N. C.
Subject: Forest survey methods and instruments.
- Dr. Walter Kauman, Assistant Chief of the Australian Forest Products Lab.
Subject: Research in forest products in Australia.
- Dr. J. W. Koenigs, Southeastern Forest Experiment Station, Research Triangle Park, N. C.
Subject: Cytochemical localization of dehydrogenases in plant cells.
- Dr. Karl Sax, Retired Professor of Harvard University.
A series of seminars in Genetics and Forestry.
- Dr. Bengt Ranby, Visiting Prof. in Polymer Chemistry, Royal Institute of Technology, Stockholm, Sweden.
Subject: Creativity and innovations: Some recent studies.
- Mr. C. K. Lyman, Chief of Personnel, U. S. Forest Service—Retired.
Subject: The young forester paying his way in an organization.

ADMINISTRATION

Rapid growth and development in the School has necessitated major administrative changes. The name of the School, all three of the Departments, and three curricula have been recently changed. Two new curricula have rounded out our programs in resource management. The new organizational plan of the School is shown in the following chart:



(Continued on page 157)



THE WOODMAN'S PRAYER

Oh Great Father way above
Who made these mountains we so love
And guards the forest, lake, and stream
Who Keeps the air so fresh and clean.

We ask Thee grant to us this night
That when in dawn's own tender light
We rise enthralled at all we see
That it may always this way be.

AMEN

From song by STAN JONES



DR. T. EWALD MAKI
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THE WORLD OF FORESTRY IN 1968-1969

The primary function of the Department of Forestry today continues to be the teaching of the arts and science of efficient use of forest land resources, and the research that helps to build a sound foundation for the practices and operations of land management. Forty years ago when I first became seriously involved in the profession of forestry, these tasks were, or seemed, much simpler. What we may have lacked in well-defined goals then, were compensated at least in part by the crusading zeal and spirit with which we were imbued. The stirring words of that great pragmatist, Gifford Pinchot, enunciated over thirty years earlier, were still ringing loud and clear in our ears: "The rightful use and purpose of our natural resources is to make all people strong and well, able and wise, well taught, well fed, well clothed, well housed, full of knowledge and initiative, with equal opportunity for all . . .". We got the message. How could we miss.

In our zeal, we were not bashful about expressing concern for waning timber supplies and the quality of residual growing stock; for unwise stripping and subsequent cultivation or over-grazing of watershed lands of high erosion potential; for the need to start doing some advanced thinking about how much forest and wood man really needed to live well; and in general, for the quality of our environment. Often, no doubt, we overstated the case for forestry. At least, we earned such epithets as "tocsin ringers", white-horse riders", and the like, and at best we failed to make many converts or to get the word *forestry*, incorporated into the working vocabulary of the people in its full context. The great mass of political, sociologic, and economic thinking continued to equate progress only with land clearing and to relegate forestry, if anywhere at all, to the "useless" parcels of land where the hoe struck too many rocks or the sand piled too high or the plow turned somersaults. Thus it was that in the Lake States, for example, the U. S. Department of Agriculture decades ago found time to concern itself in such research as "clover farming on jack pine sands" when it would have already made a heap more sense if it had started on a



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(on leave)

meaningful scale to study jack pine farming on jack pine sands. (The agrarian mentality still hinders men from making completely objective evaluation of land-use systems.)

That is the way it was when I started a career in forestry. Have we made any progress in the intervening decades? In technical knowledge and in the technology of both forest production and utilization we have made immense progress, far beyond anything we had reason to expect in the twenties or even at the beginning of the Great Depression. But forestry is still not a household word,—at least not in the connotation we would like it to be. (As a household word, Spiro Agnew has beat us to it). We need only to glance at the papers or listen to orations to realize that we have work to do—in education—beyond our profession.

Just to cite a few examples. In a recent column Drew Pearson suggested the revival of the Civilian Conservation Corps as one remedy for getting teenagers off the streets “to work in national or state parks, or rural areas where they can drain swamps, build dams, . . . learn new skills . . .”. Not one word about forests. Not one inkling of a suggestion that the youngsters might also work in forests to improve wood production or the quality of the forest environment. Yet Pearson was writing his column on paper made from wood.

Some years ago the immensely sophisticated and cultured editors of TIME, in a pointless rebuttal to Vogt's “Road to Survival”, among other remarks made the following statement: “Chinese farmers make the most of the plains and valley bottoms but only in a few parts of the country do they farm the hillsides. They grow grass and brush which are desperately needed for fuel (sic!)” It obviously did not occur to the editors of TIME that trees make more satisfactory fuel than does brush. Or is it possible that the learned editors do not know the difference between brush and trees?

In a more recent article on conservation, the same learned, cultured, sophisticated editors of TIME recognized that material shortages would hamper the attainment of our national objectives of some twenty-six million new units of housing. They stated in part that "The ever-growing building industry must have lumber; conservationists cherish forests. Here also the outcome is a compromise . . . the Government allows selective lumbering (sic!), the lumber companies replant trees." Continuing their discussions on conservation problems and resource limitations, they foresaw that "Ultimately the solution must come from science and technology. . . . Science is developing acceptable substitutes for wood." One of the remarkable revelations about the cultured editors of TIME (and don't forget that they are also immensely learned and sophisticated) was that not once in column after column of their exposition on conservation did they mention the word "forestry", or that most of the paper and paper



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products today still comes from wood that grows in forests. Not only grows and grows and grows, but at some point of marketable maturity the trees are harvested, and on managed land a new forest is regenerated.

As one more of many available examples, some time ago I was assisting a graduate student on a special problem of tree growth-site quality interrelationships. It happened that one suitable sampling spot was at a point along the entrance road to Umstead Park, within sight of any passers-by who might chance to be driving into the park. We weren't hurtin' anybody, —just measurin' some sample trees. A park official happened to come by before we had completed taking the measurements, and inquired what it was that we were doing; we revealed to him without hesitation the nature of our project. He was not convinced that our task was important enough to jeopardize the reputation and image of the park, and he politely but firmly asked us to pack up and do our sampling elsewhere in the park, out

of sight, because "people might get the wrong idea". There I stood amazed with D-tape in my hand, and a Suunto clinometer on my belt, as it dawned on me that two-thirds of the way through the 20th century there were still people—civilized, cultured, learned, sophisticated—who might regard forestry research as a nefarious subversive, sinister activity.

Brother foresters, we have work to do—in education, that is. We need within and outside the university community to seek development of a better understanding of what forestry is and what it can do; specifically to make men see that it involves a great deal more than sitting in fire towers, or planting trees, or putting up little posters of Smoky Bear, with or without his silly ol' hat.

We hear that they are not making any more land,—at least not in any significant amounts, except perhaps in a few places like the delta of the Tigris and Euphrates. Our land resources, thus, are limited, and we see pressures mounting for their use. Vast numbers of people with their newly-acquired consciousness of the environment and its quality are looking zealously in the direction of forests. In the main, their ideas about conservation are different from ours. They view forests as static systems to be preserved as is for themselves and for posterity. Most of them, we hope, have already learned to accept the need for reducing fields of waving, golden grain to an expanse of stubble once every year, but they cannot tolerate the thought of harvesting trees. Somehow they have not yet learned to visualize that the products of the forest with which they come in daily contact are the result of an enterprise no less dynamic, and in the long run perhaps not more destructive, than the harvest of a wheat or corn field and the subsequent making of bread or pone. We can admit to them that some phases of silviculture are ugly,—but they don't stay ugly for long, and the sight of a thrifty, new forest springing up in the wake of harvest of the old stands should help to reduce the severity of any anguish, pain, and trauma experienced during the felling process.

From an opposite pole our limited forest land resources are also under constant scrutiny, but from masses of people with a different objective and an opposite purpose. In the agrarian view land clearing is still, more often than not, considered as synonymous with progress. The farmer tends to get restless in looking at forest, and doesn't need much encouragement to put forest land to some "higher use", be it row crop or pasture, or something else, just so it isn't trees. In many parts of the world where forests once formed the dominant natural vegetation, the farmer has plied his mattock and hoe so vigorously, and the grazer has loosed his goat herds so indiscriminately on the landscape that neither any longer has enough wood left to make new straight handles for his tools, nor swingletrees for his cart. In these situations we know that, in the future, life could be better, the environment more attractive, and the hoe handles straighter if there were a sensible allocation of a plot of ground, however limited in scope, to the production of wood. But who will liberate the soil tiller and the herdsman from the stultifying influence of the agrarian mentality that has enslaved them so long, and lead them toward a new day when decisions about land use will be made with deeper understanding and greater balance than has ever occurred in the past seven thousand years. The Ministries of Agriculture? The Sierra Club? The Neo-Malthusians? If we are condemned

to wait on these and related segments of our leadership, we should not be surprised to see future deterioration in the quality of environment and even of living.

So 1969 still finds forestry couched in parentheses. We who have been at it for several decades have always believed that only in terms of human use is forestry meaningful, but somehow we have failed to communicate this central purpose to the man who plows, or grazes his animals on the hillsides, and walks the streets and pulls the lever in the voting booth. You who have elected the profession of forestry as your career are faced within an exciting opportunity to improve man's place in Nature. We are confident you can succeed where we may have failed. You have the vision, the energy, and those qualities of heart and mind that will help forestry emerge from the parenthetic position it still holds in the established scheme of things. Good luck and Godspeed in the hard tasks of forest conservation that you will tackle soon.



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Robert W. Allison receives Freshman Axe Award.



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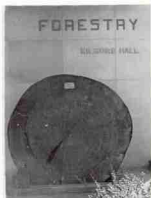
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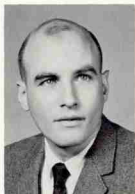


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WOOD SCIENCE AND TECHNOLOGY 1968-69

DR. ERIC L. ELLWOOD (*Professor and Head, Dept. of Wood and Paper Science*) Dip. For(A) Creswick, Australia
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During the year, the Department of Wood Science and Technology was renamed the Department of Wood and Paper Science and the two curricula therein were renamed, i) Pulp and Paper Science and Technology, and ii) Wood Science and Technology. These changes characterize the continual changing nature of programs being offered. More emphasis is being placed upon a sound grounding in the underlying sciences and analytical methodology and less emphasis on descriptive aspects of current technology. These changes are reflected not so much in new courses as in the changing content of existing courses. Further progress was also made in developing participative type problem solving courses (particularly FOR 423 and FOR 435). In these courses the student's previous study background is brought to bear upon problem solving situations similar to those he will encounter upon graduation. Also exposure to computer technology (in course FOR 482) was provided within the School offerings. The senior student problem (FOR 492) was revamped to enable junior students to spend a portion of their spring semester in developing approaches to information retrieval, problem definition and planning. The students will then carry out the actual research on the problem during the fall semester of their senior year. Changes were also made in the required wood chemistry course (FOR 522) to emphasize fundamentals of wood chemistry. The reasons for this are based primarily on the premise that with technology changing rapidly, and technical obsolescence being a critical factor, it is more important to establish sound base for future self-education of students. It is patently obvious that no one can learn all they need to know in a four year program, to carry them through the rest of their career. Leaders in the industrial arena are characterized by their high rate of innovation in product, process, and/or marketing development. Perhaps the key role of the professional wood scientist and technologist is the furthering of sound innovation, and his thinking should be more attuned to the future than the past. Continuing education of the professional man throughout his career, will increasingly become the norm as our science and technology enlarges at an ever increasing rate. Every graduate should look for

opportunities, wherever he may be situated, to take advantage of keeping his knowledge and attitude contemporary and viable by selected reading and taking courses applicable to his field of interest. He should also maintain associations with professional societies in his field.

During the year there were several faculty changes. Dr. Y. Hsu, who taught the wood design course (FOR 441) resigned to take a position with an industrial firm. A search is currently being made to fill his position with an experienced wood engineer. Professor Emeritus A. J. Stamm, who is still active in the School, in a research capacity, left to spend 6 months as Visiting Professor at the University of California, Forest Products Laboratory. The wood chemistry courses are now taught by Dr. K. P.



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



Kringstad and Dr. W. Brown. New additions to the faculty were Dr. P. J. Kleppe whose responsibility is to head up teaching and research in the field of wood industry pollution abatement (primarily in pulp and paper), and Mr. A. G. Mullin who transferred from the wood products extension group to become an instructor (jointly with the Department of Forestry) in the field of management.

Dialogue was also strengthened between students in the FPRS Student Chapter and faculty on matters relating to courses and the curriculum. All professors in the Department appreciate feedback from students in their courses.

In the field of research some 20 projects were pursued during the year in wood science and technology mostly with the considerable involvement of graduate students. These ranged from further studies on maximizing

yield or minimizing costs in the cut-up of lumber for furniture manufacture, development of a mathematical model to minimize costs in the purchase of lumber by the furniture industry, studies on the durability of exterior coatings for wood, a new plasma technique to examine coating-wood interfaces, studies on moisture movement through wood, high temperature drying of wood, the anatomy of wood in relation to its permeability to fluids, gluing studies on southern pine plywood, the relationship between structure and properties of wood, the strength and shrinkage of the juvenile wood of southern pine, low cost wood housing studies, the study of irradiated wood-plastic composites, several comprehensive studies on aspects of the chemistry of wood and lignin, and a large investigation on the effect of wood fiber properties on paper quality jointly with the pulp and paper program.

According to the statistics published by the Society of American Foresters, the N. C. State University program ranked second among U.S. universities in the number of baccalaureate degrees granted during the year and equal to first in the number of graduate degrees granted.

Industry demands for wood scientists and technologists remain high with starting salaries increasing approximately 5 percent per year in recent years. There is still a shortage, particularly of baccalaureate wood technologists, and the major demand is for men to enter the production field with wood-based manufacturers and in the field of technical service in the employ of suppliers to the wood industries.



DR. A. C. BAREFOOT, JR.
Associate Professor of Wood
Technology
B.S., M.W.T., North Carolina
State University; D.F., Duke
University

DR. VIVIAN T. STANNETT
Professor of Chemical Engi-
neering and Wood Science
and Technology
B.S., London Polytechnic
Institute; Ph.D., Polytechnic
Institute of Brooklyn

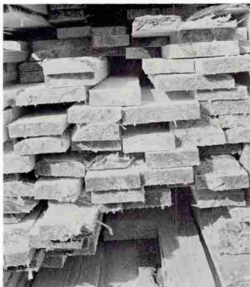




DR. C. A. HART
Research Associate Professor
of Wood Technology
B.S., Virginia Polytechnic
Institute; M.S., Ph.D., North
Carolina State University



ROBERT C. GILMORE
Assistant Professor of Wood
Science and Superintendent,
Wood Products Lab
B.S., Pennsylvania State
University; M.S., North Car-
olina State University





ROBERT G. HITCHINGS
In Charge—Pulp and Paper
Curriculum, Associate Pro-
fessor of Pulp and Paper
Technology
B.S., State University of
New York, College of For-
estry; M.F., Duke University

THE PULP AND PAPER SCIENCE AND TECHNOLOGY CURRICULUM

1968-69

By R. G. HITCHINGS

The 1968-69 semester started with the sound of earth movers outside the Robertson Pulp and Paper Laboratory as the construction for the new Forestry Building started. Occasionally lectures are interrupted by the thud of sledge hammers and whine of concrete mixing trucks, but we are pleased to have the new building and the third floor of Robertson underway. It appears that the lack of skilled construction workers may carry the completion date beyond the scheduled date of February, 1970.

The start of the new semester also witnessed the largest enrollment in the pulp and paper science and technology curriculum since its beginning of 135 students. Twenty-one seniors will complete their studies this June with many companies vying for their services along with Uncle Sam. It appears that starting salaries for June graduates will again rise 5% over their '67-'68 level. Due to the high starting salaries, several companies have indicated that the new graduates are being selected with long range potential in mind and will be given greater responsibilities earlier in their service with the company.

During August, Dr. Peder Kleppe joined the staff as a Research Associate with responsibilities in the field of water effluent problems of pulp and paper industry. He is currently offering an elective course to the seniors in this area and has two graduate students working in this field. Formerly employed by West Virginia Pulp and Paper Co., he has published several papers in the area of kraft and modified kraft pulping.

We were fortunate to have Dr. Bengt Ranby with us during the first six months of the semester as a Visiting Professor. Dr. Ranby was most helpful in introducing Nuclear Magnetic Resonance (NMR) techniques to studies in cellulose and wood chemistry as well as presenting a lecture series based on innovation in scientific investigations. He has returned to The Royal Institute of Technology, Stockholm, Sweden, where he is Professor of Polymer Technology.

Dr. A. J. Stamm left Raleigh, during December, to spend 6 months at the University of California-Berkeley as Visiting Professor and at Richmond, California. He writes that he has met several old friends and is preparing a series of lectures on wood-moisture relationships.

In November, the Fourteenth Meeting of the Pulp and Paper Foundation was held and the directors approved a record budget of \$96,750. A feature of the meeting was a joint industry-student discussion on "High-School Student Recruitment." The consensus indicated the effectiveness of personal contact in attracting outstanding high school students to pursue careers in the paper industry. The enthusiasm and interest of recent graduates has been particularly effective in communicating the attractiveness of the paper industry as a career opportunity. At the meeting, it was also noted that the Executive Committee has approved the increase to \$1100 per year for the maximum value scholarship to out-of-state students in the pulp and paper curriculum.

RAY SMITH
Associate Director, Place-
ment Center and Executive
Secretary of the Pulp and
Paper Foundation
B.S., North Carolina State
University



DR. WYN BROWN
Associate Professor of Wood
Chemistry
B.S., University of London,
England; Ph.D., University
of Uppsala, Sweden

CHESTER G. LANDES
Assistant Professor of Pulp
and Paper Technology
B.S., Ohio State University





DR. KNUT P. KRINGSTAD
Associate Professor of Wood
Science and Technology
B.S., Technical University
of Darmstadt; M.S., Ph.D.,
Institute of Cellulose Chemis-
try, University of Darm-
stadt

DR. P. J. KLEPPE
Associate Professor of Wood
and Paper Science
Bergen Kathedralskole; M.S.,
Ph.D., Technical University
of Darmstadt.



DR. HOU-MIN CHANG
Post Doc. Fellow
Ph.D., Univ. Wash.

CHARLES N. ROGERS
Associate Professor in Pulp
and Paper Technology
B.S., N. C. State University





THOMAS I. HINES
Head of Department and
Professor of Recreation Re-
sources Administration
B.S., North Carolina State
Univ.; M.A., University of
North Carolina at Chapel
Hill

RECREATION RESOURCES ADMINISTRATION

By THOMAS I. HINES

When one looks back upon the 1968-1969 academic year, there will appear many individual milestones indicating wholesome growth: increase in student enrollment, addition of new courses, the approval of the curriculum in Natural Resources Recreation Management, the beginning of a significant program in recreation research, the continuation of in-service education for practicing recreators, the expansion of the summer internship program, the addition of a new faculty member, and greater faculty participation in professional conferences and workshops.

Now if we take these milestones one at a time, even with brevity each of these indicate growth. To illustrate, the total enrollment in the recreation curriculum during the 1968-1969 year is more than 250 students, a growth of 25 percent—which is more significant since the RRA department prior to its affiliation with the School of Forest Resources had the second largest enrollment of recreation majors in the United States. Approximately fifteen percent of these students made the "Dean's List" academically, and on the opposite end of the totem pole—less than four percent failed to return because of grades.

Final word was received in December which indicated the approval of the Natural Resources Recreation Management curriculum. Effective date for this new curriculum is September, 1969. However, it is believed that the graduation class of 1970 will have among its members several candidates for a degree. The present count indicates more than thirty students enrolled in this new major. Incidentally, six of these students are working towards a double major in RPA and NRRM. Two new courses, required in the NRRM curriculum, were taught for the first time with a total enrollment of approximately seventy students.

January first marked not only the beginning of a new calendar year; it was the arrival date for Mr. Lewis Moncrief, a new assistant professor. Mr. Moncrief is scheduled to receive his doctorate from Michigan State University in August of this year. He came to us highly recommended by faculty members from Texas Technological College and Michigan State University. During this Spring semester, he is devoting his time to research, teaching two courses, and advising approximately forty freshmen. His field of study is centered towards the recreation use of natural resources.

Through the efforts of Mr. Gordon Hammon, associate professor, a research grant of approximately \$90,000 has been obtained to study the recreation capacity of lakes, ponds, rivers, etc. A team of scientists directed by Mr. Hammon will begin the study this summer. It is intended that the study will extend to the coastal waters of North Carolina.

Again this year, three institutes serve as a source of in-service training for practicing recreators. The first of these, Southeastern Recreation and Park Training Institute, is attractive to delegates from federal and state agencies and municipal parks and recreation departments. These representatives come from thirteen southern states. Another, the Revenue Sources Management School, will be attended by approximately 200 recreators from more than thirty states. The school is conducted at Oglebay Park, Wheeling, West Virginia, one of the most outstanding municipal regional parks in the United States. In June, through use of Title One funds of the Higher Education Act, a one-day institute will be conducted in three sites in North Carolina for recreation commissioners, city managers, mayors, and county officials at the policy-making levels; these institutes will be the first of its kind in North Carolina.

Fifty-seven students are scheduled to begin their nine-week internship this next summer. Arrangements are being made in twenty-seven locations representing industries, municipalities, private agencies, national parks, tourism, institutions, and county governments. Some of the locations will be Oglebay Park, Wheeling, West Virginia; Nashville, Tennessee; Halifax County, Virginia; Shenandoah National Park; Virginia Beach, Virginia; Hounds Ear, Boone, North Carolina; Springs Manufacturing Co., Lancaster, South Carolina; Beacon Manufacturing Co., Swannanoa, North Carolina; Atlanta, Georgia. Some of the municipalities in North Carolina will be: Kinston, Wilson, Durham, Greensboro, Salisbury, Asheville, and others. The internship is a controlled educational program of a variety of managerial experiences. A minimum of forty hours each week for nine weeks is required of each student just prior to his senior year of study.

The Department of Recreation Resources Administration was represented at many of the significant conferences of a regional or national scope. Some of these were the National Recreation and Park Congress in Seattle, Washington; National Education Forum, Washington, D. C.; Standards for Recreation Facilities, Kansas City, Missouri; N. C. Recreation and Park Society Annual Conference, Greensboro; Little League Congress, Detroit, Michigan; and the Southern Recreation and Park Conference, Jackson, Fla.

Rho Phi Alpha, the honor recreation fraternity, is composed of the top scholars in both curricula. Due to changes in curricula, it was necessary for this group to revise their by-laws. Much of the time of the members has been spent in the development of long-range plans for the fraternity.



MR. L. W. MORCRIEF
L. W. MORCRIEF
B.S., Texas Technological
College; M.S., Michigan
State

L. L. MILLER
Associate Professor of Rec-
reation Resources Admini-
stration
B.S., Wake Forest College;
M.A., University of North
Carolina, Chapel Hill



Expansion of the fraternity to other universities has been evident by a inquiry from Clemson University. Membership in the fraternity for the year will be approximately thirty students—the largest ever.

Before the year is out, ground work will be underway to develop a major's club. It is anticipated that this new organization will play an important role in student affairs.

Graduates have been able to be selective in their employment. The Department of Recreation Resources is respected throughout the nation primarily because of the success of its graduates. Fortunately, an abundance of placement opportunities are existing for RRA graduates throughout the United States. Salaries last year averaged approximately \$7200 per year with the range from \$6000 to \$92000. The higher paying positions are in states other than North Carolina.

One other trend that has become significant is the enrollment of more than thirty women "majors". A good sign, approved by the men!

The managerial theory imbedded in the recreation curricula is beginning to pay off. Greater appreciation of recreation and park values by the student, practitioner, and faculty member has been developed. It is indicated that other universities throughout the nation are tending to adapt the philosophy of North Carolina State University to their own situations. Our goal is to maintain a superb undergraduate program upon which we hope to build a graduate program as the peak of professional education pyramid.



DR. ROBERT E. STERNLOFF
Assistant Professor of Recreation Resources Administration
B.S., M.S., University of Illinois; Ph.D., University of Wisconsin

M. ROGER WARREN, JR.
Instructor of Recreation Resources Administration
B.S., Wake Forest College; M.A., West Virginia University

(On leave)



GORDON A. HAMMON
Assistant Professor of Forest Recreation
B.S., New York State University of Forestry, Syracuse

CHARLES C. STOTT
Associate Professor of Recreation Resources Administration
B.S., North Carolina State University; M.S., Indiana University





EXTENSION FORESTRY

BY WALTER M. KELLER

The Extension Forestry program, a part of the Agricultural Extension Service, includes rural-farm, rural-nonfarm, urban, and industrial groups among its clientele. Major emphasis is placed on continuing education, and this past year 39 short courses, workshops, or seminars attended by 2,279 persons were conducted in the fields of wood products and forest management. In addition, 95 shorter demonstrations or tours were held, with 4200 people participating. The Extension Forestry group also prepared 10 new bulletins, presented 51 television shows and 19 radio programs, and distributed over 15,000 forestry publications.

Our only personnel change took place in September, 1968, when Sandy Mullin switched over from Extension to full-time teaching and research in the School of Forest Resources. Sandy remains right here in the same building, however; so we do not feel that we have completely lost him. To carry on Sandy's extension work, we have hired Jim Hedgecock, a recent M.S. graduate from North Carolina State's Wood Science and Technology program. As a graduate student, Jim had been working very closely with Mullin and was familiar with our extension wood products program and thus was able to move into our extension program with no disruption to ongoing programs.

The extension program is working at capacity, but some important needs still remain unsatisfied. Considerably greater input is needed with both the furniture industry and the pulp and paper industry. Recreation is presenting a real opportunity and challenge. A large segment of North Carolina's gross economy is generated from natural outdoor recreation resources. Extension recognizes outdoor recreation as an area offering opportunities for further developing the State's environmental and human resources. The forestry group has made an effort to fill, on a stop-gap basis, extension's educational obligation in this area. Individuals, public agencies, community organizations and large corporations have requested and received assistance in developing forest environment recreation facilities. There are, however, no committed personnel with primary responsibility to conduct a specific program in recreation in the Extension Service. There is a real opportunity here to provide a needed and valuable service to North Carolina.



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



E. M. Jones, J. C. Jones
Forestry Extension



Messrs. Hedgecock, Huxter, and Fields



W. E. Keppler
Head, Wood Products
Extension

Wayne Haines
Forestry Extension



L. H. Hobbs
Wood Products
Extension

Stephen Hanover
Wood Products
Extension





Mr. Leonard Hampton
Leonard Hampton
Extension



Dr. B. E. Greissman



Leon A. Pederick
Research Associate
Univ. Melbourne, Australia



Larry Jervis
B.S., N.C.S.U.
School Forest
Manager

STAFF



Miss Hazel Adams
Bookkeeping—Dean
(Retired)



Mrs. Carolyn Ariail
Secretary—Dr. Zobel



Miss Angeline Brantley
Sec.—Wood Prod. Ext.



Miss Cicely Browne
Lab. Tech.—Dr. Zobel



Mrs. Margaret Burchette
Bookkeeping—Dean



Mrs. Carol Jarman
Lab. Tech.—Dr. Zobel



Mrs. Elga Filton
Lab. Tech.—Dr. Perry



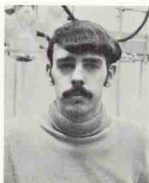
Mrs. Lanora Goss
Lab. Tech.—Dr. Zobel



Mrs. Alice Hatcher
Lab. Tech.—Dr. Zobel



Mrs. Martha Holland
Secretary—Dr. Zobel



Danny Isom



Mrs. Dorothy Honeycutt
Sec.—Pulp & Paper



Miss Teresa Jernigan
Secretary—R.R.A.



Miss Judy Johnson
Sec.—Wood & Paper Sci.



Mrs. Frances Liles
Student Records—Dean



Mrs. DiAnn Mason
Secretary—RRA



Mrs. Martha Matthias
Lab. Tech.—Dr. Zobel



Miss Clare Powell
Secretary—Forestry



Miss Nancy Roberts
Sec.—Wood & Paper Science



Miss Edith Rose
Secretary—Dean & Asst. Dean



Mrs. Inez Tucker
Sec.—Forest Mgmt. Ext.



Miss Patsy Varner
Lab. Tech.—Dr. Brown



Mrs. Elizabeth Wilson
Lab. Tech.—Dr. Barefoot



Miss Yvonne Wright
Secretary—Forestry



W. R. (Mac) McLaurin
Res. Asst.—Hodges Lab



Everett Morgan
Maintenance Supt.—Hodges Lab



Tyson Dublin
Genetics Gardener



SCHOOL OF FOREST RESOURCES

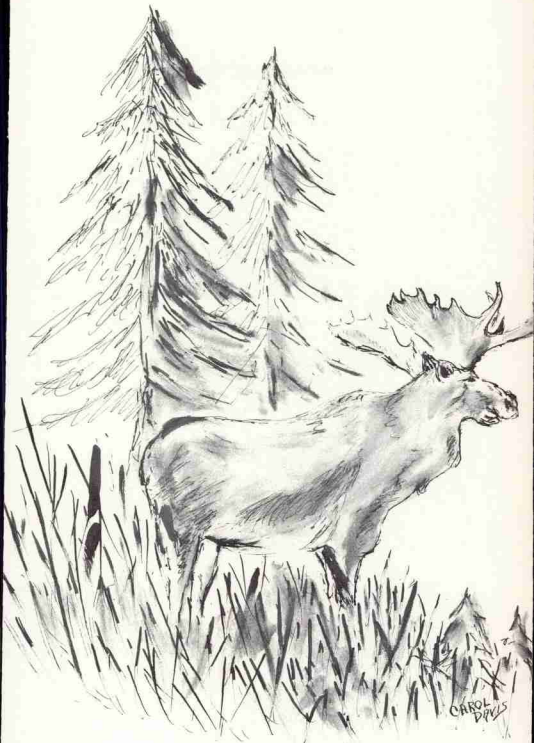
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Dr. W. D. Miller
1907 Victoria Rd.
Mrs. Thelma Slocum
3210 Arthur Ct.
Mrs. Josephine Wyman
1837 White Oak Rd.



SENIORS—FORESTRY



GEORGE GARLAND ALSTON—Littleton, North Carolina

Forestry

Forestry Club, Intramural Sports

Soil scientist and silviculturalist for Albemarle, George demonstrated his driving prowess at summer camp with the "dirty 17".



LARRY WAYNE BLACK—Concord, North Carolina

Forest Biology—Honors Program

Xi Sigma Pi—Forester; Alpha Zeta—Scholarship chairman; Forestry Council—Secretary; Blue Key; Editor "Slabs & Edgings"; Lutheran Student Association—Vice President; AFROTC—Scholarship, Drill Team Captain, AF Association Award, Best Drilled Cadet Award.

Bus driver for the "clean 37", Larry is a quiet but hard working student. He will be flying high with Uncle Sam for the next few years.



**LAWRENCE JAMES BLOOMER—Pittsburgh,
Pennsylvania**

Forestry

S.A.F., Forestry Club, Dean's List

Larry is an expert on forest soils and if you don't believe it, just ask him. How do you use that auger, Larry?



ERNEST HERBERT BRYAN—Newport, North Carolina

Forestry, Wildlife and Conservation

Forestry Club, Leopold Club, Owen Residence Council

Rusty is glad to graduate after an extended stay.



HOWARD EVERETT CANNELL—Beverly, Massachusetts

Forestry

Howie was the only yankee to carry cold grit sandwiches in 406. A Paul Smiths' boy who came South to learn some real forestry.



TIMOTHY JOHN COFFIN—Newark, Delaware

Forestry—Wildlife

Wildlife Club, Varsity Soccer; Secretary & Treasurer Owen Hall; Floor Assistant Owen Hall; Forestry Club, Secretary

Taxiodendron radicans prone. The tenor of the Senior class.



ROBERT MONROE COLLETTE—Winston-Salem, North Carolina

Forestry—Business Operations

Forestry Club, Secretary, President; Conclave; Rolleo; Forestry Council

Bob joined the ranks of the married men last fall. Pretty long honeymoon wasn't it, Bob? Bob has proven to be a very able President for the Forestry Club.



MILTON VAUGHN CORN—Lexington, North Carolina

Forestry—Watershed

Alpha Zeta; President, BSU; Forestry Club

It's a shame Micky missed so many piano lessons because of management lab. Good luck with his sideburns!



PHILIP HAROLD DAVIS—Greensboro, North Carolina
Forestry

Forestry Club, Xi Sigma Pi, *Pinetum* photographer
Phil speaks softly and carries a big computer program. Phil is quite apt at the Potter's wheel.



STEPHEN DOUGLAS DIANIS—Bardstown, Kentucky
Forestry

"Flower power #2." A two-semester surveyor, Steve couldn't get enough of Shuler.



CRAIG BENNETT DITMAN—Catonsville, Maryland
Forestry

Forestry Club; Xi Sigma Pi

Is his new bride the reason for his class tardiness?



DONALD BALDWIN ELDER—High Point, North Carolina
Forestry

Coprophyllic cranium. The worm has turned. Famous for his "war stories"?!?!



TERENCE A. FITZSIMONS—Chapel Hill, North Carolina
Forestry—Biometry
Dean's List; Varsity Soccer
Fitz is going to Darlington this summer in his VW!



WILLIAM ESMOND FLOWERS—Darlington, South Carolina
Forestry—Business & Watershed
Member of Shuler's chosen few, Bill is a sleeper with the grades. One of the leftovers from the CCC.



DAVIS MONROE GERWIG—White Hall, Maryland
Forestry—Watershed
Xi Sigma Pi—Ranger; Alpha Zeta; Forestry Club—Treasurer; Phi Kappa Phi; Homelite Award; SAF; Undergraduate Research
Father's right-hand man, we all wish we had his average.



EDMOND J. GOFORTH, JR.—Marshall, North Carolina
Forestry
Forestry Club—Secretary; Xi Sigma Pi; Dean's List
A top-notch caller at Camp Schuab.



CLIFFORD DENNIS GRAHAM—Vineland, New Jersey

Forestry—Watershed

Tau Kappa Epsilon; IDC; V. P. Sullivan Hall;
Forestry Club; ROTC

Has a management plan for the DMZ!



THOMAS WADE HARDISON—New Bern, North
Carolina

Forestry

Tom's a real gas. A boy that knows his trees.



JOHN DAVID HARPER—Raleigh, North Carolina

Forestry—Biometry

Forestry Club—Secretary; Alpha Zeta; Xi Sigma
Pi; Floor Counselor

Consultant forester for the senior class. John gets
plenty of practice as a snowball target.



WILLIAM JOSEPH HARRELL—Seaboard, North Carolina

Forestry—Wildlife & Conservation

Forestry Club; Dean's list

Willie smiles his way through thick and thin.



BOYCE LANDRETH HARVEY—Walnut Cove, North Carolina

Forestry—Soil Science

Forestry Club, Intramural sports, Dean's list

One of the FRB's, Boyce always has his lotion handy.



WAYNE ADELB HAUSKNECHT—Athens, Pennsylvania

Forestry

Forestry Club; Conclave; Organizing resident hall judicial boards

Hey, Wayne, can you remember *anything* about Clemson?



STEPHEN WORSLEY HAYES—Raleigh, North Carolina

Forestry

A master of discussion!!!



CARL WAYNE HOUSTON—Clearwater, Florida

Forestry

Do you have to marry the departmental secretary to graduate? "Get it rolling, old man."



DANIEL EVERET HUFFMAN—*Jacksonville, North Carolina*

Forestry—Wildlife

Forestry Club

"Young Daniel" is finally getting out!



DONALD RUSS JEFFERSON—*Raleigh, North Carolina*

Forestry

Forestry Club; Arnold Air Society; Scabbard and Blade; AFROTC

Don is in Air Force ROTC, but we think he'll only fly on Saturday night.



CHARLES B. KENLEY, JR.—*Gastonia, North Carolina*

Forestry—Business Operations

Delta Sigma Phi

Charlie thrives on RC Colas and Moon Pies. His wardrobe includes gant's and khakis.



PAUL JONES KIKER, III—*Wadesboro, North Carolina*

Forestry

Has your blind bird dog hit any trees or pointed any pallets lately?



NELSON PRENTISS LILES, JR.—Laurinburg, North Carolina

Forestry

S.G. Senator; SAF; Forestry Club; Conclave; Rolleo; Forestry Council; Intramurals; Lee Hall Council;

L-I-L-E-S, Pete can always be heard above everyone else. What is sidedressing and topdressing?



EDWIN ANDREW LISTERMAN—Fort Thomas, Kentucky

Forestry—Watershed

Phi Kappa Phi; Xi Sigma Pi—Secretary; Fiscal Agent; Alpha Zeta; Forestry Club

"Please, gentlemen, we have to bore 720 trees."



NORMAN B. McCULLOCH, JR.—Elizabethtown, North Carolina

Forestry—Business Operations

Bruce is a boy who got smart and transferred from Whiskey Hill.



RALPH SEAGREN MALANEY—Cincinnati, Ohio

Forestry

Forestry Club

Grrr!! . . . "Gol darn, soap is expensive."



DANIEL F. McINNIS, JR.—Raeford, North Carolina

Forestry—Recreation

Danny is the only guy in our class who has calibrated 10X glasses.



LAWRENCE DRAKE MONROE—Louisville, Kentucky

Forestry—Watershed

Forestry Club—Program Chairman

Larry manages to get a full day's sleep and still take notes.



ROBERT JOEL MOONEY—Raeford, North Carolina

Forestry

Forestry Club

"Mistah Mooney, I'll bet you one thin dime. . . .!!!"



ANDREW KOINER NICHOLAS—Asheville, North
Carolina

Forestry—Biology

Xi Sigma Pi; Phi Kappa Phi; Forestry Club

Flower power #1. Andy is too, too much.



WILLIAM R. NORTON—Danville, Virginia

Forestry—Biology

Xi Sigma π

A "dropout" from student camp.



WILLIAM OLIVER O'KELLY—Candler, North Carolina

Forestry—

AUSA, Forestry Club

The mountaineer. Have you been running moonshine in your Ford?



CHARLES RAYMOND POPE—Haddonfield, New Jersey

Forestry—Business Operations

Pi Kappa Alpha; Photographer 1968 *Pinetum*

The most popular guy in the senior class. Future production manager of a grit factory.



BRIAN JOHN RAYCHER—Murfreesboro, Tennessee

Forestry—Biology

Forestry Club; Intramural sports; Xi Sigma Pi

"A Joe" "What is Acetate"? Another FRB, but a hard worker.



WALTER GHORMLEY ROBERTS—Morganton, North Carolina

Forestry
Tau Kappa Epsilon

Just don't get Walt started on hunting and fishing.



RONNIE MIKE ROCK—Lexington, North Carolina

Wildlife Biology

Spends more time with a pool cue than with the books.



WILLIAM CALVIN RODGERS—Canton, North Carolina

Forestry—Watershed

SAF; Forestry Club—Vice Pres., President; Rolleo; Conclave; Forestry Council; *Pinetum*, Asst. Editor, Editor, 1969.

'Ol "boob" arm wasn't an FRB—he was just RCB's boy wonder!



JAMES F. SAIN, III—Salisbury, North Carolina

Forestry—Wildlife

Dean's List

"Forest Service all the way."



EUGENE PERLEY SCHMIDT—New City, New York
Forestry
Forestry Club; Lutheran Student Association
Sounds like he hated to leave "Smitty's!"



JOHN GORDON SHEPHERD—Sanford, North Carolina
Forestry
Forestry Club
John has been around long enough to know all the tricks, except 531!!!!



RICHARD LYDA STARNES—Hendersonville, North Carolina
Forestry—Watershed
Dick tends to be "facetious." Recommended elective CE 201.



JAMES DAVID STARR—Maiden, North Carolina
Forestry—Watershed
Forestry Club, Vice-President.
"Bart" will go for as long as his trail bike holds out.



THOMAS JOSEPH STEINKE—Woodcliff Lake, New Jersey
Forestry

The right front seat in 159 is dedicated to him.



BRUCE MICHAEL STEVENS—Loris, South Carolina
Forestry—Business Operations

"JR" used to run the S. C. express; now it's home to the missus!!



RICHARD TRAVIS THOMAS—High Point, North Carolina
Forestry—Wildlife

"Dufus" says Ellis wants an ice cream cone!



CARSON D. THOMPSON, III—Troy, North Carolina
Forestry—Wildlife

Freshman baseball

One of "Grannie's" most faithful!



CHARLES DAVID WHALEY—Garner, North Carolina

Forestry—Wildlife

Alpha Gamma Rho; Union Committee; IFC;
Reporter

Harper's consulting assistant.



THOMAS JOHN DREW—Perth, Western Australia

Forestry

A bloody hard working "Aussie."



RICHARD LYNN FOLK—Rome, New York

Forestry—Conservation

Forestry Club, Tucker Hall Treasurer,

IRC Budgetary Committee,

Intramurals—Football and Softball



WAYNE DAVIS

SENIORS—RECREATION RESOURCES ADMINISTRATION



MICHAEL ALFORD—East Point, Georgia

Municipal Recreation

Football Team

Captain of Raleigh's own wrecking crew, Slobber Drool's ability to acquire nick names was only surpassed by his ability to inhale beverages.



LOUIS EMIL BIEGA—Aliquippa, Pennsylvania

Industrial Recreation

Football Team

Lou has to be one of the brightest RRA students, because the Dr. was always calling on him for the right answers. Marriage is in his future, some where.



THOMAS ALLISON BURNS—Riegelwood, North Carolina

Park Administration

Golf Team

Hugh is one of the chosen few; a truly individual sense of humor. A fine golfer, he had a superior knowledge of goats.



DENNIS WAYNE BYRD—Lincolnton, North Carolina

Recreation Administration

Football Team—All conference—All American

Big Dennis came back to us from a season with the Boston Patriots for another try at LAR 211. With the size of his sense of humor won't nothing stand in his path to the top.



OLIVER LACKEY BYRD (Porky)—Brevard, North Carolina

Municipal Recreation

Tennis Team

When asked if he was going to be a professional tennis bum, Porky said, "I'll take that under consideration."



DENNIS WAYNE CHADWICK—Straits, North Carolina
Park Administration

Dennis is a sand-lapper's sand-lapper, who needs a job in the mountains to teach him how to walk a straight line.



CHARLES FRANCIS COMBS—Hertford, North Carolina

Municipal Recreation

Baseball Team

Francis is definitely one of the class clowns, and always good for a few laughs on a bus trip.



JEAN FAYE COOKE—Raleigh, North Carolina

Municipal Recreation

Rho Phi Alpha; Golden Chain; College 4-H; Angel Flight; College Union Dance Committee Chairman; Baptist Student Union—Social Chairman; Fencing Team—Captain; Woman's Association—Vice President

Busy, busy, busy; and now she is going to leave the "good guys" to become a P.E. teacher.



RICHARD WAYNE COOK—Boonville, North Carolina
Park Administration

If you don't watch out Wayne will keep you in stitches, but be careful where he puts them.



WILLIAM BLAIR CRAIG—Columbia, South Carolina
Institutional Recreation

Air Force ROTC; Fellowship of Christian Athletes;
Football Team

Bill's four years at State were marked by many bruises from Dennis Byrd, but his sense of humor somehow hid the pain of practice.



CHARLES HUBERT DEBNAM, JR.—Knightdale, North Carolina

Park Administration

Golf Team; Monogram Club; Rho Phi Alpha

The "Sandman Award" for 1968-69 goes to Charles.
The only place he does not sleep is on the golf course.



WILLIAM LOUIS FLOURNOY, JR.—Raleigh, North Carolina

Park Administration

Rho Phi Alpha—President; Forestry Council—Vice President; Pinetum—Associate Editor; University Social Functions Committee; Union All-Campus Weekend Committee

Bill will go a long way; if he can ever afford to buy a new car, and doctors find a cure for acute lateitus.



HENRY WADE FOX—Charlotte, North Carolina

Park Administration

Rho Phi Alpha—Secretary; Freshman Baseball

Henry is a man who believes in trees and little furry things; he is trying to convert everyone to the preservationist viewpoint.



MARSHA DALE FRALICH—Raleigh, North Carolina

Institutional Recreation

Union Gallery Committee; Sociology Club; Fencing Team; Sigma Kappa Sorority-1st Vice President

Marsha once said she was "dumb," but she double-majored in Rec & Soc and is now in grad school so she cannot be "dumb;" but then on the other hand.



CRAIG ALLEN FREAS—Raleigh, North Carolina

Municipal Recreation

Track Team

Craig was not happy with being part of one institution; he has now been accepted in a second—marriage.



DONALD LEE GROFF—Reidsville, North Carolina

Municipal Recreation

Rho Phi Alpha

Groff is a serious student if you can keep him away from McSwain; if you can't, be ready for a lot of laughs.



CHARLES JAY GRUBBS, JR.—Winston-Salem, North Carolina

Park Administration

Chuck invented the "sob story," and considered complaining part of a good job. He married a pretty hometown girl and acquired Navy Blues.



JAMES BURGESS HALLSEY—Graham, North Carolina

Park Administration

Rho Phi Alpha, YMCA—Freshman Camp Director

Jim is looking forward to graduation so he can take life easy, with only one job to hold down.



LEE ROY HAMILTON, II—Ohley, West Virginia

Industrial Recreation

Football Team

A West Virginia hillbilly, who fell in love with North Carolina. He came, he saw, he finessed.



LARRY BIRCHEL HANCOCK—Seagrove, North Carolina

Park Administration

Student Government—Secretary, Reading Clerk, Senator; Chancellors Liason Committee; Farm House Fraternity; Cross-Country & Track Teams; ROTC—Sons of the American Revolution Award, Scabbard & Blade Society; Pershing Rifles; Association of United States Army (AUSA); School Drill Team & Color Guard—Commander

What more can one say; Larry has to be a success.



ROBERT LeGRAND HARVIN—Woodland, North Carolina

Institutional Recreation

Rho Phi Alpha—Historian

Being a door-to-door salesman has sharpened Bob's wit and ability with a deck of cards.



RICHARD DAN HEGLER—Lexington, North Carolina

Municipal Recreation

A transfer student, Richard spends most of his time off-campus—at work.



AVERY COLLINS HOLDER—Cary, North Carolina

Municipal Recreation

If "Rusty" ever decides which option he is in, he is bound to be a success.



DOUGLAS NEWTON JONES—New Bern, North Carolina

Industrial Recreation

Mu Beta Psi; N.C.S.U. Band—Marching Band, Fan Fare Band; Union Representative to the ACU—I Region 5 Tournament, Bowling.

"Buzard" has a lot on the ball, if he can just stay out of the gutter.



ELIZABETH A. G. KIESENHOFER (Betty)—Raleigh,
North Carolina

Institutional Recreation
Rho Phi Alpha—past Vice President
Betty marked up a first for RRA; its not everyone who can hold a "B" average and have a baby at the same time.



JACK WILLIAM KLEBE—Cornwell Heights,
Pennsylvania

Municipal Recreation
Football Team
The "Beaver" from Pennsylvania will long be remembered after he heads back to Yankee land. He will be a proud papa in the early summer.



ANTHONY GEORGE LAWS—Hillsborough, North
Carolina

Municipal Recreation
Rho Phi Alpha
If you want something done, look for Tony. If you want to enjoy yourself, look for a group of his friends; what a wild bunch.



LAWRENCE EARL LEHNING—Raleigh, North Carolina

Park Administration
Rho Phi Alpha
Larry is usually pretty quiet, but when he opens his mouth, look out its either going to be funny or worth listening to.



WILLIAM ROGER LEMMONS—Burlington, North Carolina

Park Administration

Rho Phi Alpha

Never has one individual received so much pleasure from destroying so many grade curves.



DOUGLAS DONALD LONGHINI—Wyoming, New York

Park Administration

Rho Phi Alpha; Senior Forestry Senator; Pi Kappa Phi

The "Pabst Blue Ribbon" goes to Doug who knows how to recreate.



JOHN RHODIE (Jay) McDUFFIE—East Point, Georgia

Physical Education

Football Team

Mama played football until a back injury slowed him down; now he is planning to get married in the spring.



CLYDE ZENO McSWAIN—Salisbury, North Carolina

Municipal Recreation

Rho Phi Alpha—Vice President; Xi Sigma Pi; Resident House Council; Resident Athletic Director; College 4-H

The humidity in Nashville, Tenn. had Butch "panting" while he was doing his internship. All things considered, he should go a long way in Recreation.



STEVEN TYLER MARTIN, Danbury, North Carolina

Municipal Recreation

Rho Phi Alpha; Baseball Team

Steve would like nothing better than to get a swing at the pro-leagues.



CAREY GREGORY METTS, III—Greensboro, North Carolina

Physical Education

Football Team; Kappa Alpha

The papa of the football team, he also has an adorable baby at home. He is a very likeable individual, who would like to take a crack at pro-ball.



DWIGHT HILTON PERDUE—Louisburg, North Carolina

Municipal Recreation

Varsity Men's Glee Club; NROTC

Dwight is from a small town, but he has big ideas. For now he has settled down to family life and the prospect of big Navy money.



JOHN EDWIN PERRY, JR.—Saratoga, North Carolina

Municipal Recreation

Jack is best known on campus for his nervous freshman stutter, but he does not let it slow him down. He is always up to something.



BENNY RAY POTEAT—Marion, North Carolina

Park Administration

Another of the class clowns, Benny is at his best with friends in a mug.



JOHN MACON ROWLAND—Raleigh, North Carolina

Industrial Recreation

Baseball Team

John plays a pretty good game of ball. He gets along well with the ladies and Mr. Miller, too.



GEORGE BLAND (Buzz---)SAWYER—Vanceboro, North Carolina

Municipal Recreation

Buzz is a character with a fine sense of humor. He may even graduate if he can figure out what therapeutic means.



JOSEPH MICHAEL SERDICH—Fairmont, West Virginia

Institutional Recreation

Basketball Team

Joe's claim to fame is two-fold. He was a terror on the B-ball court, and a terror in the Reserve Room.



REBECCA ANN SOUTHERLAND—Durham, North
Carolina

Municipal Recreation

Rho Phi Alpha

Ann came out of the business world to pick up a degree in Rec., and she has made many a friend along the way.



WALLCE C. STEPP—Hickory, North Carolina

Industrial Recreation

Mr. Stepp is the gentleman everyone sees in class. He has blonde hair and the knowledge to be the right man for the job.



JESSE THOMAS STEWART—Erwin, North Carolina

Park Administration

Tom will be glad to graduate so he can get married and stop working at three jobs.



JOHN PHILLIP STOGNER—Greensboro, North Carolina

Park Administration

Phil has a lot going for him whether he is putting around the apartment or on the course. Just ask Dennis.



CHARLES ROBERT TOPE—Aiken, South Carolina

Industrial Recreation

Football Team

Charley has made an impression on the University which could only be surpassed by Norm Cates.



NIKOLA TRIFUNOVIC—East Chicago, Indiana

Municipal Recreation

Basketball Team

Nick isn't half as dumb as he puts on to be; it's just easier to snow Profs. that way.



ARTHUR FRANK WALESKI—Bassett, Virginia

Park Administration

Football Team

Art's only problem at State was trying to answer Dr. Sternloff's questions before Lou. Says his favorite course was LAR 211.



RONALD FRANK WATKINS—Black Mountain, North Carolina

Industrial Recreation

Football Team; Freshman Baseball Team; Fellowship of Christian Athletes; Phi Kappa Tau

Ron found much more action off of the field than on. Quite a dresser, he plans to be a secret service agent.



CHARLES HENRY WILSON—Garner, North Carolina
Municipal Recreation

Even working as much as Charley does, he still finds time for recreating. He does both well.

SENIORS—PULP AND PAPER TECHNOLOGY



WILLIAM CARY ADAMS—Macon, Georgia

Pulp and Paper Technology

Fourdrinier Society, United Campus Christian Fellowship, Bragaw House Council, Big Brother Program, Pulp and Paper Foundation Scholarship.

No one remembers seeing Cary in class without his Coke and Nabs. He's getting married in June so he had better get used to them now.



WILLIAM DANIEL ARMSTRONG—Halifax, North Carolina

Pulp and Paper Technology

Fourdrinier Society

Dan used to spend all his time at the gym playing basketball. Now reading letters from and writing letters to his girl friend seem to take all Dan's spare time.



CORNELIUS ALAN BINKLEY—Wilmington, North Carolina

Pulp and Paper Technology

Neil couldn't decide whether to accept a job in industry or continue shooting pool as he did this year. Rapid shade matching and instant fiber identification are his specialties.



GEORGE RONALD BROWN—Savannah, Georgia

Pulp and Paper Technology

Fourdrinier Society—President, Program Chairman, PINETUM Business Manager, Bragaw Residence Hall Secretary, Alpha Zeta, Xi Sigma Pi, Forestry Council, Bragaw House Council, Phi Kappa Phi, Phi Eta Sigma, Pulp and Paper Foundation Scholarship.

Quiet, dependable, a leader in the class, Ronnie will make a fine catch for some company. We just hope it isn't the Navy.



SAMUEL KIRKBRIDE COLLIER—Haddon Heights, New Jersey

Pulp and Paper Technology

Tau Kappa Epsilon, Interfraternity Football, Volleyball, Tennis, and Softball, Fourdrinier Society, Pulp and Paper Foundation Scholarship.

An excellent student even though he is from Jersey. Sam, liked by everyone, has good-naturedly taken a lot of ribbing from his southern classmates.



JERRY BOYD COX—Elizabeth City, North Carolina

Pulp and Paper Technology

Tau Kappa Epsilon.

We all have hopes that Jerry will be on time for Professor Rogers' class at least once this semester. Although Jerry isn't sure where he's going next year, we believe Uncle Sam has some idea.



WATSON BOYD DeVANE—Elizabethtown, North Carolina

Pulp and Paper Technology

Fourdrinier Society

We hear Boyd is going to personally thank all his classmates for aiding and abetting him making his graduation possible. "Thanks for the poop, boys."

CHARLES SHERER GARDNER, JR.—Plymouth, North Carolina

Pulp and Paper Technology

Fourdrinier Society—Vice President 1967-68

One of the most notorious goof-offs of all PPT grads, Charles is always available when anyone wants to take a break. One of the best procrastinators around, Charlie has two years of work to do in his final semester.



KENNETH HAROLD HAYES—Palatka, Florida

Pulp and Paper Technology

We hear Hudson has big plans for the old man of our class in top management. But having to give up the easy college life and start working again is the price Ken will pay upon graduation.



RAYMOND RILEY HAYNIE—Ft. Lauderdale, Florida

Pulp and Paper Technology

Pulp and Paper Foundation Scholarship, Crown Zellerbach Award, National Science Foundation Undergraduate Research Grant, Phi Kappa Phi, Xi Sigma Pi—Associate Forester, Fourdrinier Society—Program Chairman.

It looks like Ray, the most traveled member in the senior class, will be buying the keg of beer this year. Well liked by both students and faculty, Ray is considered the brains of the class.



DAVID EDWARD HERTZ—Stillwater, New York

Pulp and Paper Technology

Fourdrinier Society

Another Yankee, Dave turned a one-day mill visit into a one-week vacation in Maine. Liked by everyone, this proud papa should go far in the paper industry.

JOSEPH TERRELL LEWIS—Hemingway, South Carolina

Pulp and Paper Technology—Chemical Engineering
Fourdrinier Society, Pulp and Paper Foundation
Scholarship

Whenever there's a question to be answered, Joe's always the man to see. Concerning his future plans, Joe is undecided as to whether to continue his education or go to work, but we suspect he would rather hunt and fish.



ENOS BENTON LIVERMAN—Plymouth, North Carolina

Pulp and Paper Technology

Tau Kappa Epsilon, Intramural sports.

Everyone knows Ben has shaven before attending his eight o'clock class, but no one can remember just when. We figure that after getting married and going to work in Plymouth, the only thing Ben will have to look forward to is the draft.



ROBERT IVAN MITCHELL—Columbia, South Carolina

Pulp and Paper Technology

Fourdrinier Society—Coordinator

Known for his after-class discussions with instructors, Bob has actively engaged in all night poop sessions. Active in the Fourdrinier Society, Bob is a friend of all.



NELFORD SHANNON NICHOLS II—Hopewell, Virginia

Pulp and Paper Technology

Dean's List, Alpha Phi Omega, Army ROTC, Drum and Bugle Corps, Fourdrinier Society—Treasurer, Secretary, Freshman Week Band, Disciples Student Fellowship—President, Vice-president, United Campus Christian Fellowship.

His many girl friends and outside activities keep Shannon well occupied most of the time. Shannon is known for his resourcefulness, originality, and desire to help others.



MARK DAVID PASK—Ridgewood, New Jersey

Pulp and Paper Technology

Forestry Club, Intramural Basketball.

One of the harder workers in the class, Mark's quiet manner and good nature make him a very likeable fellow.



JONATHAN WAYNE SHELFER—Jacksonville, Florida

Pulp and Paper Technology—Chemical Engineering

Phi Kappa Phi, Phi Eta Sigma, Pulp and Paper Foundation Scholarship.

Without Bob's help, we doubt Jon could have made it through his papermaking lab. Being an outstanding student, Jon has decided to continue his education by pursuing a degree in Chemical Engineering next year at State.



HENRY PHILIP SLAGLE—Sylva, North Carolina

Pulp and Paper Technology

Fourdrinier Society

A red-headed mountaineer famous for parching peanuts in wood chemistry lab, there's no doubt in anyone's mind that Phil will head to the mountains upon graduation.



JAMES RICHARD SMALL—Roper, North Carolina

Pulp and Paper Technology

Fourdrinier Society—Treasurer, Secretary.

No one could figure out whether Richard's cowboy hat was a 2, 5, or 10 gallon size. Although Richard says he's not ready for marriage, he makes regular trips to Plymouth for medical attention from a certain R.N.



JOSEPH SCOTT SPRUILL—Williamston, North Carolina

Pulp and Paper Technology

A true "Ronnie-Run-Home," Joe has established an all-time record for weekends spent away from Raleigh. A favorite of Professor Rogers since he is always either late or absent for his Monday morning class.



CHARLES GASTON WALL, JR.—Rome, Georgia

Pulp and Paper Technology

Sigma Nu—Chaplain, Pledgemaster.

Charlie spent so much time in coloring lab that many thought he had dyed. Although it is not known for sure, it is believed that his baldness may be the result of his engagement or difficulty in obtaining a deferment.



MITCHELL EUGENE WHITTINGTON—Camden,
Arkansas

Pulp and Paper Technology

Fourdrinier Society, Dean's List

Mitchell has come a long way from "Hog Country" to "Cow College," but it seems to have paid off. From what we hear he is able to name his own salary.

SENIORS—WOOD SCIENCE AND TECHNOLOGY



DENNIS ALLEN AMMONS—Waynesville, North Carolina
Wood Technology

Alpha Zeta—Chronicle, Xi Sigma Pi, Forestry Council—President, F.P.R.S.—Secretary 3, Vice President 4, Scabbard and Blade, Blue Key, Association of the U. S. Army, 1st Lt., Advanced Army R.O.T.C., ASFC Conclave 2, Bragaw House Council 2, 3

Demp, the boy with the brownest nose. Roy's boy, Foot's boy, Red's boy, Bill's boy, Steensen's boy, Eric's boy, Dick's boy, Sandy's boy, Hsu's boy, and Bobo's Boy. (Nuff said)



DONNIE RAY BLAIR—Thomasville, North Carolina
Wood Technology

F.P.R.S., Sigma Chi

D. B.—one of the original Shuttle Inn crew. His lab partners checked up short (like Roy) when responsibility was delegated him by the upper management in wood chem. lab.



THOMAS EDWARD BROCK, JR.—Cedartown, Georgia
Wood Technology

F.P.R.S.—Corresponding Secretary, Freshman Football and Basketball

Jabby dreams of revolutionizing the cabinet industry. However, we feel sorry for his employer since everything Jabby is told will "remind him of a story he once heard."



DONALD ALAN DOZIER—Baldwin, New York
Wood Technology

Forestry Club, F.P.R.S.

Don is a true yank. We at least give him credit for knowing where to come to get his education. We hope Don will do well with his Canadian sawmill he dreams of.



NICKY LANE FOUST—Lexington, North Carolina

Wood Technology

FPRS, Alpha Gamma Rho

As our budding young microtome technologist, Nick should have a brilliant career in Room 62 working under the "Foot!"



BARNABAS G. MARTONFFY—Santiago, Chile

Wood Technology

Student theater group, Latin Club

He goes thru new cars like some of us go thru pencils.



LEON MASON—Washington, North Carolina

Wood Technology

ROTC, Varsity Football

The prodigal jock has returned. Leon will be remembered for the time John Ayers' cat thought Leon's bed was for sale and left a deposit on it.



ARTHUR G. RAYMOND, JR.—Raleigh, North Carolina

Wood Technology

Sigma Nu, IFC Representative, Phi Kappa Phi, Xi Sigma Pi, Senior Ring Committee, Student Government Senator, Academic Affairs Committee, FPRS
—Treasurer

Art is Roy's Boy who always gets the "A" under S. R. Art should do well with Ed if his duties as Grand Dragon do not take up all his time.



ROGER GREER TAYLOR—High Point, North Carolina
Wood Technology

Here is to our one perpetual student whom we may not see much more since he has transferred to Duke. Roger will be best remembered for his immortal words, "Money is on the outside of wood, not on the inside." (Oh do do)



GRADUATE STUDENTS

FORESTRY	STATE	DEGREE
Adams, Wesley Thomas	Calif.	MR
Allison, Dale Kennedy	N. C.	MR
Argow, Keith A.	Oregon	DR
Barker, James Albert	Fla.	DR
Beck, Donald Edward	N. C.	DR
Chapman, David Devaney	Va.	MR
Cole, Donald Eugene	W. Va.	DR
Faber, Joop Adrian	N. C.	DR
Glass, George Graham, Jr.	N. C.	MR
Jervis, Laurens Gifford	N. C.	MR
Johnson, John William	N. C.	DR
Kitzmiller, J. H., Jr.	N. C.	DR
Kundt, John Fred	W. Va.	DR
Land, Samuel B.	Va.	DR
Lantz, Clark Whitney	Va.	DR
Lloyd, Frank Thomas	Conn.	DR
Mallonee, Edward II, Jr.	N. C.	MR
Moore, Allen Burnell	N. C.	MR
Murawski, John Stefan	N. C.	DR
Paquin, John Richard	N. Y.	DR
Pepper, William Donald	Va.	MR
Phillips, Douglas Ray	Ala.	DR
Plotkin, Henry Sidney	N. C.	MR
Porterfield, Richard L.	N. C.	DR
Quijada, Marcelino	N. C.	MR
Rennie, John Charles	Venezuela	DR
Robinson, William M.	Ohio	DR
Rockwood, Donald Lee	N. C.	MR
Sarker, Noor Muhammad	Ill.	DR
Switchart, Somkuan	E. Pakistan	MR
Talhelm, Daniel R.	Thailand	MR
Usanis, Richard A.	N. C.	DR
Weber, Andrew John	Conn.	DR
Webster, Steve R.	N. C.	MR
Weir, Robert John	N. C.	DR
Weessmer, Ronald A.	Vt.	DR
	W. Va.	MR
WOOD AND PAPER SCIENCE		
Adams, Donald Gene	La.	DR
Broughton, Roy M.	N. C.	DR
Cheng, Cheng Wu	Taiwan	DR
Darwin, William N.	Mia.	DR
Eckert, Robert Cornell	N. C.	MR
Gladstone, William T.	N. Y.	DR
Holder, Charles D.	N. C.	DR
Honeycutt, Curtis W.	N. C.	MR
Kelly, Myron W.	N. Y.	DR
Lin, Stephen Y.	N. Y.	DR
McNamara, William S.	Taiwan	DR
Mera, Fernando E.	Mass.	DR
Myers, Thomas W.	Peru	MR
Novelo, Gonzalo	N. C.	MR
Parham, Russell A.	N. C.	MR
Parker, Homer Vann, III	N. C.	MR
Salehuddin, Abul	E. Pakistan	DR
Taylor, Ray Stanley	N. C.	MR
Wendorf, Robert A., III	Calif.	MR
Wheeler, Frederick J.	Ill.	MR
Zicherman, Joseph B.	N. C.	MR
Zukowski, David E.	Pa.	MR
SOILS		
Danielson, R. M.	Wash.	DR
STATISTICS		
Parish, Robert	N. C.	DR

PATHOLOGY

Ambureey, T. L.
 Bond, John J.
 Doane, Howard J.
 Fakir, G. A.
 Gardner, J. H. B.
 Kurkela
 Miller, Thomas
 Reis, Mauro Silva
 Weissenberg, K. J.

N. J. DR
 Ky. DR
 N. Y. DR
 E. Pakistan DR
 Tenn. UN
 Finland UN
 N. C. DR
 Brazil DR
 Finland POST-DR

ZOOLOGY

Cordes, Carroll
 Kyles, Alan
 Raybon, Walker
 Rogers, John

Texas DR
 N. C. MR
 N. C. MR
 N. Y. DR

ENTOMOLOGY

Hunt, Thomas

N. C. MR

ECOLOGY

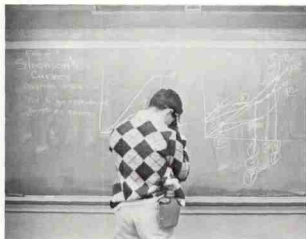
Gibbon, Edward L.
 Nemeth, John C.
 Wheeler, G. Laurin
 Willis, William D.
 Worley, Nancy L. (Miss)

Va. DR
 N. C. DR
 Fla. DR
 N. C. MR
 Tenn. MR

GENETICS

Smouse, Peter E.

Calif. DR



SCHOLARSHIPS AND AWARDS

PULP & PAPER FOUNDATION SCHOLARSHIP

Adams, Dan Allen	Ivie, Walker Lawrence, III
Adams, William Cary	Jackson, Larry Henderson
Adkins, Charles Edward	James, Robert Deal, Jr.
Allen, Ronald Clark	Jones, Elliott Wright
Allison, Robert William	Kelly, Barry Thomas
Armstrong, Robert Lynn	Lewis, Joseph Terrell
Barton, Joseph Glenn	McFee, Wayne Allen
Brenton, Michael John	Martin, Marcus L.
Brown, George Ronald	Marvin, Anthony Wolfe
Burns, James Dale	Mattox, Clifford Bennett
Carpenter, James Michael	Mosley, Charles Samuel
Coker, Jerry Furman	Mozingo, Gary Charles
Collier, Samuel K.	Nall, Jimmy R.
Cothern, William Hodges	Ousley, Robert Waddell
Curfman, James M.	Parson, Tony Eugene
Dykes, Clarence Allen	Rabb, Thomas Calvin
Flanary, Gale Kay	Raley, Ronald B.
Fowler, David Earl	Ripley, Edward
Gardner, Charles S., Jr.	Roberts, Roger Lyman
Griffin, Larry G.	Shelfer, Jonathan Wayne
Griffin, Larry Kenneth	Shirley, Randall Delron
Haney, Roger Dale	Snellings, William R., Jr.
Harley, Benjamin Robert	Suggs, Waldon Christopher
Harrison, Ray Edward	Swindell, John David
Haynie, Raymond Riley	Tamsberg, Joseph Lane, Jr.
Hazelwood, Carroll Thomas	Taylor, William Randall
Hickerson, Gary Douglas	Wade, William Hamilton
Holmes, Charles Eugene	Walter, Daniel Wayne
Horne, Larry Edward	Whichard, Philip Ray
Hudgins, William Steven	Whittington, Mitchell E.
Hunter, Daniel McKieve	Wortman, Buren Lamar

HOMELITE SCHOLARSHIP

Gerwig, Davis Monroe

UNIVERSITY SCHOLARSHIP

Aiken, Arthur Samuel	Gerwig, Davis Monroe
Almond, Walter Fraser	Goforth, Edmond J., Jr.
Anderson, John Richard, Jr.	Groff, Donald Lee
Bryson, William Truman	Long, Samuel Comer
Callahan, Raymond N.	Parker, David Furman
Close, Kenneth Donald	Reed, Lewis Oliver, Jr.
Cooke, Jean Faye	Shirlen, James Daniel
Crum, George Scruggs	Wellmaker, Gary L.
Gerringer, Edward McIver	

CHOWAN VENEER MILL

Webb, Josiah Anthony

JOHN GROVER MEMORIAL SCHOLARSHIP

McArthur, Michael John

RICHMOND NEWSPAPERS, INC. SCHOLARSHIP

Hoard, James Stephen

Y. MEN'S ALEXANDER SCHOLARSHIP FUND

Austin, Ronald L.

CHARLES H. STONE SCHOLARSHIP

Clark, Burwell Edward

ATHLETIC AWARDS

Alford, Michael
 Anheuser, Lee Richard
 Bethel, Arthur Craig
 Beiga, Louis Emil
 Bradley, Donald H.
 Bradsher, Johnny R.
 Braucher, Richard A.
 Burgess, Peter A.
 Byrd, Oliver Lackey
 Combs, Charles Francis
 Coyle, James Jude
 Davenport, Gary E.
 Dellinger, Richard P.
 Diacont, Stephen C.
 Foley, Timothy H.
 Hamilton, Lee Roy
 Klebe, Jack W.
 Leftwitch, Edward
 Lewis, Robert Wayne
 Loftin, Jerry Stewart

McDuffie, John Rhodie
 Metts, Carey G.
 Moser, Gary Odell
 Nicholas, Edward J.
 Punch, Dennis Loy
 Rosar, David
 Schwall, Eric Eugene
 Serdich, Joseph Michael, Jr.
 Siegfried, Winston T., II
 Smith, George Lewis
 Solonoski, Andrew S., Jr.
 Tope, Charles Robert
 Trifunovic, Dragoljub
 Trifunovic, Nickola
 Waleski, Arthur Frank
 Watkins, Ronald Frank
 Whitley, Eugene F.
 Williams, Gregory H.
 Williams, William A.
 Yount, Gary Edwin

FRENCH BROAD RIVER GARDEN CLUB

Benning, Thomas Fleetwood Haynes, Claude B., Jr.

ARTHUR K. & SYLVIA S. LEE SCHOLARSHIP

Bell, Doley S., Jr.

LEA LUMBER & PLYWOOD CORP.

Baker, John Calvin, Jr.

CONTINENTAL CAN COMPANY SCHOLARSHIP

Harper, John D. Norton, William R., III Shankle, George D.

CHAMPION PAPER FOUNDATION

Ammons, Dennis Allen

CHILEAN NITRATE SCHOLARSHIP

Hancock, Larry B.

GENE HICKS FUND SCHOLARSHIP

Hoard, James Stephen

GARDEN CLUB OF NORTH CAROLINA INC. AWARD

Sharpe, Danny Dale

CONGER WORK SCHOLARSHIP

Ball, Robert F.
 Hardison, Thomas Wade
 Townsend, John Edward

BILTMORE WORK SCHOLARSHIP

Crum, George Scruggs Houston, Carl Wayne
 Goforth, Edmond J., Jr. Smith, David Leigh

WINN-DIXIE SCHOLARSHIP

Embler, Paul Conley, Jr.

N. C. FOREST SERVICE REPORT

By RALPH C. WINKWORTH, *State Forester*

The past year has been a busy but interesting period for the North Carolina Forest Service. Hopefully, some of the new activities begun this year will become full scale program expansions in July. After almost two years of tedious program planning, we are now heavily engaged in the final step of obtaining legislative authorization and support.

The most exciting activity has been the development of our proposed new Forestation Program. This involves custom forestry services to private landowners who lack the facilities to carry out the forest management recommendations of our Service Foresters. As a start, two drum choppers and a tractor-mounted mist blower were purchased in August for rental to private contractors. The demand was as expected and by late fall we purchased two more choppers from rental receipts. During the winter, we concentrated on custom right-of-way burning for the railroads to reduce the number of railroad forest fires. This, too, was a success. The expansion program before the legislature calls for a state-wide organization of Forest Service custom forestry crews. Private contractors will still be given preference where available but much more needs to be done. The proposed annual goal for complete treatment, including site preparation, prescribed burning, planting, and timberstand improvement, is now forty thousand acres per year with planned expansion from receipts. The program has sound support. The question appears to be the extent to which an initial organization can be funded and consequently how fast we can move at this time.

Closely allied to our Forestation Program is our emphasis on hardwood regeneration. This appears to be a relatively easy silvicultural task on stands that are well stocked with mature trees of desirable species. But on the highgraded, burned, and grazed stands which are all too common among the small ownerships, particularly in the West, the problem is far from simple. Successful hardwood plantations are rare and the answers to satisfactory artificial stands are not in sight. In fact, we are threatened with the embarrassing possibility of having superior hardwood seedlings available before we know how to plant them. To bridge this gap and to facilitate the design of meaningful future research studies, we have begun a program of establishing hardwood planting observation plots. Some one hundred of these small plantations will be established this year, employing as many variables in nursery and planting technique as possible. The program will be repeated annually until its purpose is accomplished. While not intended as research studies, the plots will be laid out and recorded in such a way that they may be adopted for research purposes later if they warrant scientific investigation.

As a tangible step in our broad program to improve mountain forestry, we have acquired a beautiful four hundred and seventy-five acre tract of land in Avery County for the development of our Linville River Forestry Facility. Work so far has been limited to planning the layout and construction of future improvements, constructing a rough road system, establishing a Fraser fir seed orchard, and preparing the site for this



The County Forest Ranger is the key man in the county organization.

year's initial nursery seed beds. Before the General Assembly are appropriation requests for construction and operation of a complete nursery and seed orchard complex and a mountain region training facility. The latter will probably have to be delayed and be included with future plans for a Regional Headquarters, air strip, and experimental forest.

During the 1968 spring forest fire season we extended our air tanker fleet to include a total of three large initial attack tankers and a helicopter tanker, all on contract, to supplement our own three small support tankers. Following an inspection trip through several western states we modernized our retardant mixing and loading facilities and established a system of tanker bases second to none. Experience with this fast striking fire control capability dictated major improvements in our communications system. We have started a gradual conversion of our voice radio system to double the number of frequencies available for tactical nets. We have also installed a teletype system in the eastern region to relieve the radio system of traffic and to disseminate presuppression information.



Hand labor used in stand improvement.

Another West Coast trip was made to study operating procedures and fire prevention programs in areas under intensive forest fire protection. We are now setting up pilot areas to develop a system of prearranged dispatching and pre-attack planning for our problem fire areas. This study indicates the probability of far reaching future changes in our fire control field organization. At this stage we are trying to develop a blueprint for orderly modernization to keep pace with the changes which are occurring so rapidly throughout North Carolina.

We are hopeful of a major break-through in forest fire prevention and law enforcement. The staff and field organization presented to the legislature was carefully designed after studying similar units in many agencies. Here lies the greatest challenge in southern state forestry. The alarming increase in fire incidence, in the face of strong intensification of fire control programs, must be accepted as a serious failure. Somehow we must combine into one program the capabilities of analyzing the circumstances surrounding fire causes, designing appropriate prevention techniques, and implementing prevention and law enforcement action on the ground. This requires the talents of several very different types of individuals. We believe that past efforts have failed because this total personnel input has not been put together in a single team effort. This will be our objective.

Next year promises to be busier than this year, but also more interesting. Our most imposing problem will be to adjust our organization to handle the new and additional workload. Leadership will be at a premium at all levels. These programs can be executed only through the efforts of hundreds of people. This need for foresters with leadership ability will always be with us in state forestry. I hope that people-oriented students will keep us in mind when deciding upon a career after graduation.



Fire Prevention meeting with some well-known guests.



THE SCHOOL FORESTS

By DR. R. C. BRYANT

Thanks to the efforts of Larry Jervis and a fine work crew, the past year has proved a good one in the continuing development of the School forests.

On the Hill Forest 0.6 mile of new forest road was constructed in Blocks A and C to give better access to our larger plantations. Wet portions of roads in Block B and E were gravelled, two magnesium and steel bridges were installed to replace wooden structures built by former summer camp students, and 3½ miles of road shoulder were cleared of brush. The Forestry Foundation generously helped in making these improvements possible as well as providing a slip-on water tank and pump for Jervis' pick-up for fire control purposes. Two weirs on forested drainages in Blocks B and E were constructed to augment Dr. Maki's research in watershed management. All planting on the chopped and cleared areas is now completed and includes spacing studies and white pine plantings for Christmas tree stock. You will be interested to learn that the Highway Commission has condemned the bridge over the Flat River by camp. In its place the plan is to build a low water bridge just above the present bridge site. The new bridge will help in our future logging. Doug House '47 has just purchased the timber in the first horseshoe below camp and should start logging soon.

Two weirs were also constructed on small drainages of the Schenk Forest. One will measure water production from an agricultural watershed and one from a timbershed. The class in management plans is remeasuring the permanent inventory plots on the forest this spring and developing a computer program for all of our research installations.

Partially as a result of our inventory of the Goodwin Forest last spring, a new timber sale is now in progress to clean up some of the poorer stocked stands for regeneration. Fortunately the bad ice storm in the Sand Hills passed to the south of the forest and we were spared any serious damage. Our block of natural regeneration was mist blown to control hardwood competition, but it is too early to evaluate the results.

The Corps of Engineers has now surveyed those portions of the Hope Valley Forest they intend to acquire for the New Hope project. As surveyed we will have only 345 acres of the original total of 1757 acres. We hope to retain control over our research plots that presently are within their surveyed lines. The Prison Department should complete logging below the proposed boundary this year.

We are making progress and would like to show you what is going on when you can get back to Raleigh.



1915
L. S. S.

WATER IN THE ENVIRONMENTAL SYNDROME

By DR. T. E. MAKI

"I count it as a joyous fate to be as one with the forces that sweep the waters to and fro in the tides, that move to divide the seasons that restore life or decree decay for the bearded face of the forests . . . To be at home with all that is our country is to have shared already something with eternity."

—Gill Robb Wilson

Among the self-evident truths that the profession of forestry has espoused since its humble beginnings is that, next to the air we breathe, WATER is the most vital physical resource of any community; that it is industries' most valuable raw material; that for almost every other substance there is some reasonably good substitute, but NOT for water. Water is essential.

This essentiality of water was discovered or recognized, to be sure, even before the first forester started championing it. Already in ancient times Thales (600—546 B.C.) made famous the saying "Water is best," implying, no doubt, that things go better with water, or that it beats grape squeezings and similar liquids cold. Also, in the Olympian Odes we find Pindar later (*circa* 476 B.C.), though using chemical terminology loosely, coming out four-square for water, stating very positively that "THE NOBLEST OF ALL ELEMENTS IS WATER." Thus we have irrefutable evidence that at least the early community of scholars was clearly aware of the vital importance of water.

Modern man, being less dependent on Nature and seeing man's place in the ecosystem perhaps less clearly, has not been much concerned about the sources of water except on the rare occasions when severe shortages have developed in the municipal supply or when the well has gone dry down on the farm. Few men, or women for that matter, envision the intricacies of the hydrologic cycle when they turn on the spigot over the kitchen sink



or in the back yard or, even in the bathtub where, in ancient times, at least one important principle was discovered. It all seems to come to us so easily, without pain, and usually with only a very modest charge. Whatever the reason, the hydrologic cycle is not the most popular topic of conversation at bridge or tea, nor a term to be bandied around at suppers or Sunday services. Yet it is a sobering thought that except for comparatively negligible quantities of water in *juvenile* form (newly created by chemical, volcanic, or related activity) or in *connate* form (born and trapped with formations in geologic past), the ultimate source of all our moisture on and in the ground is the ocean from whence it comes to us through *meteorologic* processes. The hydrologic cycle, not yet so fully understood that we can claim any sure measure of control over it, involves evaporation, transport of water vapor over the land, precipitation of it mainly as rain or snow, and runoff of the unused, but often nauseatingly polluted, part back to the ocean, meaning that much of the same water is used over and over again. Viewed superficially, and considering that well over 97 percent of all the moisture on this globe is the saline water of oceans, we have in water virtually an inexhaustible resource, since we drink later what was flushed earlier. Revolting, eh wot? But all it needs is the distillation that occurs through evaporation, and then enough cloud condensation nuclei of proper proportions and distribution to return it to the land, along with hope that it doesn't get polluted or contaminated as it falls through the atmosphere.



Sounds rather simple, doesn't it? But some of the statistics about our water supplies are less reassuring despite the abundance of both surface and ground water supplies on this continent. Let's consider a few facts and figures. The total land area of conterminous United States is slightly more than three million squares miles, and that of the world roughly 57 million square miles. Our share of the earth's total ground water supply to a depth of 2,500 feet is approximately 5.3 percent, or 196 billion acre-feet. In addition, large, fresh-water lakes on the North American continent constitute one-fourth of all fresh surface water on this globe. Looks good.

But let's look a little further into this matter of groundwater supply. Annual precipitation over the United States is estimated to be 4.7 billion acre-feet. It has been surmised that perhaps 1.2 billion acre-feet or roughly one-fourth of the total annual precipitation may go eventually into recharge of ground water supply. At this rate our ground water resource represents an accumulation of about 160 years (196 baf/1.2 baf/yr.). This annual recharge rate appears so frighteningly small that for all practical purposes our groundwater resource is NON-RENEWABLE, at least in those regions where heavy drafts are made against the existing supply.

And how heavy? Probably less than ten percent of our cultivated lands are as yet under a full program of irrigation, yet this pumping and diversion constitute the largest single use. In Arizona, for example, over seventy percent of the total water use is supplied by groundwater. In Texas, 83 percent goes to irrigation, 7 percent to industry, 6 percent to municipalities, and 4 percent to rural uses other than irrigation. In North Carolina you are painfully aware of the "flap" that has emerged and the "flak" that is flying in connection with the phosphate industries' pumping operations near the Pamlico Sound.

Because of the mining character of groundwater use, there are estimates that by the year 2,000 permanent water shortages will occur, at least in some localities and until other sources are developed. It will not be surprising to find shortages severe enough and of long enough duration to affect standards of living. Anyway heavy pumping in some localities and regions is jeopardizing the sustained supply of groundwater, or its quality. At one time the City of New York depended entirely on wells, but with increasingly unsatisfactory results. When her population reached 200,000 in 1830, she sought and began developing surface water sources. It is interesting to note that by the mid 1950's of the 41 cities of more than a quarter million inhabitants each, only Houston, San Antonio, and Memphis still depended on ground water supplies. Pipelines and stream channels have proven overwhelmingly superior to aquifers for transmission of the hundreds of millions of gallons needed on short notice in localities of concentrated demand.

What significance does all this have to forestry and to you foresters? It simply derives from the increasingly greater future reliance on watersheds to serve as the gathering grounds for moisture that flows into the reservoirs serving the towns and cities throughout the land. It means that in the future we will be scrutinizing more critically all the terms in the water budget which can be expressed simply as: $Q = P - (I + T + E + X) \pm S$, where Q =runoff, or streamflow, I =interception, T =transpiration, E =evaporation, X =deep seepage, and $\pm S$ represents the storage capacity of the soil. Some of the terms in this equation, as for example P we can already measure with satisfactory precision; others, as for example X , we cannot measure at all. Forest hydrologists in the future have hard work ahead to help develop better measures of the terms that will give us the basis for making better predictions of dependable yields.

The dependable yield and supply of usable water is always a function of total pure water versus waste. Literally and figuratively, water that goes over the dam is water lost to the system and community dependent on a given reservoir. The reservoir itself does not, of course, provide a measure of dependable yield; it has a ceiling defined by the total pool

capacity at crest stage. Irrespective of structural limitations, streamflow is always a *residual*, the maximum value of which, unattainable even under the most favorable circumstances, is defined by total precipitation. In this land management complex and environmental syndrome, the importance of the forester's role is clearly emphasized by the fact that so many of our major watersheds are either wholly or dominantly covered with trees and associated lesser vegetation. To maximize a stable Q-value at a realistically dependable level in all seasons but particularly in the critical summer and early autumn months, will require more precise manipulation of the forest vegetation of the watershed than has been practiced in the past and always preferably while also producing other goods and services from the same basin. As an educated forester you have the breadth of knowledge to envision the many possibilities for improvement of this physically and biologically complex system. Look at the water budget again, and note the elements in it that are susceptible to manipulation and to greatest modification. Here is an opportunity to put all your knowledge of biology and forest engineering to work to improve the yield and quality of water supplies and at the same time to maintain the quality of the environment at acceptably pleasing levels. Indeed, you can become "a man for all seasons" when your integrity and achievements have earned this appellation or epithet, as you wish.

WATER

The Most Used Material In The Production of Pulp & Paper!!

By CHARLES N. ROGERS

The water supply of a pulp and/or paper mill is one of the essential factors in determining its location. In the production of one ton of paper about 4 tons of wood (as received) and about 45,000 gallons or 180 tons of "fresh" water is used. Much of the water is used over and over again in the various processes.

The quality of the water is of importance, with regard to both the efficiency of the process and its effect on the finished product. Therefore, a knowledge of the water composition is necessary to determine the type treatment required for each specific use.

The water generally used in pulp and paper mills is either surface water or ground water or, in some cases, a combination of the two. In either event, the water requires special treatment because of the varying contents of its contaminants.

The principal qualities of water that determine its suitability for use in pulp or paper production are color, suspended matter, presence of iron or manganese, hardness, excessive amount of dissolved mineral matter, and silica. Naturally where treatment is required a uniform composition and temperature is desirable.

The various methods of treatment are too numerous and extensive to discuss in this article. In order to minimize the cost of treatment a mill will usually have multiple water treatment and distribution systems. In this way treatment is provided only to the degree required by use.

In the manufacture of pulp and paper, water is used throughout the process from the production of the trees to the finishing and converting of the paper.



On the wood yard, water is used to convey and clean the logs and also as a spray to control dust and prevent air contamination.

In the power plant water is used in the generation of steam and for cooling various equipment. The turbine generator condenser generally requires large quantities of water for the condensing of the steam, and this water is subsequently used in other parts of the mill, or cooled and recirculated.

In the pulp and paper mills water is used extensively in the preparation of cooking, bleaching and other processing chemicals as well as for washing, blending, transportation and formation of the product.

A pulp or paper mill has often been referred to as a "water mill" because in most areas the pulp is in a mixture consisting of at least 90% water. An example of this is in the headbox just before the formation on the wire, where the solution is about 99.5% water, which means that for every ton of fiber there is about 200 tons of water. In other words, a machine producing 1,000 tons per day would circulate about 33,000 gal. of water per minute.

Because of the nature of the process, in most mills much of the "fresh" water that enters the mill leaves after treatment with varying degrees of contaminants. In order to minimize the "fresh" water requirements and to reduce the quantity to be finally treated before discharging it to the natural outfall, the desirability of closing the system by recirculation and reuse of as much water as practical cannot be over emphasized.

Naturally, the degree to which a system can be closed is dependent upon the process and product and the development of economical techniques. Much research is being done now by our pulp and paper staff to improve processes of pulping and water use that hopefully will increase yields, reduce water use, and improve final treatment so that costs will be reduced and effluent improved.

In addition to the research that is being done we have added a course entitled, "Pollution Abatement in Forest Products Industries." The objectives of this course are to familiarize the student with the source of pollution, the uses of water, and the treatment of effluent.

The emphasis that we have put on these subjects indicate the importance of *WATER* in the pulp, paper, and allied industries.



RALPH J. ANDREWS

AN ASPECT OF ENVIRONMENTAL QUALITY

By RALPH J. ANDREWS

Born Smith County, Kansas, July 6, 1906. B.S. University of Nebraska; A.M. Peabody College. Instructor and Director Physical Education, Public Schools, Lincoln, Nebraska; Instructor Physical Education, Peabody College; Director Physical Education and Athletics, Western Carolina Teachers College; Consultant Health, Physical Education and Safety, State Department Public Instruction, North Carolina; Director North Carolina Recreation Commission. Member of AAHPER—Board of Directors American Institute of Park Executives, Inc., North Carolina Recreation Society and North Carolina Society for Crippled Children and Adults. Appointed by Governor Luther H. Hodges to the Governor's Coordinating Committee on Aging. Served, through present date, on this body. Appointed by Governor Moore to John H. Kerr Reservoir Development Commission and on the Governor's Council on Natural Resources. Granted Fellow Awards from the North Carolina Recreation Society and from the American Recreation Society. These are the recreation profession's highest awards. Member of the North Carolina Seashore Commission and the Coastal Historyland Association. Member of the Board of Directors of the North Carolina Recreation Society. Writer of more than 150 published articles in professional recreation and related magazines, author and co-author of various professional manuals, brochures, and other informational and training bulletins. *Who's Who in the South and Southwest* and *Who's Who in Education*.

Taking for granted the incorporation of basic conditions of safe, economical, enduring structural engineering two important concerns to the field of architecture emerge. These two facets occur in home building, community development in public, private, and commercial recreation areas and structures. The first of these is to develop functional readiness, in residential, business and public structures of recreation use in our recently acquired funds of disposable time, energy and money in this era of leisure. The architect must give important consideration to these functional factors, as follows:

Site, size, basic and related function, topography of the area, orientation of the structure, and all other natural and man-made features which are part of or immediately adjacent to it may add to the quality of the environment.

Still another factor of great importance is the program, or planned-use factor. It is in this aspect that the North Carolina Recreation Commission and its specialists in recreation planning can, together with the architect, develop structures which are not 20 years old, recreation-wise, when they are built.

The Commission staff is available for review of plans which architects have developed and for consultation with regard to the incorporation of recreation resources or of some means for realizing best recreation potentials. This can have desirable effects upon the environment.

Architecture has much to contribute to leisure-age research. There will be more of the team research method in which the planner, the architect, the landscape architect, the engineer, the conservationist, the forester, the horticulturist, the land economist, the soils expert, the water commissioner, the educator and recreation will coordinate their planning and recreation research approach, as well as the data which they separately develop. From this will come a new body of knowledge of principles and concepts and, finally the policy upon which the future of recreation will be determined and from which we shall advance. North Carolina will be associated with leaders in this research. It is our hope that in this leadership we will find outstanding personnel from various fields and that, together, they will work for improved environment.

Two aspects of recreation area and structure development have emerged. These are present from the small residence to the largest public establishment. The first, the functional approach, has been much discussed. The second aspect is that of the opportunity which the recreation structure provides for the architect and builder to turn to their advantage, and make a contribution to the cultural and functional development of our time. These are important aspects of our environment.

The development of recreation structures is so new, in relation to the long history of architecture, that the architect is not restricted by many of the traditions, fetishes, taboos, and status symbols which many other kinds of structures (including homes) have acquired throughout the years. This gives more free rein to the creative talent than is given in many other parts of the architectural field.

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RECREATION AND THE ENVIRONMENTAL CRISIS

By GORDON A. HAMMON, *Associate Professor*

Until early in this century, it was possible to cope with environmental conflict by working out rather broad areas of compromise on an empirical basis to accommodate a rather limited spectrum of needs. The general abundance of all resources, including water, resulted in relatively high levels of tolerance. There was wide latitude for accommodation to defer crisis by detente and avoid a conclusive confrontation between the protagonists of incompatible interests. Over the next hill were lands to gut and fresh rivers to soil. An attitude of *lassezfaire* prevailed—and we could afford it.



Under the momentum of World War II, we have made an abrupt transition from a family, rural, agrarian, small-town-oriented nation with wide latitude for at least semi-autonomous choice to a highly complex, urbanized society. Unfortunately, the transition has amplified and accelerated forces which affront the dignity of man and debase the quality of his existence. Awareness of the onslaught has stimulated a clamor of protest across the land. Pollution has become a household "buzzword." From the campus to the Congress, from dimestore to discotheque, from sportsman to scientist, and from salon to saloon, concern and indignation are evident. But much as the red cloak with which the toreador both stimulates his bull and shields the weapon which will soon precipitate the creature's untimely demise, the focus on environmental pollution and its attendant ills tends to cloak the real villain of the piece.

Pollution per se is a detectable defect for which remedial techniques are available and feasible provided that society is willing to pay the cost. The existence of an environmental crisis is obvious, but pollution is simply the physical manifestation of a totally inadequate rationale for optimizing the mix of resource outputs for the long-term benefit of society as a whole. Lacking the rationale and unified policy goals, resource decisions are made on a crisis-by-crisis basis which elevates expedience to the level of policy. Pollution, and all the consequences attendant thereon, will persist for just so long as we fail to recognize and attack the central issue. The need to conceptualize and implement wise, enlightened public policy with respect to all natural resources, and particularly to the water resource, emerges as a major challenge of our times.

Recreation, as a relatively recent contender for the beneficial uses and services of natural resources, has added a new dimension to the clamor, the conflict and the challenge. Borne on a tide of more people with increasing amounts of money, discretionary time, and with greater mobility, the recreational needs and wants of people have intensified the pressure on the diminishing resource base. Water is a focal point of the overall conflict and water is an essential or an important ingredient of the types of recreation opportunities which are in highest demand. More than 75% of today's outdoor recreation is water based or water oriented. As the functional and indispensable base for fishing, boating, swimming and other water sports, no less than 30% of our nation's active outdoor recreational pursuits are subtended on the existence of suitable waters. At the aesthetic or psychological level, water plays the leading role in the recreation scenario. The recreation experience has a high emotional content. Water has a unique and universal potential for stimulating human emotion. Visual responses to space motion and setting are strong. There seems to be an instinctive desire for the proximity of water which brings with it feelings of security and emotional fulfillment.

The socio-economic inputs and outputs of water as a functional recreation base are subject to analysis and quantification within limits adequate for practical purposes. The inputs and outputs attributable to water at the aesthetic level may never be quantified in more than very general or relative terms. Intellectual comprehension of their order of magnitude is definitely possible and is an indispensable prerequisite for the needed problem analysis.

Recreation is generally viewed as a non-consumptive use of renewable natural resources. In the context of water resources, the term "non-withdrawal" may be more appropriate. Notwithstanding its non-withdrawal or non-consumptive characteristics, recreation has a highly competitive and intolerant impact on the resource base. It can readily be shown that recreation and associated aesthetic requirements place very stringent demands on water quality; demands which are substantially higher than those imposed by domestic or industrial considerations. The recreation experience has a very low threshold of tolerance for the debasement of water quality. It is almost hypersensitive with respect to adverse influences which affect appearance, including color and clarity, to the level of contamination; to the type and quality of fish and associated wildlife; and to fluctuations on surface levels and/or rate of flow. Furthermore, there is a high incidence of competition and conflict with other major water resource functions and values. Among the more obvious and important of these are power, production flood control, and irrigation.

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THE RECREATOR AS A PROFESSIONAL MAN

By ROBERT E. STERNLOFF

The recreator should feel a responsibility not only to program participants, his department, and his community, but he should also assume responsibility to promote the growth of his profession. An occupation does not become a profession simply because those involved decide to call it a profession. An occupation achieves professional status only when it possesses rather specific professional characteristics. Included among the characteristics of a profession is the display of professional behavior, attitude, and performance by its practitioners. There can be no profession unless there are members who exhibit the characteristics of professional men.

The professional recreator is primarily motivated by a desire to serve rather than concern for financial reward. He is involved in recreation service because it provides him with the greatest personal satisfaction. He is convinced that people are most important, and that the main purpose of recreation service is to enrich the lives of people. He evaluates recreation activity and service on the basis of its influence and ultimate effect on people. Since he believes that people are most important, the professional recreator respects all human beings and constantly demonstrates his interest in their welfare by practicing the "golden rule."

The professional man is an educated man who has successfully completed a period of systematic preparation necessary for his work. He knows what needs to be done in recreation, how to do it, and has a clear understanding of why it should be done. He knows that education is a continuous process and, therefore, attends professional meetings and keeps abreast of current developments; and thus, he is aware of new discoveries in the sciences which underlie his field of work. He recognizes the importance of being knowledgeable and conversant with fields that are closely allied to his own, and seeks to develop a better understanding and appreciation of the work of his professional colleagues in education, sociology, psychology, and other related areas.

The professional recreator not only develops mastery over a body of knowledge, but he also seeks to contribute to this body of knowledge through research and writing.

A profession exists only when the technique is practiced in common, and a relationship is developed among the practitioners. Therefore, the professional man joins the society or association of his profession, attends meetings, and contributes both time and energy toward furthering the work of his profession and elevating its standards. When he accepts membership on a professional committee he contributes to the work of that committee to the best of his ability.

The professional man conducts himself at all times in such a manner as to reflect favorably upon his profession. He recognizes that his profession will be judged by the behavior of those individuals who are in it and that unbecoming conduct will reduce the status of the profession in the eyes of the beholder. His professional life and conduct are regulated by a code of behavior which is based upon right moral and ethical principle. He speaks the truth and conscientiously avoids the spread of hear-say or gossip.

(Continued on page 158)



PROGRESS REPORT FOR THE HOFMANN FOREST

1968

By G. E. JACKSON, *Forest Supervisor*

NORTH CAROLINA FORESTRY FOUNDATION, INC.

The Deppe Weather Station reported a very dry year on the Hofmann Forest for 1968. A total of 42.92 inches of rainfall was recorded. It was so dry in the late Summer and early Fall, that nearly all the canals and outfall ditches went dry and for the first time in the history of the Forest there was no appreciable amount of water moving off the Hofmann Forest.

No damage was reported from wild-fires during the year. Several small fires occurred around the logging operations, highways and railroad but these were quickly controlled. The Deppe plantations, established, in 1936, were control burned for the third time in February with good results.

Total pulpwood cut on the Forest measured 14,862 cords. The sawtimber cut measured 926M bd. ft. Several of the loggers added new equipment and all-year logging on the Forest is now an established fact. The Albemarle Paper Company is now using a custom built Pettibone log slasher mounted on skids and is designed to economically log areas that would be marginal with conventional equipment.

The area planted during the year was 1,333 acres. This gives a total planted on the Forest since 1935 of 4,765 acres. Some of the seedlings planted in 1968 were from Albemarle's seed orchard stock of genetically superior seedlings.

Two drainage projects were completed. One was at the head of White Oak River and the other on Cypress Creek. Secondary drainage was continued with back-hoe ditches. A survey was made on September 1, 1968 to find the number of miles of roads, ditches, bridges and culverts that have been completed on the Forest or adjacent to the Forest. The total constructed and maintained are as follows: roads 302.3 miles, ditches, both drag line and back-hoe, 445.3 miles, bridges and culverts 177. This development program is making the intensive forestry activities possible on areas that have been inaccessible.

Visitors continue to come to the Forest to see the operation. Executives from Albemarle, Oxford and Ethyl were on the Forest in March. The Foundation Board had their meeting at Deppe in May. The third North American Forest Soils Scientists, totaling 85 members, toured the Forest in August. Several Countries were represented at this conference. The Croatan Chapter, S. A. F., had a field day and supper as our guest in September.

The Hofmann Forest is managed by Mr. W. W. Wicks of Maysville, a forester with Albemarle Paper Company. The assistant Manager is Mr. W. E. Scholtes, class of 1951, NCSU, Jacksonville, N. C.

FOOD AND FIBER FOR BILLIONS

By ANDREW SHIRLEY

This was the theme for the tenth annual "Open House." This half-day exposition is put on for the benefit of persons interested in attending N. C. State and especially those who are oriented more toward the fields of Agriculture and Forestry. For the past two years, the School of Forest Resources has joined the School of Agriculture and Life Sciences in helping with this presentation. Booths from the different departments lined over half of the coliseum arena area. A record 4,000 high schoolers, along with parents, counselors, teachers, and community college students attended.

The Department of Agriculture had exhibits showing developments in plant and animal breeding and stressed the importance of genetics research as the key to tomorrow's foods. Also shown were new, flavorful bits of bacon, ham, and other foods which looked and tasted like the real thing but were made entirely of soybeans.

The theme for the School of Forest Resources was "Fibers from the Forest." The Department of Recreation Resources Administration had a display consisting of several photos of recreational facilities and a slide program showing the concepts, opportunities, and future of the field of recreation. The title of their exhibit was "Fun from Fibers."

The Department of Forest Management titled its exhibit "Production of Fibers" while the Departments of Wood Technology and Pulp and Paper titled their exhibits "Utilization of Fibers."

Fibers were shown as they flowed from seed to paper. The management exhibit had several photos, some of which showed site preparation, planting, growing, cruising, harvesting, and genetics. Potted seedlings of both hardwood and pine were shown. These ranged in size from two weeks, when the young plant is pushing its head out of the soil, to one year, when the seedlings are replanted as forest stock. A display demonstrated planting tools and the method in which they are used. These seedlings led the eyes to pictures of mature forests, ready for harvest. A pile each of hardwood and softwood pulpwood showed fibers in their harvested state. As the exhibit changed departments, a pile of wood chips showed the fibers as they are readied for the conversion to paper and other fibrous products. Fiber characteristics next occupied the scene. Microscopes showed individual fibers of different species and another device projected magnified fibers so they could be measured by the visitors.

With pictures of paper making operations in the background, the visitors could watch as wood pulp was taken from a slurry and made into paper before their eyes.

About a dozen students were on hand to represent the School of Forest Resources. Dressed sharply in suits, they answered all sorts of questions put forth by the visitors. About eight of these volunteers were members of the Forestry Club and proudly displayed their membership patches.

With the participation and interest shown this year, next year's Open House promises to offer even more.





THE FORESTRY COUNCIL

By LARRY BLACK

The Forestry Council was first established in the fall of 1966. At that time, the Council consisted of the presidents of the five student organizations within the School and three faculty members. The initial purpose of the Council was to improve communications between the faculty and students of the School. But since its beginning, the Forestry Council has grown in size and responsibility. The present structure of the Forestry Council consists of the presidents of the department clubs or organizations and a student government representative from each student class. Dr. Saylor represents the administration on the Council.

With its expanded membership and responsibilities, the Council elected officers and began work on a constitution. Another early task of the Council was to formulate a budget for the academic year. The School receives from the administration two dollars per semester for each student enrolled in the School of Forest Resources. The Forestry Council operated under the following budget for 1968-69:

Division	Per Student	Total
PINETUM	\$2.00	\$1,200
Department Fund	1.10	660
General School Fund	.90	540
	<hr/>	<hr/>
	\$4.00	\$2,400

The Department Fund was subdivided on the basis of the number of students within a department; the General School Fund was used for the senior picnic, publication of a newsletter, campus social activities, and other needs during the academic year.

The main purposes of the Forestry Council are to better coordinate student activities, to inform the Administration of dissatisfaction or tension, and to give good communication to the student body of activities within the School. The Council felt that one of the best ways to meet its objectives was through the publication of a newsletter. The first newsletter appeared in February and contained articles from each department club or organization, some facts and figures about student enrollment, a list of job interviews, and a brief report on the new forestry building. The newsletter carried the title "Slabs and Edgings," which was a former publication of the School of Forest Resources. The response to the newsletter was quite favorable, and it is hoped that the newsletter will be a regular publication in the future.

One of the most relevant activities of the Forestry Council this year involved the discussion of curricula changes within the School. The Council coordinated with the department clubs and held meetings in which the head of the department and other faculty members discussed curricula changes with students. These meetings provided an opportunity for students to express their opinions about the educational system. The ideas gained from these meetings will be utilized by the administration in establishing future curricula requirements. The Council gained interest in curricula changes from a Society of American Foresters meeting held in early February. In addition to the influence of the SAF meeting, the Council was cognizant of the student unrest and campus violence which plagued many campuses of America. The department meetings were an attempt to divert campus violence through open expression of student ideas and opinion.

Since its beginning the Forestry Council has been a dynamic organization. Through its growth in size came added responsibilities. But the Forestry Council still has as its primary purpose to serve both the students and faculty of the School of Forest Resources.

ALPHA ZETA

By RONNIE BROWN

Alpha Zeta is a professional honor fraternity which includes in its membership outstanding students from the School of Forest Resources and the School of Agriculture and Life Sciences. Qualifications for membership include scholarship and character, but demonstration of leadership ability is the chief criterion.

The North Carolina Chapter of Alpha Zeta is currently the Number One chapter in the nation. At the 31st Biennial Conclave held in the summer of 1968 in Raleigh, the other 57 chapters chose North Carolina as the most outstanding of all Alpha Zeta chapters.

Among the chapter's activities are the Alpha Zeta Book Exchange, the AZ Leadership Seminar, the Founders' Day Banquet, and participation in the Agriculture and Life Sciences and Forest Resources Open House held each fall for high school students and in the Freshman Orientation program for agriculture students.

Being Number One, the North Carolina Chapter cannot rise any higher, but the brotherhood is determined to maintain its top status in the future.



FORESTRY CLUB

The officers of the Forestry Club for the 1968 fall semester were:

President: Bill Rodgers
 Vice President: Jim Starr
 Secretary: Ed Goforth
 Asst. Program
 Chairman: Craton Stephens
 Sgt.-at-Arms: Drew Shirley
 Work Crew Chairman: Doc Folk

Spring semester officers are:

President: Bob Collette
 Vice President: Drew Shirley
 Secretary: Tom Morgan
 Treasurer: Bill Coleman
 Sgt.-at-Arms: Gerald Coggins
 Asst. Program Chairman: Jim Sitts
 Asst. Pulpwood
 Chairman: Greig Knowlton

The Club, with 73 active members, began firewood operations early in the fall to raise money for major projects—the Rolleo and a Homecoming Parade Float. The Forestry Club float won second place in the organization division. The theme was, "It's a Wolfpack World." A large trophy was presented to the Forestry Club.

The Open House, jointly sponsored by the School of Agriculture and Life Sciences and the School of Forest Resources, was a huge success. Drew Shirley was responsible for coordination of Club members and the faculty planners. The Forestry Club appreciates the opportunity to represent the School of Forest Resources.

Doc Folk's work crews have been doing an excellent job filling firewood orders and pruning trees. The savings account continues to grow. Hopefully, the Forestry Club will have \$3,000 by 1975 when it sponsors the ASFC Conclave.

The Logger's Brawl will be the big social event of the spring. Of course, "spirit" is running high about the Conclave at Auburn. Practice will start the first week of the spring semester. The Club feels it has the best chance ever to win this year.

In February, Dr. Bryant will make a report to the Club about the curriculum and courses decisions made at the SAF meeting at Roanoke, Virginia. At the meeting on March 4, the Club will have department heads and professors to openly discuss courses at NCSU, School of Forest Resources. All students are invited and urged to attend these two meetings.

THE ROLLEO OF 1968

By BOB COLLETTE

The Rolleo of 1968 was accompanied by November's favorite weather condition, a cold rain. This did not stop Rolleo Chairman Gary Conover and his crew from beginning early November 9 to prepare Camp Slocum for the faithful crowd of 115 people that attended. With the help of Seniors Marc Staff and Don Dozier as Freshman team captains, Jim Bleadingheiser as Sophomore team captain, Drew Shirley and Dennis Hearn as junior team captains, and Dave Smith as Senior team captain, all were ready to go when the first event started at 11 o'clock.

The first event was the D.B.H. estimation. After a damp walk through the woods, Freshman David Waldroup emerged as winner. With the expert judges Dr. T. E. Maki and Mr. Mac McLaurin manning the stop-watches, the Juniors behind George Crum captured first place in the chain throw with a time of 1 minute, 52 seconds. Senior John Harper gave it a gallant try, but his chain with the slinky mind would not cooperate. The next event was the back-breaking log roll. The Freshman team of Greg Knowlton and Gerald Coggins proved to be the best slip and slide group as they captured first place in 2 minutes, 6 seconds. Maybe they had the largest feet. Thanks to the log roll, the pulp toss arena was now a mud flat. The pulp toss turned out to be a twofold event, requiring strength and balance. Senior Mike Johnson was victorious with a toss of 14.6 feet. The pole climb was won by Freshman Greg Knowlton in a time of 11.3 seconds. His time was amazing when you consider that it was raining, causing the



Mike Johnson
throws the winning toss.

20-foot pole to be very slick. The next event was the most chilling event of the day, the enjoyable log birl. This event was for those contestants who had a strong desire to take a dip in 40-degree water. The winner, Senior Brian Raycher, didn't give anyone a chance. He charged into the water, wrapped his tennis shoes around the log, and won standing up. I heard Greg Knowlton can hardly wait to try again next year.

Lunch was really welcomed by all as we had a chance to rest and dry out some. The barbeque lunch with all the trimmings was delicious, but the best part of the meal was the warm apple cider. Our thanks go to the food committee for the barbeque and cider and to Mrs. Frances Liles and Mrs. R. C. Bryant for their assistance in the kitchen.

After lunch, Dave Gerwig received the Homelite Scholarship Award for having demonstrated leadership and scholarship in forestry. The award was presented by Homelite representatives James Gatlin and Russell Shrum of Charlotte, North Carolina. Freshman Robert Allison received the Freshman Axe for achieving the highest scholastic freshman average in the School of Forest Resources. This award is an annual presentation of Xi Sigma Pi, National Forestry Honor Fraternity.

The afternoon events were just as exciting as the morning events. The first event was the knife throw. With the rain still falling, Junior Craton Stephens easily outscored his opponents for victory and tied the Junior team with the Senior and Freshman teams. It looked like it was going to be a nip-and-tuck fight the remainder of the afternoon. The cross-cut event was won by the Senior combination of Mike Johnson and Doc Folk in the time of 16 seconds flat. The Freshman and Juniors were close, but the Seniors proved to be masters. The axe throw was the closest scoring event of the afternoon. With the Freshman and Junior contestants having completed their throws, both were tied with nine points, usually enough to win. Senior Bob Collette was next and he really had his work cut out for him. With Tim Coffin coaching from the sidelines, Bob threw for 11 points and first place. The Junior and Freshman contestants had to have a run-off for second, and Junior Bill Coleman again threw for nine points and second place. Junior Ron Kmet literally out-muscled the field and won the bow saw event by more than 13 seconds. The speed chop event was next, and it required skill with an axe, nerve, and most of all, endurance. Senior Don Dozier proved to be the better man as he won a close event

over Freshman Gerald Coggins. The fire fighting event is not what most think it is. This form of fire fighting is not fighting a hot blazing fire, but attempting to keep your cigar lit and smoking by puffing and puffing as you attempt to extinguish the other contestants' cigars with the aid of an Indian pump. The contestant with the shortest cigar after the Fire Fight is declared the winner. Senior Ralph Malany was declared winner. Freshman Greg Knowiton could have been the winner because he disposed of his cigar first, but he was disqualified because he swallowed his cigar butt. Freshman Tom Botkins proved to be the best drinker as he downed a 12-ounce Pepsi in 10 seconds and won the chug-a-lug event. The last event of the day was the tug-o-war between each class team. With a slick field, the event was one of strength and footing. As the "pull-pull" shouts echoed through Camp Slocum, the Junior team emerged as champions. The Juniors' victory has to be credited to two small anchor men, Bill Coleman and Ron Kmet.

When all scores were tallied, the Senior team had won the overall title by one point over the Junior team and by four points over the Freshman team, with scores of 37, 36, and 33, respectively.

This year, for the first time, event winners were presented beautiful trophies built by Tim Coffin and his trophy committee.

We want to thank Gary Conover and his Rolleo Committee and the other Forestry Club members who worked hard to plan this successful and enjoyable Rolleo. We hope the Rolleo of 1969 is just as successful. See you next year!

'68 CONCLAVE

By DAVID SMITH

Spirits were high as the busload of 24 Wolfpack foresters started out for Clemson. Enroute, Bill Rodgers was elected team captain to replace Marc Staff, who sustained a knee injury while practicing pole felling and had to remain in Raleigh.

After a six-hour bus trip, we arrived at Clemson YMCA Camp on the shores of Hartwell Reservoir. We registered and picked up our meal tickets for the weekend. The rest of the afternoon was spent setting up camp, getting a supply of firewood, renewing old acquaintances, and getting some last minute practice. That night we ate barbecued chicken, listened to country music and bagpipes (?), and prepared the equipment for the coming day's events.

Morning came and the competition soon began in earnest. State was out to improve their showing at Georgia and had worked hard toward this end. This work showed up early as the field events got underway. Craton Stephens took second in knife-throwing after tying with a boy from Stephen F. Austin who had to settle for third. Tim Coffin took fourth in axe-throwing after a close throw-off. Then the chips, not sawdust, flew as "Doc" Folk and Terry Laubisch teamed up to buzz through the cross-cut cant in 15.3 seconds to win first place by 5.7 seconds. Before the lunch break, Laubisch and Gary Conover combined efforts to take a third in log rolling.

When the results for the technical events were announced during lunch, we found out that we had not done too well in these events and that they



What more could you ask for?!

would need some more work before the Auburn Conclave. Our best showing in the technical events was a third in compass and pacing by Wayne Hausknecht.

After lunch "Doc" got up on his chopping cant, took a few swings, knocked out a few slabs, and stepped down to watch the others continue their tasks. "Doc" beat everyone by 19 seconds, but a 5-second penalty due to a misunderstanding with the starter made the margin of victory 14 seconds. "Doc" argued a few minutes but the judge wouldn't give him anything more than first place. Poor "Doc!"

After the last event, pole felling, was over and the dust had settled, the scoreboard showed State had finished fifth. We had bettered our Georgia showing but it was disappointing because we thought we could have taken first.

The banquet that night was held at a nearby restaurant and the State boys were the last to arrive. There was still plenty of food, however, and as always, we stuffed ourselves full as did everyone. Mr. John R. Tiller, Head of the South Carolina State Commission of Forestry, spoke to us on the future of forestry in the South and the problems that will face forestry in general in the future.

While most of the team members went back to camp to start the celebration, the team captains were engaging in heated debate about a new chain-throwing technique used by S. F. Austin. When the captains returned, the festivities were well underway and were destined to last long into the night.

Sunday morning we ate breakfast at the Clemson House Hotel and started back to Raleigh. The trip back was filled with sleeping, the loss of Tim Coffin's button-covered black crusher, and talk of the Clemson Conclave and how we could improve in order to take first place at Auburn in 1969.

Congratulations to all the trophy winners and thanks to all the others who went and competed without which there wouldn't have been a team.



THE FOURDRINIER SOCIETY

BY RONNIE BROWN

President: Ronnie Brown
Vice-President: Robert Ousley
Program Chairman: Ray Haynie

Secretary: Shannon Nichols
Treasurer: Richard Small
Coordinator: Bob Mitchell

The Fourdrinier Society, the organization designed for service, communication, and friendship in the pulp and paper curriculum, has held several meetings so far this year. Each meeting has had a program which was interesting to most of the pulp and paper students and faculty in attendance.

The programs selected for the meetings seek to provide information in areas of interest to all, areas not strictly technical and uninteresting. As examples of what the Society has done this year, one meeting was a tour of the modern Crown Zellerbach box plant in North Hills. Another meeting had Dr. Ranby, a visiting lecturer from Sweden, speak about the raising and preservation of the Wasa, a Swedish mad-o-war.

Other programs concerned the PPT curriculum, Computer Applications, and the Verti-Forma. The year ended with the traditional "picnic," which everyone thoroughly enjoyed.



FOREST PRODUCTS RESEARCH SOCIETY

By JABBY BROCK

President: Jerry Hix

Secretary: Mike Smith

Vice-President: Dennis Ammons

Treasurer: Art Raymond

Corresponding Secretary: Jabby Brock

The Forest Products Research Society is an organization composed of students from the curriculums of Wood Science and Technology, and Furniture Manufacturing and Management. The purpose of the organization is to supplement classroom study with presentations from outside professionals in the wood industry. The scope of the society includes research, development, production, utilization, and distribution of forest products.

This year we have been privileged to have several outstanding speakers. Among these have been Mr. Charles Morchauer of the National Particle-board Association, Mr. Dick Behm of the Fine Hardwood Association, and Mr. Ed Shook, a consultant for the furniture industry. Also among the speakers was a panel consisting of four men from the Sherwin-Williams Technical Center. The panel was made up of Messrs. Hugh Burton, Art Gillaval, Dave Morgan, and Rudy Head.

An innovation of the society this year was the sponsorship of a product utilization contest for the Overton Container Corporation. The contest being to determine a use for the triangular beams of plywood which have now become part of the decor in Kilgore. The members are awaiting the results of this contest, which will result in a \$500 prize for some student taking courses in the School of Forest Resources.

Finally, the society has maintained a never-ceasing endeavor to recover the \$7.86 owed us by the Furniture Club for last year's picnic.



Elected Officers



Membership

RHO PHI ALPHA

BY CLYDE Z. McSWAIN

Alpha chapter of Rho Phi Alpha, honorary and professional fraternity, was founded in 1958 by Professor T. I. Hines and eleven outstanding seniors in the curriculum of Recreation and Park Administration.

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, indoor and outdoor, and to recognize persons making outstanding contributions to the field of recreation and parks.

Under the leadership of President Bill Flournoy, the fraternity has reorganized its constitution, its committee structure and the conduct of its business meetings to compliment the curriculum's change to Recreation Resources Administration.

During the year, undergraduates were added to the membership. After a week of informal initiation the pledges were formally inducted during a candlelight ceremony involving all the active members.

Besides the regularly scheduled business meetings the fraternity has sponsored several curriculum-wide activities. The reception for freshmen and new students highlighted the fall activities along with films on recreation.

Several members participated in a student forum on the summer internship program, in Greensboro during the N. C. Recreation and Park Society Conference.

During the year, several committees have been carrying out projects for the fraternity. Establishment of a Beta chapter at Clemson, the creation of a library of recreation resource materials, and the tracing of graduates of the curriculum, and the beginning of a curriculum-wide Majors club constitute the bulk of the fraternity's work.

The end of the academic year will be brought to a climax by a picnic for RRA students and their dates. At this picnic the fraternity will honor the "Outstanding Senior." The "Outstanding Senior" is that individual who is respected by the fraternity for his enthusiasm, leadership qualities, and outstanding professional attitudes.



XI SIGMA PI

By EDWIN A. LISTERMAN

Forester: Larry Black

Secretary-Fiscal Agent: Ed Listerman

Associate Forester: Ray Haynie

Ranger: Dave Gerwig

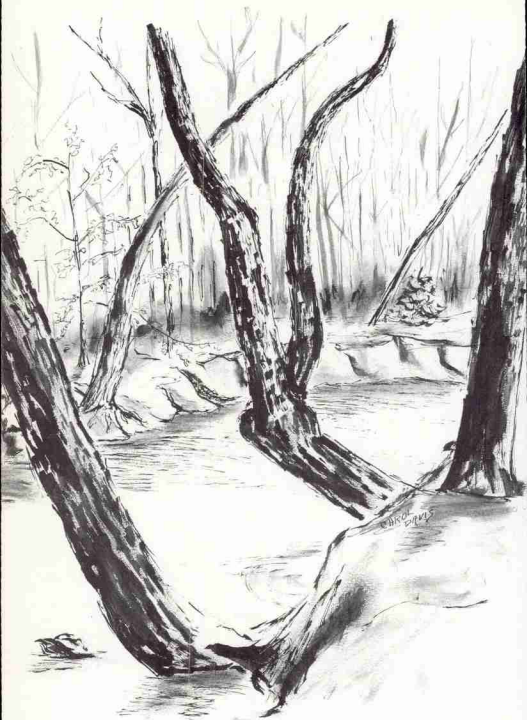
Mu Chapter of Xi Sigma Pi, national forestry honor fraternity, was established at North Carolina State University on April 17, 1940, through the efforts of the late Dr. Hofmann.

The objectives of the Fraternity are: to secure and maintain a high standard of scholarship in forestry education, to work for the upbuilding of forestry, and to promote fraternal relations among earnest workers engaged in forestry activities. The Chapter's intentions are to honor and encourage those individuals who excel scholastically and have an active interest in the promotion of the forestry profession.

Mu Chapter has worked vigorously during the year trying to develop unity among the students from the Departments of Forestry, Recreation Resources Administration, and Wood and Paper Science, within the School of Forest Resources. Since Xi Sigma Pi stands for scholarship and leadership in the world of forestry, it is only fitting that the Fraternity should be the representative organization of the School uniting all departments. In an effort to achieve unity, Mu Chapter for the first time inducted Brothers from the Department of Recreation Resources Administration. Miss Patricia Hart from RRA became the first woman inducted into the Chapter, and the Brotherhood sponsored Miss Joan Powell from RRA to represent the School of Forest Resources in the Homecoming pageant. It is the hope of the Brotherhood that these will serve as a start in achieving better relations and a better union between the departments of the School of Forest Resources and further strengthen the forestry profession.

The 1968 Outstanding Senior Award, honoring the senior outside the fraternity, who has exhibited unselfish devotion to the promotion of the forestry profession, was presented to Mr. Marc Staff from the Department of Forestry. Mr. George Glass, Jr., from the Department of Forestry attained the highest GPA among the seniors for the School and was honored for his achievement by having his name placed on the Xi Sigma Pi Axe. The Freshman Axe, awarded to the student with the highest academic average of the freshman class, was presented to Mr. Robert W. Allison from Pulp and Paper Science and Technology at the annual Rolleo.

Traditionally Mu Chapter will sponsor the Senior Day Picnic, final farewell gathering of students and faculty on May 17.



SUMMER CAMP — 1968

By STEVE DIANIS

On June 3, 1968, 55 young prospective foresters assembled in room 159 of Kilgore Hall to receive their room assignments for a seven week vacation in the wilds of Hill Forest. Two hours later, summer camp '68 was officially under way! From that moment on, everyone realized why subdued laughter rippled through upper classmen when, prior to this time, someone mentioned summer camp. And the idea of vacation disappeared in the steam of the coffee rising in the chill air at 6:00 a.m., as the clatter of utensils suggested everyone was late for their 6:30 work detail, which meant certain tardiness for the scheduled 7:30 classroom exercises.

The newness of the surroundings quickly wore off, and fellowship prevailed in camp. Games of stretch were evident during every break, and some mention was made of hot competition in the Queen's room . . . and then someone would sight Dr. Steenson making his way back from the mess hall, coffee cup in hand . . . and everyone in camp knew what that meant!

Very soon, 55 students, eager to learn, but understandably apprehensive, found themselves with transit in hand and a practice area set up for them to run a traverse on. After much joking, followed by intense quiet, followed, in turn, by blue-flame cursing, and after many soft cries of "timber" emanating from the prize ten year old loblolly stock, the lines were cut, somewhat the size of a small four lane highway in some cases, and the traverses were completed. Preparations finished, the now expert surveyers were ready for their first timber cruise.

The cruise project was the last major event of the program to be held on Hill Forest, and 11 elated crews happily began their tedious work. The happiness soon wore off as the tedium wore on, and each section was finished in turn, days later. Happy groans pervaded the timber-studded camp area as the deadline was met.

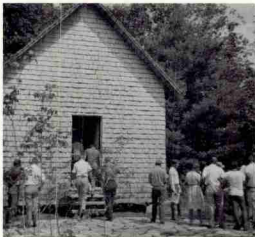


Remodeled kitchen at Slocum Camp.

Perhaps one of the most enjoyable learning experiences was the fire school in Kinston, where "Big A" and "Wo-Wo," prospective foresters from Wayne Tech., cleared their dust clogged vocal cords after two days of intensive instruction and one day actually fighting a simulated fire with one and a half million dollars worth of equipment. A lesser degree of equipment was dispatched the evening after "The Big Fire," as numerous raiders seemed to be combatting their own personal fires in and around the barracks that housed the fire crews.

The annual two week excursion into western North Carolina was based in a dormitory on the rolling campus of Western Carolina University. Here, the loyalties of the group were divided into two factions; those rugged individuals who chose to ride the truck on the many long field trips, and those who were ingenious enough to forsee the cold, rainy mountain weather, casting their fate to the bus. Mike Johnson drove his truck crew to glory along the curve laden western North Carolina roads, while James Maston piloted the bus in a number of wondrous maneuvers (Hey! Get that Pepsi truck off the road!!!) Good, Clean (!?!) fun was had by both crews in their two week rivalry.

There is a rumor going around that John Rennie is still looking for an Allegheny chinkapin in the chestnut studded mountains. Maybe if he would look up . . . Dick Starnes has recently been studying various herbarium specimens of American beech . . . Andrew Shirley and Craton Stevens are still talking their way out of the pond (But men, you can't have sirloin every night) . . . Block E, Hill Forest, never looked so good as after the camp project was finished, particularly because it *was* finished . . . Jimmy Naylor sure brews a good batch of sassafras tea, especially when there is smoke in the air . . . And they tell me the flowers on the mountain sides of western North Carolina are pretty on a thirteen mile hike! That was summer camp, brother, 1968.



First forestry school in America.



Summer Practicum

WOOD TECHNOLOGY SUMMER PRACTICUM - 1968

By HENRY STOOP

The summer practicum is a six-week course for wood technology students and furniture manufacturing students. The course consists of a five-week laboratory in furniture construction and one week of job orientation. Wood Technology students spend the remaining weeks of the summer in on-the-job training with companies in the wood-working industry.

The first week of the practicum was used for instruction to prepare us for the actual construction of the nightstand. Each person had to prepare a cutting bill for the materials used in construction, and make shop drawings of the traditional nightstand. During the week Mr. Gilmore demonstrated the proper use of the wood-working machinery. So, the initial week of the practicum was finished.

During the second week the class was split into two sections with each section divided into crews of three or four. For a week and a half the sections spent half of the day machining the parts of the nightstand, and the other half learning important information from Mr. Carter concerning kiln drying. The kiln drying course dealt with drying schedules, moisture content readings, stacking techniques, and operating the dry kiln.

On Monday of the third week, we boarded the green monster for a trip to Galax, Virginia. On route we stopped to visit Walton Lumber Company. We visited Vaughan Furniture Co., Inc., Dixon Lumber Co., American Mirror Co., Webb Furniture Co., Sawyers Furniture Co., Vaughan Bassett Co., Palaski Veneer Co., and Palaski Furniture Corp. while at Galax. Although the furniture boys said that the plants didn't show them much, a great deal was learned about furniture manufacturing from the plant tours. The reports written about the plant tours revealed the new facts learned. Our journey on Monday took us to Reliance Universal Inc. and

U. S. Plywood Corp., Virginia Novaply. On Tuesday we visited Jordan Lumber Company, Sandhill Furniture Co., and Triangle Plywood. Mr. Bill McNamara taught the gluing portion of the practicum. While studying gluing, we continued to machine parts for the nightstand. We studied glue classifications, glue properties, plywood manufacturing, and particleboard manufacturing. After studying the gluing, we manufactured plywood and particleboard panels for use in construction of the nightstand and testing purposes.

After construction of the nightstand, Mr. Carter emphasized the proper filling, sanding, glazing, and staining techniques used to produce a quality furniture finish on our nightstands. A mistake in any of these processes could ruin the nightstand we had worked so hard to build. Panels were also finished by the proper techniques.

After five weeks, the furniture manufacturing students were ready for a summer vacation. The wood tech. students had one week to go. In order to have off on the Fourth of July, five days of work was completed in three days. Men from the extension service briefed on job orientation. Motion and time study, economic analysis methods, and lumber yield was presented. Mr. Carter added a lecture in industrial relations. The wood tech. students packed the nightstands and left at four o'clock on July 3rd. Students left to go to different parts of the state and country to apply the knowledge obtained during the summer practicum of 1968.

PAUL SMITH'S COLLEGE

By JAMES SITTS

"A College for Franklin County" was the headline on most Adirondack newspapers in 1937. Phelps Smith had directed in his will that a "college of higher education" be established on his extensive estate and that it be named Paul Smith's College of Arts and Sciences in memory of his father, Paul Smith.

There was a span of many years before the College actually opened its doors to students, but in 1946 181 students made the home of the "leaning pine" their home for two years. The College has continued to grow each year and today it boasts an enrollment of over 1,000 students.

Today the College is a great deal different in appearance than it was in 1946. Originally the College took up its quarters in the buildings of Paul's old resort hotel. Over the years several of these buildings have been destroyed, many of them in spectacular fires. Paul Smith's College is now housed in many new structures, including a new administration building, four new dorms and a new classroom, all of which have been built in the last few years.

THE COEUR D'ALENE NATIONAL FOREST, IDAHO

By CRAIG DITMAN

When I got to Shoshone Station, Coeur d'Alene National Forest, Idaho, the first person I met was Roy Brogden, a 1963 State grad. His clever reminiscences of some of his professors here helped me feel right at home.

The topography in northern Idaho is quite similar to that of western North Carolina. The mountains range from 4,500 to 6,500 feet in height and seem to be rather old and worn.

Shoshone Station is situated on the Coeur d'Alene River, which is the home of some impressively big cutthroat trout. It's quite a thrill to hook into one of these native trout which put the stocked rainbows and eastern brookies to shame.

The mountain lakes in the Bitterroot Range also provide some exciting fishing. One hot Sunday, two other students and I hiked over into Montana to fish in a beautiful little lake tucked away between three peaks. Within two hours we had caught and returned more than 100 pretty trout.

The game situation is unbelievable! Within three weeks of my arrival I had seen more elk and mule deer than I believed existed anywhere. Black bears could be seen almost daily and occasionally made their way into camp.

The weather also impressed me. We were still having occasional snow in July, and enough remained on the ground from the previous winter to bog down a pickup. Afternoon temperatures sometimes rose to over 100 degrees, but the nights were pleasantly cool.

I was a little disappointed in the size of the timber that was being cut on the Coeur d'Alene. Being a naive eastern boy, I expected to see logging trucks rolling out of the hills with 40,000 pound loads consisting of three or four logs. This wasn't the case on the Coeur d'Alene where the logs probably averaged 20 to 25 inches at the butt. Timber species included Douglas-fir, grand fir, western white pine and englemann spruce.

I was exposed to a variety of forestry operations. I marked timber for thinning, took stand inventory, mapped new roads and stand boundaries, laid out planting boundaries, ran check cruises on thinning and planting contracts, helped a bulldozer operator put in fire lines around clearcuts and participated in fire control.

The fire situation on the Coeur d'Alene was right good in 1968. The major fire season was only one week long and consisted of only five or six fires, none much larger than 40 acres. The most surprising thing I learned about fire control was that when the experienced guys said we were going to crawl around on our hands and knees to feel for sparks, they really meant it!

After leaving Idaho for the summer I traveled out to the coast and back through the beautiful ponderosa pine forests of Oregon to see State alumnus Stan Bingham and ol' Dufus who were in the Ochoco National Forest.

After spending one summer in the West, I don't think I'll ever be quite satisfied until I have a permanent job there, preferably with the U. S. Forest Service.

SUMMER IN THE SIERRAS

By TERENCE FITZ-SIMONS

The Sierra National Forest, situated just south of Yosemite National Park in the middle of the Sierra-Nevada range, is big and beautiful country. The Minarets district, where Bob Mooney and I worked, is the farthest removed district from any town. The district is named for a craggy, rocky mountain called The Minarets Peaks. The Minarets are slightly lower in altitude than nearby Mt. Ritter which is over 14,000 feet high.

Here I was to learn the idiosyncrasies of an ancient Homelite, the art of T.S.I., and how to avoid receiving a crispy-critter award while fighting fire. All this without the aid of female companionship. It was so bad that any creature of proper classification that made it so far back into the woods was beautiful!

Our crew, consisting of six representatives of eastern universities, conducted T.S.I. operations, engaged in rattlesnake hunts, fought fires, took pictures of a few "Hell's Angels," and generally had a lot of fun. We were led by a Mexican named Ernie. Ernie preferred to be called a Rio-Grande-surfer. He taught us the finer points of his native language along with the skills of T.S.I. Our job was to follow logging operations, cutting down anything that the logging crew left.

Fighting fire was quite an experience. Often we worked with convicts who were a pretty good bunch of guys. They were usually in good humor even though they were paid a grand total of fifty cents a day.

One high point in the summer was a weekend trip on horseback into the John Muir Wilderness area. It was great, but it inflicted much pain upon my sitting apparatus.

A SUMMER AS A URP AT NCSU

By DAVIS GERWIG

The Undergraduate Research Project (URP) sponsored by the National Science Foundation is an opportunity for students bound for graduate study to become familiar with the procedures of research. The participants, Sarah Sheffield, Andy Nicholas, Doug Kath, and myself were allowed to work under the guidance of faculty members who had research projects that corresponded to our individual interests. We each developed our projects from the initial planning stages to the actual completion and analyses of the 12 weeks allowed. Throughout the 12 weeks we tried to attend seminars that would prepare us for research work and familiarize us with each other's projects and problems, but unfortunately, as work progressed on our projects, we found it difficult to find time to meet.

My area of interest was watershed management, and by chance Dr. Maki was initiating a study on the effect of changing land uses on the Lake Michie watershed. I was to construct four weirs, two on Hill Forest for the Lake Michie study and two on Schenck Forest for research and teaching purposes, calibrate them and start taking streamflow data from them. For two weeks I went through the literature concerning watershed management and the construction and operation of weirs and studying sites for construction. After two weeks of reading, I was impatient to get out in the field but I had not realized how well off I had been.

There is an art to concrete construction, and Doug Kath and I learned

the art by hard work and sweat. Our first project was to build a coffer dam and flume to divert the stream so that we could build our first weir. We failed! Our coffer dam had more holes in it than a sprinkler hose; so our flume never carried water. With the help of a small pump that did not grind up pebbles and our ability to work waist-deep in water and knee-deep in North Carolina mud, we dug the dam's foundation. Then with the help of Larry Jervis, we learned the art of form building. Four weeks after our flame failure we were ready to pour concrete. On hand were several white-collar workers whose suggestions throughout the previous four weeks of sweat were like an offer of beer to a Southern Baptist, only I could have used the beer. When the 5½ cubic yards of concrete started flowing, everyone pitched in and helped. As a result, a mass of concrete in the form of a weir and christened by Dr. Steensen, "Acting Captain," stands on Block E of Hill Forest.

Doug and I became very proficient in weir construction. We built weirs in some of the most God-forsaken country in North Carolina, so we also got involved in road building and bridge construction to get in our materials and the concrete trucks. Man power was "in" last summer, so we recruited some ex-summer camp boys and turned out a weir a week. The last weir had as many bulges in it as the first, but as I told Dr. Maki, "It was meant to be that way."

On the whole I had a very eye-opening summer. I learned that there is more to research than collecting data and running it through a statistical analysis. I also discovered that I do not want to work in the South for one must consume great quantities of beer to keep one's sanity in the heat and humidity of summer. I was never so glad when we finished pouring concrete on the last weir in the mosquito hole, and my man arrived with cold beer for the white slave gang.

SUMMER MILL EXPERIENCE REPORT

By JONATHAN W. SHELPER

During the summer months of 1968 I was employed by the St. Regis Paper Company Kraft Mill in Jacksonville, Florida, to work on Technical Department summer projects. These projects are designed to place certain suspicious areas or systems of the mill under close scrutiny in order to determine the efficiency of the equipment being used or the quality of the materials being processed. My particular work revolved around four major investigations: (1) a chip quality investigation with the objective of improving the quality of pine and hardwood chips received from various wood suppliers over the Florida, Georgia, and South Carolina area, with respect to chip size, bark percentage, and fines content; (2) a study of the recovery system of tall oil from sulfate black liquor during evaporation and prior to recovery furnace ignition. Principal concern centered around determining tall oil soap skimmer efficiencies as analyzed for total solids and tall oil potential by the "Buckeye" method of Saltsman and Kuiken; (3) a statistical analysis of size emulsion solids tests to determine the feasibility of implementing an automatic size emulsion controller system for each paper machine system; and (4) a study of calcium in black liquor, white liquor, green liquor, and brown stock washer pulp, as determined by gravimetric and spectrophotometric methods.

This summer work experience proved to be stimulating, educational, and financially rewarding.

SUMMER EMPLOYMENT WITH THE MEAD CORPORATION IN SYLVA, NORTH CAROLINA

By PHIL SLAGLE

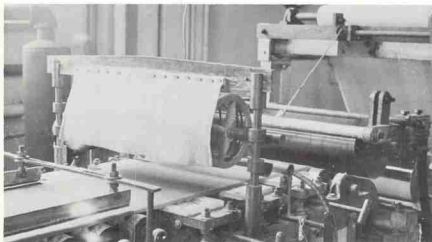
In 1967, the Mead Corporation's Sylva Division mill—a 300 tons-per-day corrugating media mill—started up a new continuous, ammonia-based, semi-chemical pulp mill and effluent disposal system. This new mill replaced an obsolete batch NSSC system, and the new liquor burning furnace greatly modernized the mill's steam plant.

Prior to 1967 most of the mill's waste products had been dumped into a nearby creek. This effluent eventually found its way into the large Fontana Lake (near the Great Smokey Mountains National Park) and over the years began to have an adverse effect on biological activity there. With the new process, the liquor, the wood residue, and the other potential pollutants are all burned. Thus, virtually no pollutants now ever find their way into the lake.

Since the summer of 1968 was the first period of low river flow not significantly polluted by the mill's effluents, much background data and research was needed.

My job was to collect, summarize, and record daily river and effluent flows in and around the mill. I aided Corporate Research Engineers in making extensive chemical and biological studies of the Tuckasegee River and Fontana Lake, and worked on an in-plant sewer survey to determine the chief sources of pollution within the mill.

This work provided me with a unique opportunity to study the new, modern pulping equipment and techniques, and also gave me a chance to compare these modern facilities with the old pulp mill, which still remained at the mill site. The men at the Sylva Division mill of Mead Corporation aided me greatly in my work and in compiling information for my summer mill report.



Robertson Paper Machine

PAPERMAKING IN THE NETHERLANDS

By DAVID E. HERLT

This past summer was spent by one student in the pulp and paper curriculum as an employee for Van Gelder Zonen paper company in Renkum, the Netherlands.

Van Gelder Zonen is one of the three largest paper makers in the European Common Market and the major producer in the Netherlands. With seven thousand employees, thirty-one paper machines and a yearly productive capacity of about four hundred thousand metric tons, it manufactures papers of practically every kind in modern use; printing and writing papers, machine coated papers, newsprint and both standard and converted wrapping papers.

The Renkum management operates two paper mills nearly one mile apart with a total yearly production of one hundred twenty thousand metric tons. The mill on the northern bank of the river Rhine is a two machine newsprint mill, the other, a three machine middle fine paper mill producing super calendered rotogravure paper, coated book paper and printing and writing papers. Adjacent to the newsprint mill is a ground-wood mill, serving both papermills. The two mills are connected by power transmission lines, cables and pipelines for groundwood.

Undoubtedly the most interesting aspect of my employment there was the opportunity to live and work with the Dutch people. Very few of the employees lived outside of Renkum and the accepted mode of transportation to and from work was by bicycle. Many of the workers, especially those working near the paper machines, habitually wear the famous wooden shoes. These shoes are suitable for such work as they are waterproof, durable and quite cheap (\$1.50 a pair).

The personnel at Van Gelder Zonen, from the persons in the upper echelon to those loading the grinders were determined to make my stay enjoyable. Before many days had passed my wife and I were invited to promotion parties, retirement parties, people's homes, etc.

My hours of employment were from 8:15 a.m. to 5:30 p.m. five days a week and I was connected with the technical staff. My first project was to take various tests of paper as it came off one of the paper machines and see if I could determine a correlation between these measurements and a defect in the paper rolls. After running the test for approximately four weeks I submitted a report on my finding. The second project was to determine a method to measure the amount of pulp pumped from the groundwood mill to the Renkum I mill and compare the results with the weight of the finished product.

The experience I have gained at Van Gelder Zonen will certainly benefit me in the future and I am especially grateful that such an opportunity was presented me. It was a remarkable summer and my only regret is that it came to an end so quickly.

A SUMMER IN FRANCE

By RAMSAY SMITH

A summer in France! It sounded incredible. I had my summer practicum with five weeks of class and ten weeks employment in a wood-using plant ahead of me.

Monsieur de Montgascon, French forest landowner and head of French Forest Cooperative had a son in Forestry School in France. He had written the Southeastern Forest Experiment Station to see if a Forester over here had a son in Forestry School and an exchange could be worked out. That's the way it started—Alain de Montgascon spent the summer of 1967 with me, studying forestry in the South and I spent a month of the 1968 summer with him in France, learning that forestry over there is a cultural operation quite different than we are familiar with in our millions of acres of wild woodlands. This served as my ten week employment with the consent and tolerance of Dean Preston and Professor Carter.

Soon after I arrived in France, Alain took me around their 1800 acre forest. I was amazed to see how closely their tree plantations resemble our row crops like corn. Most of their pine and poplar plantations are planted from selected seeds by a seed planter. They are well fertilized and the soil is turned annually to keep the weeds down. The land is divided into plots so the different species and their ages can be kept track of easily.

While traveling, Alain and I had a chance to visit Monsieur Cassin, a nice old gentleman that produces Cognac barrel staves in a small shed behind his country home. Monsieur Cassin starts his work by cutting a four foot section from an European oak log, approximately two feet in diameter. Using a sledge hammer and wedge, he splits each log section into eight pieces. After trimming the bark from each piece on a table saw, he expertly uses a maul and froe to split each piece in half. He uses a tool much like our draw knife, but with only one handle, to trim off knots and non-uniform edges. The finished slat is taken outside and air dried for six months before being picked up by the cognac company. One very interesting thing I found out was that barrel staves have to be split and not sawn. If sawn, many pores would occur on the face of the stave, thereby letting air into the barrel. Alain and I were convinced of Monsieur Cassin's efficiency after tasting some cognac from his personally made barrels.

Alain and I also had a chance to visit a saw mill, Troncais Lumber Company. I was told before reaching the lumber company that Troncais was one of the largest in France. To my surprise, upon arriving I found an operation similar to a small band mill operation in the States. Later I found out it was just one of several of Troncais' operations. Troncais uses a band saw to cut the logs into boards and a table saw to trim bark and edge the boards to proper widths. The lumber is air dried for three months before being kiln dried in one of their eight kilns, each having a capacity of 25 cu. meters. A portion of their production, the quality logs, are live sawn and stacked as they come from the saw. This portion is sold by the log instead of by the cubic meter like the rest of the lumber.

The entire trip was very unusual and rewarding and quite different from from what I expect to experience next summer working in a forest industry on the West Coast.

JUST OUTSIDE OF BROOKLYN

By J. V. BRIEL

For two days I frantically searched the map of Long Island for some obscure hamlet by the name of Maspeth, hoping to find it on the eastern end—known for vacationing single girls, sand, sun, salt seas, etc. This man was definitely not staying in Gritland for the rest of the summer; summer

work experience was going to be a blast. At the end of Summer Practicum, I was informed that this what-I-thought-summer-paradise was "just outside of Brooklyn." Somewhat disillusioned, I still had a glimmer of hope left. Well, Jones Beach and such were just outside of Brooklyn, too—a little crowded maybe, but not too bad.

When I arrived at work, I found the plant about five blocks (discounting the East River) from Manhattan in an industrial section of the Queens. M. Gerber Construction Co., Inc., is one of the most modern architectural wood-working plants, producing a high variety of items from store fixtures to executive office interiors.

My actual job consisted of working on a number of projects under the supervision of Chester Gerber, production executive. I deeply appreciated the experience and guidance I received at a responsible position. One of the most rewarding experiences was getting out of the plant and talking with the "authorities" about my special problems in the projects.

Though my first hopes for a swinging summer had been snuffed out, I still managed to take care of my needs. I found a room one-half block from St. John's University and nearby a favorite college tavern. With these modern conveniences close by, my summer work experience indeed turned out to be an experience at times.

INTERNSHIP IN A COUNTY PARK SYSTEM

By WILLIAM R. LEMMONS

A county park system such as the Fairfax County Park Authority in Virginia has under its management almost every kind of park situation and as a result almost every kind of problem to deal with everyday as part of its routine.

As an intern for nine weeks I was put into almost every kind of park situation from an amusement park at Lake Fairfax to a natural park at Burke Lake, from a golf course to a neighborhood park, and from a quiet picnic area on the Potomac River to a fairground for a county horse show.

My duties ranged from picnic ground clean up to sand trap weeding, from park manager to steam boat driver, and from office observer to attending evening lectures.

I was fortunate to be placed in this particular situation so that I could see first hand the duties and responsibilities of a park system made up of so many diversified operations. I was also fortunate to be placed in a system where the staff was willing to spend their time after office hours helping the interns understand what was going on in the department. For example, once or twice a week we would have evening sessions on a particular subject dealing with some phase of park development or operation. Some of these were land appraisal and acquisition, master planning, the duties of the director, budgeting, government aid, conservation, and others of a similar nature.

One other aspect of the summer program was the privilege of attending not only the park authorities' meetings but also the different branches of government authority to see first hand how policy is made, thus bringing together the total picture of government as it concerns the park administration process.

In short as an intern in this particular program of internship I was exposed or coached in every phase of park development and operation.

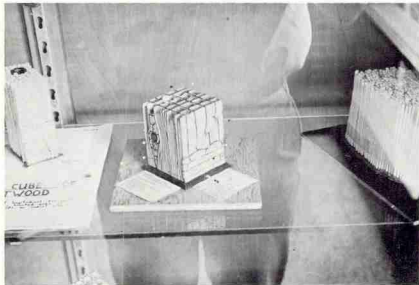
RESEARCH

By DAVID PARKER

After the summer practicum, I spent the remaining ten weeks working on a research project sponsored by the National Science Foundation and supervised by Dr. C. A. Hart. During the first two weeks, I spent most of my time familiarizing myself with computer programming and moisture-wood relationships.

At the beginning of the third week the experiment began. First, we cut $\frac{1}{2}$ inch white oak and yellow poplar into discs. These discs, we sealed over plastic cups which contained a saturated salt solution. We set these cups into the amino unit where the constant humidity and temperature provided stable EMC's on each face of the disc. The vapor pressure over a saturated salt solution is constant as long as temperature remains constant, so we had constant conditions on each side of the disc. Then we allowed the discs to reach steady state (when drying rate is constant). Throughout the equalization period we weighed the cups daily and punched these weights on computer cards. The computer calculated the drying rate of each sample. When drying rates were constant for several weighings, we sliced up the sample and obtained the wet weight and oven-dry weight of each slice. The computer used this data to plot the moisture content with the distance of the slice into the sample. This produced a graphical representation of the moisture gradient through the sample disc. I repeated this experiment again with green wood. The results were to be used in studying drying characteristics of white oak.

This project was challenging and very interesting. I gained an insight into how research is carried out and the value courses like math and chemistry in the Wood Technology curriculum.



Cube of softwood

INTERNSHIP IN NASHVILLE, TENNESSEE

By JIM B. HALLSEY

After two days of travel across the Appalachian Mountains, the three of us, Butch McSwain, Bill Flournoy, and I, finally burst into the metropolis of Nashville, Tennessee. Our little caravan of cars came on the scene at about 1 p.m. (CDT!) on Sunday, June 2. Needless to say the metropolitan community of 400,000 hadn't turned out to greet us with brass bands. The few people that were evident in the downtown area seemed to be more concerned with getting over the effects of the previous Saturday night than heralding the arrival of three fresh and eager recreation seniors from North Carolina State University in Raleigh. ("Where's Raleigh?")

Without a doubt our first impression of Nashville was quite disheartening. "This is where I came to spend the nine weeks of my recreation internship? It's going to be a long summer!"

Due to the fact that our housing arrangements had been loused up, we spent the first night in a Holiday Inn. Who said they felt like a horse's . . . ?

Monday we presented ourselves at the park offices at Centennial Park and soon things got rolling. It didn't take us long to realize that the opportunities being offered to us by the department would be very valuable in our chosen fields of endeavor. Everyone in the department went out of their way to help us get settled and feel at home. In fact, Mr. Elmore, the director, gave us the first afternoon off to find an apartment.

It would take a book to describe the experiences we had during the summer, both on and off the job. To simplify them, our internship duties ranged from administration and planning to maintenance, horticulture, pool operations, playgrounds, and community centers. We even got some off-time experience with the Park Police. (Raiding parkers was never like this in Graham, N. C.)

Our civilian experiences ranged from visiting many of the areas and night spots around Nashville to developing new survival methods for coping with the 85° nights and a constant humidity of 90+%. Would you believe one of our neighbors was under investigation for arson? There was almost never a dull moment!

These are just a few of the many and varied experiences we had that made our summer internship one of the most valuable, enjoyable, and unusual times in each one of our lives. To the staff and personnel of the Nashville Recreation and Parks Department, we will be forever grateful.

At the end of our nine weeks, we were ready for the familiar faces of North Carolina and home. Bill and I left at 3 p.m. CDT on Saturday following our last work day. (Butch stayed on a few days to 'rest.') Six hundred miles and twelve hours later, we were home. You'd be surprised at what a VW and a Mayflower will do in the mountains!



TREASURER'S REPORT 1967-1968

INCOME

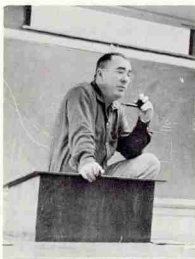
132 Members @ \$3.00	\$ 396.00
Contributions to Slocum Fund	152.00
Contributions to Preston Portrait Fund	275.00
Insurance Refund from Summer Camp	78.27
Total	\$ 901.27

EXPENSE

Printing Newsletter	100.31
Postage for Newsletter	96.00
Postage for PINETUM	50.96
132 Copies PINETUM @ \$2.31/copy	304.92
Total	\$ 552.19

STATEMENT OF ACCOUNTS

Hofmann Loan Fund	2500.00
Slocum Scholarship Fund	
Beginning Balance	1293.98
Added this year	152.00
Total	\$1445.98
Preston Portrait Fund	\$ 275.00



NOTA BENE

THIS IS TO GIVE YOU ADVANCE NOTICE OF A PROPOSED "BLAST" FOR ALL ALUMNI A YEAR FROM THIS FALL AT THE TIME OF THE DEDICATION OF THE NEW FORESTRY BUILDING. EDDIE JACKSON IS CHAIRMAN OF A COMMITTEE TO PLAN THE AFFAIR AND AS DETAILS ARE DEVELOPED YOU WILL BE INFORMED. RESERVE A WEEKEND FOR FOOTBALL, SQUEEZINS, UNVEILINGS, PIT-COOKED BUFFALO (MAYBE) AND A DANDY TIME.

ALUMNI NEWS

1930

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

"All my classmates in USFS have retired—Evans, Brown and Morris. I'm still enjoying my assignment as General Inspector and hope to stick around for a few more years."

MORRIS, D. J., Retired

"Have retired and moved to 102 Baldwin Court, Port Charlotte, Fla. 33950 . . . still get to the Forestry Foundation Board meetings . . . will attend All Foundations Day."

1931

ARTMAN, J. O., Tennessee Valley Authority

1932

COOPER, W. E., Virginis Forests, Inc.

"Now have a grandson to go along with my two granddaughters, which proves that my one and only son is better at somethings than his dad."

GRUMBINE, A. A., U. S. Forest Service

KERST, J. J., Lower Mississippi Valley Div., Corps of Engineers

"Saw Walt Smith recently in Asheville—hope to see the School after new building is finished."

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

"It is good to see construction work on the new forestry building on Western Blvd. The Newsletter had reports of great progress—keep up the good work!"

TILLMAN, P. W., Division of Forestry, N. C. Dept. of Conservation and Development

1933

HAFER, A. B., Hafer and Gelbert Assoc., Inc.

"Consultants of N. C. have organized this year. We need everyone listed in the PINETUM. Foresters get around the country and we need a way of finding each other. We also need more reports such as the Newsletter so we may keep up with School activities."

1934

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

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

"Saw Dick Wood '33 in Asheville last July . . . enjoyed talking with Art Grumbine '32 and Dr. Maki on the U.S. Forest Service tour of forestry school deans. I had the pleasure of representing LSU."

1935

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

JACKSON, G. E., Consulting Forester

"A granddaughter arrived in July 1968; Nancy Jackson Weatherly is doing fine. Everything is secondary . . . why not have homecoming for all the classes when the new Forestry Building is dedicated?"

1936

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

"Doing the same things I've been doing for 33 years . . . revising and redressing them to fit the occasion . . . visited the School while attending Forest Soils Conference . . . things have really changed."

VASS, J. S., Master's Carpet Corp.

"Our son, John, Jr., will graduate in June from Univ. of Chattanooga, B.S. in Education—on Dean's List . . . oldest daughter, Jane, is a junior at Chattanooga High School, youngest daughter, Frances, is in the ninth grade at Lookout Junior High . . . glad to hear the good news concerning the School."

1937

MATHEWSON, Clarke, S. Regis Paper Company

1938

HUBBARD, J. B., N. C. Forest Service

SMITH, G. E., Jr., Soil Conservation Service, USDA

"Regards to all."

WATTS, N. B., Director, Dept. of Student Housing, N. C. State University

1939

JOLLAY, T. M., Forestry Consultant
WRIGHT, C. N., Owner, Wright's Pulpwood Agency, Inc.

1940

HARLEY, B. R., Turnell and Morgan, Inc.

1941

CHAMBLEE, G. V., N. C. Forest Service
(Ed. note: Graham is now "working" out of the Raleigh Office.)
HARRIS, T. G., The Chesapeake Corp. of Virginia
PICKET, W. C., FCX, Inc.

"After 21 years as manager of FCX Farm Chemical Dept. and living in Statesville, N. C., have been moved to Raleigh as director of FCX Agronomy Services."

1942

HOFMANN, J. G., Albemarle Paper Company
"Albemarle Paper is now part of Hoerner-Waldorf so we are looking forward to continued progress on the Hofmann Forest."

1943

1944

HOLCOMBE, R. A., Natinal Forest Products Association
"Looking forward to seeing the new forestry building . . . will try to make our 25th(!) class reunion at State . . . what changes have taken place since 1944! Regards to all."

1945

1946

1947

JOHNSON, J. B., Jr., Self-employed
"Am enjoying the outdoor life of a grading contractor and frequent jaunts to the coast for fishing. Of my four children, two are in the School of Forest Resources; a son who is a senior in Forestry, and a daughter who is a secretary in the Development of Wood and Paper Science."

1948

BLACKSTOCK, C. E., Bureau of Outdoor Recreation, USDI
FRANKLIN, B. D., U. S. Forest Service
"We lost our 8 year old son, Buster, in September; he had a brain tumor. Our two girls and Eloise are fine. News from NCSU is good." (Ed. note: Our deepest heart-felt sympathy to the Franklins in their great loss.)
ICARD, T. F., Icard, Merrill, Cullis, Timm & Holroyd, Attorneys at Law

1949

ALTMAN, J. A., American Pulpwood Association
BOYCE, S. G., U. S. Forest Service
CRAFT, A. C., West Virginia Pulp and Paper Co.
WOODS, Frank W., School of Forestry, Duke University
YANCEY, T. E., Virginia Division of Forestry

1950

BRANK, G. P., Glenn P. Brank Insurance Agency
GLUNT, T. E., Diamond International Corp.
PASCHAL, W. J., Post Engineer, Fort Bragg, N. C.
RANKIN, J. R., Self-employed, Pulpwood Dealer
RHYNE, T. S., Jr., N. C. Division of Forestry

1951

MASTEN, J. C., Acme Wood Corp.
RENFRO, J. F., Container Corporation of America
SCHOLTES, W. E., Albemarle Paper Co.

1952

JACKSON, J. V., Virginia Division of Forestry
PERONI, G. P., Assoc. Professor, Paul Smith's College
"In my 16th year with P. S. C. Forestry Department . . . Master's degree from St. Lawrence Univ. 1963." (Ed note: We get some very fine transfer students from Paul Smith's College.)
ROSS, V. R., Ross Associates, Inc. (President)

1953

BENNETT, J. W., U. S. Forest Service
"Still fighting the war on poverty at Pine Knot CCC. To paraphrase Joyce Kilmer— 'I think that I shall never see . . . a tree.'
CRUTCHFIELD, Doug, West Virginia Pulp and Paper
"Good to hear the new building is underway . . . regards to all."
WOLF, D. J., Ross Associates, Inc.

1954

DERRO, J. J., Jr., Pentucket Regional School District, West Newbury, Mass.
GROVES, Frank, Telfair Timber Co., Inc.
LANGLEY, W. R., Jr., Federal Land Bank of Columbia
SEWELL, C. S., Georgia Pacific Corp.
"Finally got back to the ole North State after 11 years in Georgia and Florida. Moved to Aohsie in June to work in land management for Georgia Pacific."
WRIGHT, E. B., Jr., U. S. Forest Service

1955

- HARDY, P. L., Jr.**, Self-employed Consultant
KING, D. B., The Singer Co., Power Tool Div.
MALMQUIST, Quentin, Norwich University
 "Made Director of Bureau of Industrial Research at Norwich University Sept. 1, 1968, New daughter, Elizabeth Olive, October '68 along with two sons, Walter August, 12, and Cliff Ward, 8."
ROBINSON, J. F., Hiwassee Land Company
 "Joined Hiwassee July 1, 1968 after finishing requirements for M.S. at the University of Tennessee specializing in Tree Improvement."

1956

- DOZIER, W. B.**, Consulting Forester
CALDWELL, H. T., Tennessee Div. of Forestry
 "Two girls now, age 2 and 4—still in Knoxville, mainly fire control—1968 saw our worst spring season and best fall fire season (number of fires) in history. Come to see us."
KILLIAN, L. A., N. C. Forest Service
 "Moved to Raleigh office last year—now stay on the road most of the time."

1957

- DUCKWORTH, C. A.**, Wilmon Timberlands
GIBBS, G. S., U. S. Forest Service
 "Mary, the boys and I are still plugging away here in Asheville. After 7 years in Florida the mountains and particularly N. C. are mighty welcome—enjoying our return more all the time. I'm in and out of Raleigh regularly." (Ed. note: George has informed us that Joe Emory '57 is with a commercial airline after 8 years in the USAF and his address is: 80 School Road, Asheville, N. C. 28806. His duty station is New York City.)
HUDSON, S. T., Jr., Vermont Department of Forests and Parks
KELLEY, J. S., U. S. Forest Service
 "Finally took a Canadian fishing trip this past September after 15 years of thinking about it. Traveled 100 miles north of North Bay and fished on the Montreal River. The fishing was great."
MASASCHI, J. E., Plant Manager, U. S. Plywood, in Galveston, Texas
 (Ed. Note: From a U. S. Plywood publication we have learned that John is now Galveston Plant Manager. John began his USP career in Orangeburg, S. C. as a Production Management Trainee in 1960, and following training in the many facets of manufacturing, progressed through managerial assignments in the Orangeburg plant. Prior to his assignment to the Galveston plant he was Manager of Product Methods and Engineering. The Galveston plant manufactures prefinished Lauan paneling and is a part of the Orangeburg Division. John, wife Susan, and their three children reside in Galveston, Texas.)
STEVENS, W. R., Riegel Paper Corporation
 "Moved to Lumberton, N. C. from Burgaw two years ago—hello to all the Profs."
TAYLOR, R. P., Union Camp Corp.

1958

- ROBERTS, J. P.**, Schmidt, Roberts and Parke, Inc.
SIMMONS, R. C., South Carolina State Commission of Forestry

1959

- BONNER, L. D.**, Ph.D., candidate (wood anatomy) N. C. State University
DODGE, O. C., Virginia Electric and Power Co., Senior Forester
 "Still plugging away for VEPC . . . my travels take me into the eastern part of N. C. which is serviced by this utility . . . In my trips to the Mt. Storm, West Virginia operation I have run into some of my former classmates who are working for West Virginia Pulp and Paper . . . sure is nice to see old friends . . . hope to get down and see what is going on at the campus sometime during the spring. Best wishes to all."
MENATT, J. D., U. S. Forest Products Laboratory, Madison
 "My current work at FPL deals with development of engineering design data for hardwood. Am preparing a paper on this for 1969 FPRS meetings. We are expecting our 3rd child in January. (Ed. Note: It was a girl! Susan Lynne) have 2 boys now. Our soccer team won state league title this year . . . I'm still playing. Looking forward to receiving PINETUM. Glad to hear construction on new forestry building is underway . . . recently hit thin ice skating to work across Lake Mendota, fell through, 7" above, chilly!"
FLOWMAN, J. D., Consulting Forester
SUMMERVILLE, K. O., N. C. Forest Service
 "Have recently been given the administrative responsibility of two nurseries in eastern N. C. in addition to the development of the Division's Tree Improvement program in eastern N. C. The N. C. Div. of Forestry has now included commercial hardwood tree species in our TI program."
SUMNER, L. B., U. S. Forest Service
 "Winding up my second year as Regional Cadastral Engineer with mixed feelings. There has been too much swivel chair and too little field work. The property boundary problems on the California National Forests are most challenging (would you believe frustrating!) . . . the new Sipe-Sumner Vernier Surveyor's Compass mentioned last year will soon be a reality. Have held the tool-room working model in my hands not long ago. The production model should be available from a certain old-line American transit maker by next July. For performance and durability, it will beat any open-sight magnetic compass put on the market in the past 40 years."

TABOR, C. A., U. S. Forest Service

"We have moved into a house in the new city of Columbia and hope friends from past years will stop by when in the Washington-Baltimore area. Work at the lab is progressing and we are beginning some interesting experiments with our apical meristem cultures."

WELCH, R. V., Union Camp Corporation

"Still in the Research Department of Union Camp . . . one wife and one boy, now burning up the first grade."

1960

BOST, R. M., Duke Power Company, Forestry Department

"Daughter, Kelly Elizabeth, born Sept. 1968."

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

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

CAWTHORNE, W. G., The Mead Corporation

LOVIN, H. G., Catawba Timber Company

SCOTT, J. M., General Foods Corp., Post Division

SELDEN, C. W., III, U. S. Plywood—Champion Papers, Inc.

"Separated from the USAF in September . . . working as forester in the Washington, Ga. district of Champion Papers . . . nice to be back in forestry and out of the military after six long years."

1961

BALL, W. R., Wayne Community College

CUNINGHAM, Henry, J. W. Jones Lumber Company

"Buying logs for the lumber company is very interesting work."

ECKSTEIN, L. W., Jr., U. S. Forest Service

GRIMSLEY, D. L., U. S. Army Corps of Engineers

KENDALL, W. A., Southland Timber Corporation

"Now have very active son 10 months old, Worth, Jr. (Alex); daughter, Lee, (4 years) is in kindergarten—have really enjoyed working in Augusta and Georgia."

LANGSTON, E. H., Major, U. S. Army

"Hard at work on my MBA at Pacific Lutheran University, Tacoma, Washington. This is in addition to my full-time job of a personnel officer."

PRICE, A. L., American Airlines

ROYE, Earl, Union Camp Corporation

"Things are looking real good in both the paper and building products business. Future continues to look bright with a tremendous challenge for foresters."

WELLS, G. R., Department of Forestry, University of Tennessee

1962

BRIDGERS, G. B., Albemarle Paper Co.

BULLARD, R. P., U. S. Forest Service

CONNOR, B. W., Cox Woodlands Company

"We have a son, 3, and a 'papa's delight' daughter, born Sept. 1968 . . . will look forward to the get-together for the forestry building."

GOGGANS, J. F., Auburn University, Dept. of Forestry

HUFFMAN, Tom, U. S. Forest Service

1963

BROGDEN, R. O., Jr., U. S. Forest Service

CONNER, B. J., Graduate Student, Michigan State University

"Completing requirements for a Ph.D. at MSU in the Dept. of Forestry."

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

CROSS, L. C., Clark Equipment Co.

DENNIS, M. U., Union Camp Corp.

EAKES, J. C., Ketchikan Pulp Co., Alaska

JACKSON, L. K., Tennessee Valley Authority

"All goes well here. With the execution of a 10-year timber sale contract with Longleaf Lumber Co., Georgia, we'll be able to intensify our management practices."

MANNING, H. L., Jr., U. S. Forest Service

"Effective last June promoted to Fire Control-Silvicultural Assistant . . . looks like we'll be in Avery, Idaho a couple more years . . . the only elk hunting story I have to tell is 'one miss.'"

RUST, C. W., U. S. Forest Service

"Still on the good old Los Padres N. F. taking care of the Condor and the oil wells. Fortunately, fire season was not so bad during 1968. CY68 recreation use totaled 400,000 visitor days. Teaching multiple-use management in southern California is quite a feat. The majority of the public feel preservation is a vital part of conservation and that multiple use means certain depletion of our natural resources. Time for foresters to rally! Hope to see the entire School staff when new building is dedicated."

SMITH, G. E., Piedmont Woodyards

WEILLER, D. H., N. C. Forest Service

1964

BARTELT, R. T., Lt., U. S. Navy

"Will get out of Navy at approximately the same time I receive my MBA, Dec. 1965."

DYSON, P. J., School of Forest Resources, Univ. of Georgia

"Many thanks for Newsletter—our family has increased by 2 young ladies, ages 6 and 8 . . . a new experience for us."

JOENSUU, P. I., LTJG, USN

(Ed. note: Joensuu will get discharged next July.)

LEE, J. C., Jr., Westvaco

"I am pleased with the progress of our fine School and in many ways I miss the stimulating associations which I enjoyed while in Raleigh—frankly, I'm envious!"

SCHMITT, D. M., U. S. Forest Service

SMITH, R. C., U. S. Forest Service

1965

DUCKWORTH, C. J., J. E. Hobbs, Consulting Forester

"Good to hear of the continued growth and outstanding achievements at the School. Would enjoy hearing from some of the Class of '65."

DUFFY, W. C., Jr., Graduate School (MBA), Louisiana State Univ.

FISHER, H. T., U. S. Forest Service

HANN, R. A., U. S. Forest Service, Forest Products Lab.

HARRIS, T. G., Jr., MBA candidate Dec. 1969, Univ. of Penn.

JEFFRIES, Jon, Graduate School, School of Forestry, Duke University

"My good fortune continues. I am still in graduate school at Duke University and expect to finish in the Spring 1969. Last June I married the former Virginia Jones of Beaufort, N. C. Many thanks to those of the Class of '65 that were able to attend the wedding. Regards to all."

MAXWELL, G. H., Catawba Timber Co.

SHOTWELL, Jim, Union-Camp Corporation

"Still in land management but I do some procurement work occasionally—hello to Kenneth Close."

1966

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

"Back to land acquisition again."

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

KAUFMAN, G. J., Union Camp Corp.

ROBINSON, H. S., Captain, U. S. Army

"Have just returned from Vietnam where I served as a combat assault helicopter platoon leader—think I have returned sound of everything but good sense for I will continue to fly helicopters until my separation from the Army next August. Will spend my remaining months in service at Ft. Bragg."

ROGERS, W. W., West Virginia Pulp and Paper Company

"Working for Westvaco in Market Research is an exciting new job. I understand that our Wood Procurement Dept. in Charleston is made up entirely of NCSU Forestry graduates, in addition to others throughout the Company. Hope to see everyone at the building dedication."

1967

CALLAHAN, W. S., General Manager, Land Department-Associated Services

(Ed. note: The above information was received in a letter from Joe Wells '54, owner of Associated Services, Rutherfordton, N. C. Bill made his change around January 1 and will be responsible for land surveying and forestry consulting in his new work.)

DURHAM, J. S., Graduate Student, University of Maryland

"Almost $\frac{3}{4}$ finished my work on MBA degree . . . married my former girl friend of 4 years last May and have also traveled to Holland for a brief vacation in September . . . hope to go to Rome, Paris and again to Holland—my wife is a stewardess for Pan American airlines, so we get sizeable discounts . . . I find myself a strong advocate of both marriage and travel, although not necessarily in that order! Hope life has been as good to all of you as it has been to me."

HARRELL, H. W., Jr., Albemarle Paper Co.

HINTON, R. V., Hercules, Inc.

"Greatly enjoying my work and travels with Hercules. If you have questions as to the whereabouts of NCSU graduates in the Mobile, Ala. area let me know, I may know where they are . . . we have a big crowd of them around . . . regards to all."

HUGHES, J. J., Dept. Fishery and Wild. Bio, CSU, Ft. Collins

"Colorado is really great. The pheasant hunting is unbeatable—if you go to Nebraska, I am involved in the International Biological Program's Grassland study out on the Pawnee Nat. Grassland. Can you imagine someone from the Piney woods lowering himself to such a position? We just pretend the blue grama grass is very short lob pine."

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

"Life in Syracuse is hectic but pleasant . . . hope to finish by June . . . regards to all."

MC GILL, W. D., II, Lt., U. S. Army

"Received Commission after completing Officer Candidate School at Ft. Benning on 20 November. Married Margaret Ann Brewer on 8 June 1968. Presently assigned to the Armor School, Ft. Knox, Ky."

WATSON, J. T., Owens-Illinois, Inc.

"Appointed Asst. Pulp Mill Supt. September 1, 1968. Expecting second child Dec. 1."

1968

BROOKSHIRE, Terry, N. C. Forest Service

ANDREWS, R. D., Duke Power Company, Forestry Dept.

FRAMPTON, M. F., Radio Corp. of America

"Work O.K.! Am 'off' training program and 'on' as a mill room foreman—fastest way to move up! Still single, too!"

HARRIS, L. H., Lawton, Oklahoma

HILLIARD, S. B., JR., U. S. Air Force

"Enlisted in the Air Force Feb. 28, 1968 . . . after completing basic at Lackland was sent to Keesler Air Force Base for 6 months' school in electronics; graduated Nov. 5 and will leave for Germany, West Berlin, for three years' tour of duty."

HOBSON, D. C., Northern Virginia Regional Park Authority

KANOY, W. P., Greensboro Public Schools

NOLL, D. A., U. S. Navy

"Navy has no current use for forestry education. I am being retrained to be a jet mechanic . . . take care Dr. Bryant, Sir! And watch those fires!"

RUSSELL, K. W., U. S. Plywood, Orangeburg

SMITH, H. D., N. C. Forest Service

"Manteo is hard to beat for fishing and hunting, and the natives are friendly." (Ed. note: If your news item is not included in our Alumni News section, it was not received in time to be typed for the printers—make an effort to get it to us earlier next year!)



ALUMNI DIRECTORY

Class of 1930

W. B. Barnes	6149 Primrose Ave., Indianapolis, Ind. 46220
C. A. Bittinger	Deceased
G. K. Brown	710 N. 6th St., Milwaukee, Wisc. 52302
E. R. Chance	Deceased
T. C. Evans, MS '31	Dir. Biometrical Serv., U. S. Forest Service So. Bldg., 12th St. & Ind. Ave., Washington, D. C.
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 S. Eads St. Arlington, Va. 22202
N. J. Leader	Deceased
D. Y. Lenhart	W. Va. Pulp & Paper Co., 230 Park Ave., New York, N. Y. 10017
D. J. Morris	102 Baldwin Court, Port Charlotte, Fla. 33950
R. L. Pierce, MS '31	815 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
F. F. Weight	40 Jackson Ave., Middletown, N. Y. 10940
C. B. Zizelman	500 E. Broad St., Tamaqua, Pa. 18252

Class of 1931

N. B. Alter	Chattahoochee Natl. Forest, Gainesville, Ga. 30601
H. E. Altman	26 Mississippi Ave., Silver Spring, Md. 20910
J. O. Artman	110 Hilltop Lane, Norris, Tenn. 37828
G. W. Barner	Deceased
J. R. Brunn	2804 Chaffin Ave., New York, N. Y.
W. T. Buhrman	5001 Kerwood Ave., Baltimore, Md. 21206
J. B. Cartwright	11 Dartmouth Ave., Avondale Estates, Atlanta, Ga. 30331
H. A. Foreman	Marshalls Creek, Pa. 18335
D. B. Griffin	Box 605, Front Royal, Va. 22630
H. J. Loughhead	399 Vanderbilt Rd., Biltmore Sta., Asheville, N. C. 28803
C. F. Phelps	294 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

W. E. Cooper	301 E. Franklin St., Richmond, Va. 23219 (Va. Forests, Inc.)
A. A. Grumbine	411 Carriage Dr., NE, Atlanta, Ga. 30328 (USFS)
A. J. Kerst	Box 77, Vicksburg, Miss. 39181 (US Corps of Engineers)
J. H. Maxwell	305 Tate St., Morganton, N. C. 28655 (NCFS)
F. J. Miller	1234 Brooks Ave., Raleigh, N. C. 27607
C. G. Royer	Deceased
G. K. Schaeffer	1612 Springbrook Drive, Decatur, Ga. 30033
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

J. C. Blakeney	1775 Sterlin Road, Charlotte, N. C. 28219
W. J. Clark	2811 Barmettler, Raleigh, N. C. 27607
T. C. Croker	Box 769, Brewton, Ala. 36426
A. B. Hafer	Consulting Forester, Box 655, Route 3, 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 Talley Drive, Chamblee, Ga. 30005
R. A. Wood	18 Buckingham Court, Asheville, N. C. 28803

Class of 1934

W. J. Barker	112 Strobe Circle, Clemson, S. C. 29631
E. E. Chatfield	Rt. 6, Laurel, Miss. 39440
B. H. Corpening	152 Shelburne Rd., Asheville, N. C. 28806 (NCFS)
A. B. Crow	Louisiana State Univ., Baton Rouge, La. 70803 Prof. School of Forestry
F. A. Doerrie	Box 4136, Baytown, Texas 77521
L. B. Hairr	605 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. Plauter	111 Fox St., Morganton, N. C. 89655 (SCS)
C. T. Prout	7327 Keystone Lane, Apt. 402, Washington, D. C. 20028 (SCS)
A. G. Shugart	Yadkinville, N. C. 27055
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
C. W. Comfort	U. S. Forest Service, Gulfport, Miss. 39501
F. J. Czabator	State Univ. Of N. Y., College of Forestry, 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	11031 N. E. Davis St., Portland, Ore. 97220 (US Fish and Wildlife Ser.)

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 Blending, Starke, Fla. 32091 (St. Fla. Military Dept.)
 G. E. Jackson Consultant, 604 W. Main St., Washington, N. C. 27889
 B. R. Kaler Soil Conservation Service, Norwich, N. Y. 13815
 J. W. Miller Prof. Of Logging and Sawmilling, 305 Ralfs Hall
 School of Forestry, Univ. of Fla., Gainesville, Fla. 32601
 F. N. Newnham 1129 Vistarra Circle, Decatur, Ga. 30033
 H. W. Oliver Princeton, N. C. 27569
 R. H. Page, Jr. 3518 Majestic Lane, Bowie, Md. 20715
 J. A. Pippin Box 664, Rockingham, N. C. 28379 (NCFS)
 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. Stingly Deceased
 W. E. Stitt Deceased
 H. R. Wright 3415 Hyland Drive, Decatur, Ga. 30032

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 2807, SE Station, Columbus, Miss. 39701
 O. T. Balletine Deceased
 R. O. Bennett Deceased
 A. H. Black 200 Third Ave., Scottsdale, Pa. 15683
 H. M. Grandall Birmingham Wood Preserving Corp., 5400 10th Ave.,
 P. O. Box 7040, Birmingham, Ala. 35224
 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 and Light Co., Raleigh, N. C. 27601
 A. D. Nease Box 1339, St. Augustine, Fla. 32084
 P. M. Obst 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. Scarlight Deceased
 M. E. Sewell Rt. 1, Dalton, Pa. 18414
 J. E. Thornton 1035 Chestnut Drive, Harrisonburg, Va. 22801
 W. H. Utley 300 Country Club Dr., New Bern, N. C. 28562
 J. S. Voss 4520 Alabama Ave., Chattanooga, Tenn. 37409
 L. H. Welsh 732 Forest Hill Dr., Wilmington, N. C. 28403

Class of 1937

W. J. Bridges, Jr. Olin-Kraft, Monroe, La. 71201
 Locke Craig Champion Celulose S. A., Caixa Postal, 10 Mogi Guacu
 Sao Paulo, Brazil, SA
 J. W. Davis 702 Princeton Dr., Wilmington, N. C. 28403 (Exec. Dr. Ports A)
 P. L. Davis L N. Davis Co. Drawer 630, Waynesville, N. C. 28786
 W. G. Davin Box 351, Bryson City, N. C. 28779
 Henry Delpin Unknown
 J. M. Deyton Great Mountain, N. C. 28740
 N. P. Edge Deceased
 C. A. Fox 1808 National Ave., New Bern, N. C. 28562 (NCFS)
 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 Virginia Forest Service, Charlottesville, Va. 22900
 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

Class of 1937

L. P. Spittainik Unknown
 L. W. Troxler 224 Carrier 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. 27107
 H. C. Bragaw Deceased
 J. S. Campbell RD 2, Sedley Rd., Franklin, Va. 05457
 W. A. Campbell 1915 Wigmore St., Jacksonville, Fla. 32206

C. J. Cheslock	Orbisonia, Pa.	17343
W. L. Colwell, Jr.	182 Ardith Court, Orinda, Calif.	94563
P. C. Conner	Firestone Plantations Co., Harvel, Liberia, W. Africa	
M. M. Dillingham	41 Park Lane W., Asheville, N. C.	28806
D. C. Dixon	Lancaster, S. C.	29720
R. C. Eaker	1004 Bragg St., Monroe, N. C.	28110
J. W. Farrier		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., Sumnerville, S. C.	29453
B. Griffin	Red Oak, N. C.	27868
P. A. Griffiths	1400 Ridge Rd., Raleigh, N. C.	27607
R. M. Henry	2296 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.	
J. B. Hubbard	3036 Churchill Rd., Raleigh, N. C.	27607 (NCFS)
James L. Huff	Mayaville, N. C.	28555
V. V. Kareiva	2303 Byrd St., Raleigh, N. C.	27608
H. W. Lull	Div. Of Watershed Mgt., NE For. Exp. Sta., Upper Darby, Pa.	19082
T. J. McManis		Deceased
W. J. Marshburg	206 Surginer Rd., Rockingham, N. C.	28397
Col. J. P. Moorfield	7517 Lansing Dr., Camp Springs, Md.	20023

Class of 1938

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.	17527
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. 8, Box 133, 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 Road, Wilmington, N. C.	28401 (Corbett Pkg. Co.)
W. L. Bensley	Bensley Lumber Products, Scotland Neck, N. C.	27874
A. E. Butler	3405 Melrose Dr., Raleigh, N. C.	27604
C. K. Dale		Unknown
R. L. Esterfield		Unknown
W. G. Evans		Deceased
J. T. Frye, Jr.	365 Forest Ave., Athens, Tenn.	37303
C. D. Harris	P. O. Box 366, Lexington, N. C.	27292
H. J. Hartley	808 Bath St., Clifton Forge, Va.	24422
D. P. Hughes	Box 115, 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	2825 Branden Ave., Roanoke, 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. F. Reeves	1831 Leavenworth St., Manhattan, Kansas	66502
H. R. Rupp		Unknown
R. W. Shelley		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	Box 965, Greenwood, S. C.	29646 (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 Ass. Co.)
R. W. Brake		Unknown
R. L. Cain		Unknown
George Charconas		Unknown
R. E. Davis		Unknown
W. B. Dunn	8 Central Ave., Warren, Pa.	16365
T. E. Gerber	444 North Wood Ave., Florence, Ala.	35630
W. E. Gibbons	Albemarle Paper Co., Roanoke Rapids, N. C.	27870
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
 E. 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. Lezier Box 13, Wrightstown, N. J. 08562
 M. A. Matson, Jr. 8813 Pinedale St., Norfolk, Va. 23505
 J. F. Needham 329 Pyley's Lane, Chillicothe, Ohio 45601
 J. F. Nigro Millbrook, New York 12545 (SCS)
 A. A. Novitskie, Jr. Unknown
 Col. W. E. Odum, Jr. Hdqs. USAFE, DCS Intelligence, New York, N. Y. 09633
 Lee Parks Deceased
 L. L. Perry Johns Manville, Jarrett, Va. 23867
 C. H. Peterson Unknown
 Ernest Roberts Unknown
 W. O. Ryburn Ryburn Farm Equipment Co., P. O. Box 618, Salisbury, N. C. 28144
 A. W. Simmons 211 N. Glenhurst Dr., Birmingham, Michigan 48009
 R. S. Swanson Box 462, Newton, N. C. 28658

Class of 1941

P. D. Abrams Stonehedge, North Granby, Conn. 06060
 A. W. Brown P. O. Box 3168, Mallory Sta., Memphis, Tenn. 38109
 (Chapman Chem. Co.)
 R. E. Carey Unknown
 G. V. Chamblee 907 Pamlico Drive, Cary, N. C. 27511
 P. M. Cromartie P. O. Box 870, Fayetteville, N. C. 28302
 West Lumber & Box Co.
 E. H. Ericson, Jr. Old Neck Rd., Manchester, Mass. 01944
 C. E. Gill 911 Gracelyn Drive, Blacksburg, Va. 24050
 Michael Goral 2412 W. 104th Terrace, Leawood, Kansas, 66206
 B. T. Griffith 4450 Bit & Spur Rd., Mobile, Ala., 36608
 F. J. Hartman 12701 Valleywood Drive, Silver Spring, Md. 20906
 T. G. Harris P. O. Box 341, West Point, Va. 23181
 R. E. Huff 529 East Brush 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. McIver, Jr. P. O. Box 50, Georgetown, S. C. 29440 (Int. Paper Co.)
 W. C. Picket 4400 Yadkin Drive, Raleigh, N. C. 27609
 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 Arbustus Dr., 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 Dr., San Diego 4, Calif. 92116
 W. A. Cromble Unknown
 R. S. Douglas 262 Kilgore Hall, NCSU, Raleigh, N. C. 27607
 (Forestry Extension)
 Paul Gawkowski Unknown
 J. E. Hobbs Edenton, N. C. 27832
 J. G. Hofmann Box 446, Roanoke Rapids, N. C. 27870
 G. M. Howe 42 Normandy Place, Roselle, N. J. 07203
 H. S. Katz 9 Park Circle, Middletown, N. Y. 10940
 E. F. Leysath Box 52, Pittsfield, Vermont 05762 (State of Vt.)
 H. S. Muller, Jr. Box 122, Kinsale, Va. 22488
 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 Univ., New York 58, N. Y. 10007
 J. T. Thurner 601 Mildred St., St. Mary's, Ga. 31558 (Gilman Paper Co.)
 F. D. Williams 1226 Salem Dr., Charlotte, N. C. 28209

Class of 1943

H. L. Epstein 36 W. McKenzie, Stockton, Calif. 95204
 J. N. Etheridge Box 686, Plymouth, N. C. 27926
 (Etheridge Land & Timber Co.)
 Morris Green 756 Pelham Parkway S., Bronx, New York 10462
 R. B. Lutz Unknown
 J. D. Martin Flack-Jones Lumber Co., 704 S. Main St.,
 Summerville, S. C. 29483
 J. T. Maynard 407 Meeting St., Georgetown, S. C. 29440
 O. F. Martin 5019 Picardy Pl., Raleigh, N. C. 27609
 W. H. Odgen 5812 Hillcock Ave., Fountain City, Tenn. 37918
 H. D. Packard RFD #1, Lloyd Road, Bernardsville, N. J. 07924
 (Eastern Sales Mgr., Taylor-Piedmont)
 E. H. Sayre Box 263, Tryon, N. C. 28782
 J. L. Shoub 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. Hartsock, Jr.	2007 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., Hueytown, Ala.	35020
E. T. Sullivan	School of Forestry, Univ. of Fla., Gainesville, Fla.	32611

Class of 1947

W. J. Barton	Union Camp Corp., Wood Procurement, Savannah Woodlands Div., Savannah, Ga.	
W. S. Campbell	College Park, Staunton, Va.	24401
Robert Dorsen	8403 Whitmans Drive, Bethesda, Md.	20014 (Robt. 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, N. Y.	11777 (High School teacher)
D. T. House	P. O. Box 116, Louisburg, N. C.	27549 (D. T. House, Co., Inc.)
J. B. Johnson, Jr.	2816 Holly Springs Rd., Raleigh, N. C.	27603 (Johnson Grading Company)
J. C. Jones	260 Kilgore Hall, NCSU, Raleigh, N. C.	27607 (Forestry Extension)
W. M. Keller	260 Kilgore Hall, NCSU, Raleigh, N. C.	27607 (Forestry Extension)
R. D. Mahone	1037 Capitol Landing 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.D.I. Bureau of Outdoor Rec.)
R. C. Boyette	P. O. Box 511, Center Plywood Co., Center, Texas	75935 (Vice-President and General Manager)
R. N. Craven	Box 755, Belmont, N. C.	28012
N. E. Dayvaut, Maj.	1st Mar., FPO San Francisco, Calif.	96601
B. D. Franklin	3139 Octavia Place, Doraville, Ga.	30340 (USFS, Soils Engr.)
V. W. Herlevick	3627 Stratford Blvd., Wilmington, N. C.	28401
W. 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	24978
E. N. Seltzer	135 Beech St., NW, Concord, N. C.	28025 (Jake Rudisill Assoc. Inc.)
G. W. Smith	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 (Allegheny Lmbr. Co.)
Fred West	English Dept. Univ. of Colorado, Ft. Collins, Colo.	80521
B. M. Zuckerman	Dept. of Plant Pathology, Inst. 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 Pulpwood 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.	1625 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	1027 N. Manchester St., Arlington, Va.	22205 (USFS, Washington, D. C.)
C. A. Broadway	408 Springwood Dr., Spartanburg, S. C.	29302
E. F. Corn	N. C. Forest Service, Rocky Mount, N. C.	27801 (Dist. Forester)
A. C. Craft	Box 87, 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 (GP&I)
G. V. Durham	1204 Liberty St., Durham, N. C.	27708
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 Dr., Chattanooga, Tenn.	37404
J. P. Harper	Box A1, Richmond Hill, Ga.	31324 (Inter. Paper Co.)
A. R. Harris	Box 553, Clinton, N. C.	28328
R. M. Hasell, Jr.	Box 1559, Wilmington, N. C.	28401 (Inter. Paper Co.)
T. L. Horne	Rt. 5, Shelby, N. C.	28150 (So. Pine Inspection Bureau)
H. G. Johnson	609 Joyner St., Greensboro, N. C.	27403

J. F. Johnson, Jr.	Atlantic Coast Line R.R. Co., Jacksonville, Fla.	32200
	(Chief Forester)	
W. T. Jones (MWT '56)	1505 W. Nash St., Wilson, N. C.	27893
W. G. Kelley	Rt. 2, Box 717, Roseburg, Oregon	97470
S. H. Long	409 Hickory Dr., Elberton, Ga.	30635 (Catawba Timber Co.)
D. E. Moreland, MS '50, Ph.D. '53	Agronomy Dept. NCSU, Gardner Hall,	Raleigh, N. C. 27607
E. L. Munger	Box 72, South Boston, Va.	24592
A. P. Mustian, Jr.	4405 Rockcrest Drive, Fairfax, Va.	22030
L. A. Muth	Stanfield, N. C.	28163
R. E. Nielson		Unknown
R. L. Noneman	Rt. 4, Sanford, N. C. 27330	(Rome Charcoal Co.)
W. R. Parham	P. O. Box 4755, Kando Corp., Richmond, Va.	23229
T. W. Patton	1911 Daniel Pl., Jacksonville, N. C.	28540
M. A. Pekar	Rt. 1, Box 809, Lynchburg, Va.	24502 (Amherst Co. School Bd.)
H. R. Powers, Jr.	SE Forest Expt. Station, Asheville, N. C.	28801
H. R. Powers, Jr., Ph.D. '53	SE Forest Expt. Station, Asheville, N. C.	28801
F. P. Probst		Unknown
Franklin Salzman	2907 Bradford Lane, Bowie, Md.	(USFS)
B. F. Smith		Unknown
W. M. Stanton, MF '64	Kilgore Hall, NCSU, Raleigh, N. C.	27607
	(Forestry Extension)	
P. M. West	P. O. Box 563, North Wilkesboro, N. C.	28659
F. E. Whitfield	Kilgore Hall, NCSU, Raleigh, N. C.	27607
	(Forestry Extension)	
A. D. Wilson	Box 151, Wytheville, Va.	24582 (Va. Div. For.)
D. K. Wilson	504 Rockspring Rd., High Point, N. C.	27262
F. W. Woods	School of Forestry, Duke Univ., Durham, N. C.	27706
T. E. Wynne	106 Oakway Court, Clemson, S. C.	29361
O. T. Yancey	Box 198, Waverly, Va.	23890 (Va. Div. For.)
Class of 1950		
H. W. Alexander	Box 235, Murphy, N. C.	28906
T. C. Alexander	2500 Murray Ave., Norfolk, Va.	23518 (Naval Intelligence)
Capt. P. E. Appleby	995 Landa Rd., Cleveland, Ohio	44124
J. C. Barber, MS '51	Inst. of Forest Genetics, Box 2008, Evergreen Sta.,	Gulfport, Miss. 39501
A. C. Barefoot, MS '51, Ph.D. '57	School of Forest Resources, NCSU,	Raleigh, N. C. 27607
R. L. Beal	International Paper Co., Brandon, Miss.	39042
F. W. Riddix, Jr.	Spruce Pine, N. C.	28777
C. A. Blevins	2nd St., Knightsville, N. C.	27545
D. R. Bowling	Forestry Dept. Masonite Corp., Laurel, Mass.	39440
R. E. Boyette	Box 425, Rockingham, N. C.	28379
A. W. Bragg	2126 Sprunt, Durham, N. C.	27705
G. P. Brank	Glenn P. Brank Ins. Agency, Weaverville, N. C.	28787
W. R. Broadwell	Weyerhaeuser, Inc., Plymouth, N. C.	27962
J. R. Bunce	Hobbsville, N. C.	27946
D. T. Burkett		Deceased
F. O. Campbell	219 Smith St., Georgetown, S. C.	29440
L. R. Cantliffe, Jr.	119 Preston, Meriden, Conn. 06450	(Northeast Lumber Sales)
M. J. Cavanaugh	2118 Glenn St., Newberry, S. C.	29108 (Champion Papers, Inc.)
J. F. Clayton	Box 175, Jefferson, N. C.	28640 (NCFPS)
L. D. Curle	P. O. Box 134, Waynesville, N. C.	28786 (SCS)
W. F. Currence	Turtletown, Tenn.	37391
H. G. Dallas, Jr.	Carolina Power & Light Co., Ins. Bldg., Raleigh, N. C.	27601
J. J. Dee	5 Bellows Lane, New York City, New York	10956
H. C. Dellinger, MS '51	Box 106, Quitman, Miss.	39355
D. A. Dubow, MS '54	2660 Venus Way, Decatur, Ga.	30032
W. R. Edens	488 Pearl St., Darlington, S. C.	29532
A. C. Edwards	Box 282, Moncks Corner, S. C.	29461
W. T. Ellison, Jr., MS '56	510 Pinehurst Ave., Colonial Heights, Va.	23834
E. J. Engel	408 Stewart St., Carrollton, Ga.	30117 (Ga. Kraft Co.)
J. T. Evans	Box 667, Sylva, N. C.	28779
E. F. Finison	119 Castle Rock Dr., Rt. 3, Asheville, N. C.	28803
W. C. Furr	1705 Richmond, NE, Alberquerque, N. M.	87107
J. H. Gilliam	Box 581, Boone, N. C.	28607
T. E. Glunt	1535 El Cerrito Dr., Red Bluff, Calif.	96080
J. A. Gravely	258 Iroquois Ave., Oak Ridge, Tenn.	37830
R. L. Gray	Rt. 1, Shutte Rd., Evansville, Ind.	47712
H. J. Green	408 Dry Ave., Cary, N. C.	27511 (NCFPS)
T. S. Griffin	1506 Crescent Dr., Elizabeth City, N. C.	27909
W. V. Griffin	Rt. 3, New Bern, N. C.	28560
R. W. Gross		Unknown
R. J. Hare	709 Raleigh St., Roanoke Rapids, N. C.	27870 (Albemarle Paper Co.)
N. M. Hicks	820 Gillete, Little Rock, Ark.	72205
J. D. Hill	P. O. Box 1078, Rockingham, N. C.	28379
J. C. Holland	2206 Anderson Dr., Raleigh, N. C.	27608
Herbert Kahan	Newfield Dr., Stamford, Conn.	06905
W. R. Kiser	69 Dogwood Acres, Chapel Hill, N. C.	27514 (NCFPS)
R. C. Korngay	c/o U. S. Dept. of Conservation, Elkins, W. Va.	26241
J. G. Lampe	511 1/2 Reid St., Thomasville, N. C.	27360 (Thomasville Furn. Ind.)
H. A. Loekemer	17999 Elliott Dr., Pilgrim Village, Chagrin Fall, Ohio	44022
V. D. McDonald	3704 Swain Dr., Raleigh, N. C.	27609 (CPL)

E. P. McMillan, Jr. 730 Hibiscus, Greenville, Miss. 38701
 A. W. Miller 112 12th St., Jeanette, Pa. 15644
 A. W. Millers 956 4th St., Dr. NW, Hickory, N. C. 28861 (City of Hickory)
 E. C. Moon 5423 Topping Place, Charlotte, N. C. 28209 (Ins. Co. No. America)
 M. S. Moore 608 Greenmead Dr., Kinston, N. C. 28501
 M. A. Mulkey, BS PPT '59 635 Glendale, Rock Hill, S. C. 29730 (Star Paper)
 C. A. Musser 659 Wellner, Waperville, Ill. (no zip code)
 R. C. Overby 427 Jefferson St., Roanoke Rapids, N. C. 27870
 J. R. Padgett P. O. Box 111, Highland, N. C. 28741 (USFS)
 W. J. Paschal P. O. Box 7, Lillington, N. C. 27546 (Asst. Post Officer,
 Ft. Bragg)
 W. W. Paylor Box 152, Longhurst, N. C. 27548
 W. R. Phelps Lake States Forest Expt. Sta., Rt. 2, Star,
 Rhineland, Wisc. 54501 (USFS)
 J. H. Phillips, Jr. 2807 Haven Rd., Raleigh, N. C. 27610
 W. L. Pierce 112 Oakhill Ave., Portsmouth, Va. 23703 (Va. Div. For.)
 J. M. Poplin Rt. 1, Box 5-F, Ahsokie, N. C. 27910
 D. H. Price 136 Wilson St., Chester, S. C. 29706
 L. R. Propst, Jr. Unknown
 F. R. Puckett 896 Middleton St., Orangeburg, S. C. 29115
 J. R. Rankin 4506 Country Club Rd., New Bern, N. C. 28560 (Pulpwood Dealer)
 B. W. Ratts 415 Raleigh Ave., Carolina Beach, N. C. 28428
 T. S. Rhyne 4505 Drexel Drive, Raleigh, N. C. 27609 (NCFSS)
 W. R. Ridman U. S. Forest Service, Hillsboro, Ga. 31038
 B. H. Ropelk Unknown
 J. W. Saffey 1106 Newton Drive, New Bern, N. C. 28560
 W. H. Searcy Box 202, Wakefield, Va. 23888
 Rev. K. B. Sexton Bethel, N. C. 27812
 M. N. Shaw, Jr. 33 Woodvale, Asheville, N. C. 28804 (NCFSS)
 J. W. Sison P. O. Box 464, South Hill, Va. 23970 (Cont. Can)
 Lt. Col. H. H. Smith c/o H. B. Smith, 164 Lynn Cove Rd.,
 Asheville, N. C. 28804 (USA)
 J. F. Spivey, Jr. 606 Candlewood Dr., Greensboro, N. C. 27403
 H. G. Turner, Jr. Box 255, Mitchell Star Rt., Prineville, Oregon 97754
 Capt. M. A. Tuttle 839-A Linden Ave., Myrtle Beach, S. C. 29577
 W. A. Tuttle 201 Carroll Ave., Houston, Miss. 38852
 A. R. Verbeck Box 5691, School of Textiles, NCSU, Raleigh, N. C. 27607
 L. J. Walls, Jr. Clinton, N. C. 28328
 M. F. Ward 1211 Park Drive, New Bern, N. C. 28560 (Int. Paper)
 J. B. White, MS '50 Unknown
 W. B. White 1617 Beaver Dam Rd., Raleigh, N. C. 27600
 T. W. White 500 W. Lakeside Dr., Raleigh, N. C. 27600
 J. M. Wilkinson, Jr. Masonite Corp., New Augusta, Miss. 39462
 T. L. Willis 5204 Inglewood Lane, Raleigh, N. C. 27609
 H. E. Williams 1233 S. Belvedere, Gastonia, N. C. 28052
 W. H. Williams P. O. Box 88, Beaufort, N. C. 28516

Class of 1951

J. F. Allen 4701 Woodridge Dr., Raleigh, N. C. 27609
 J. H. Beaman Dept. of Botany, Michigan State Univ., S. Lansing, Mich. 48900 Deceased
 Capt. D. H. Bush 329 Carolina Ave., NW, Orangeburg, S. C. 29115
 C. B. Cease, Jr. Box 338, Lea Lumber Co., Windsor, N. C. 27983 (Mgr.)
 Charlie Cousins 2834 Kingston Dr., Madison, Wisc. 53713 (USFS Prod. Lab)
 E. M. Estep Rt. 4, Box 223, Alpharetta, Ga. 30201
 P. B. Eitchinson 207 E. 18th St., Lumberton, N. C. 28358 (Consultant)
 B. W. Gentry P. O. Box 264, Sanford, N. C. 27330
 D. R. Godwin 317 N. Palm Ave., Frostproof, Fla. 33843 (Alico Land Dev. Co.)
 L. D. Greenwood S. C. State Comm. of For., Columbia, S. C. 29200
 J. T. Hance Box 26, Fredericksburg, Va. 22401
 H. R. Hendricks (W. Va. Pulp & Paper Co., Wood Dept., Covington, Va. 24426)
 I. C. Henson Power Operations, Kingston Stemm Plant, Harriman, Tenn. 37748
 L. T. Hunter Pat Brown Lbr. Co., High Point, N. C. 27200
 R. W. Hutson 11 Gibbs St., Charleston, S. C. 29401
 A. P. Jervey Walterboro, S. C. 29488 (Carolina Forestry Co.)
 R. G. Jewett Deceased
 R. W. Johanson, MS '55 Southeastern Forest Exp. Sta., Macon, Ga. 31200
 E. M. Jones For. Ext., Kilgore Hall, NCSU, Raleigh, N. C. 27607
 (Residence—Tarboro, N. C.)
 J. G. Lusk Unknown
 J. C. Masten 204 N. Thompson St., Whiteville, N. C. 28472 (Acme
 Wood Corp.)
 R. P. Meacham 702 Forest Rd., Goldsboro, N. C. 27530
 W. P. Mitchell Box 1054, Kingston, N. C. 28501
 R. F. Penland Skyland Circle, Asheville, N. C. 28804
 J. Ralston, MS '55 Maryville Branch Post Office, Georgetown, S. C. 29440
 J. R. Reid, Jr. 3465 Leonard St., Raleigh, N. C. 27107
 (Prospecting Engr. Superior Stone)
 J. F. Renfro, MS '57 103 Davison St., Brewton, Ala. 86426
 A. C. Roane, Jr. Box 30224, New Orleans, La. 70130
 S. C. Rose Rose Surveying & Const. Co., Fayetteville, N. C. 28300
 A. F. Rowe, Jr. 506 Terrace Dr., Ayden, N. C. 28513
 W. E. Scholtes 312 Forest Grove Ave., Jacksonville, N. C. 28540
 R. E. Shilling, Jr. 508 Love Lane, Rockingham, N. C. 28379
 (Int. Paper Co.)

A. F. Skaarup RR 2, Box 191, Neshanic Station, N. J. 08853
(Western Elec. Co.)

W. D. Shoffner 1306 Grove St., Paris, Tenn. 38242

D. A. Stecker, MF '51 Andover Wood Prod. Co., Bethel, Maine 04217

C. M. Story 2329 Glascock St., Raleigh, N. C. 27610

T. L. Suggs 728 Athens Ave., Fayetteville, N. C. 28301

P. D. Sykes 502 E. Guilford St., Thomasville, N. C. 27360
(Purchasing Agent)

H. M. Westbury S. C. Forest Service, Columbia, S. C. 29200

C. C. Willoughby 903 Sycamore St., Weldon, N. C. 27890

Class of 1952

J. D. Besse, MS '52 1644 So. 16th St., Escanaba, Mich. 49829 (self-employed)

G. M. Blanchard 5778 Corwin Lane, Riverside, Calif. 92503
(Correctional Counselor Calif. Dept. of Corrections)

H. J. Boger Overton Container Corp., Smithfield, N. C. 27577

J. J. Cornett Unknown

L. A. Cramer 1221 Ward St., P. O. Box 1363, High Point, N. C. 27261
(Lowe-Crmauer)

J. D. Crook, Jr., MWT '56 2705 Parkwood Trail NW, Cleveland, Tenn. 37311
(Hiwassee Land Co.)

H. R. Garrett 806 East St. So., Talladega, Ala. 35150 (USFS)

J. E. Graham 1514 Omarest Dr., Columbia, S. C. 29210 (SCFS)

T. J. Ginn, MS '52 Masonite Corp., Elizabeth, N. J. 07200

H. H. Gresham Room 7, Rivers Bldg., Cordele, Ga. 31015

T. N. Hardin Bureau of Land Mt., Ely, Nevada 89301

H. G. Harris, Jr. 701 Berkshire Dr., Garner, N. C. 27529 (NCDF)

J. S. Hinshaw Rt. 5, Lexington, N. C. 27292

S. M. Hughes 704 Pine Tree Drive, New Bern, N. C. 28550
(Riegel Paper Co.)

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(Continued from page 9)

Our next step in strengthening the School is to offer a graduate program in Recreation Resources Administration. On the basis of the strong faculty that has been brought together in the Department, coupled with strong supporting programs throughout the University, a proposal is being submitted this spring seeking approval to offer the Master's degree.



(Continued from page 94)

To fit a neighborhood center into the community in which it is to be placed to make it blend with the topography and the character of the neighborhood without being limited by its deficiencies, to give life, color, form, and symmetry to the recreation structure is, we believe, an opportunity and a responsibility for the capable architect. The degree of creative opportunity is not equal in other aspects of architecture to that of recreation. It is there for the alert recreation planner and architect who is aware of the freedoms of the era of leisure.

The North Carolina Recreation Commission, this State's official recreation advisory agency, is ready to join its resources with those of the field of architecture to the advantage of (1) function and (2) beauty in recreation areas and structures.

(Continued from page 96)

Recreation is also a contributor to the environmental degradation problem as well as a source of controversy in its own right. Not only does it tend to degrade the quality of water for purposes such as domestic use, but one type of recreation may diminish the suitability of the environment for recreation of other kinds. Indeed, some forms of recreation are so incompatible as to be mutually exclusive. It would appear that the recreational aspects of the problem are at least as critical, and perhaps more difficult to resolve, than those involving the withdrawal or consumptive uses.

In summary, recreation recently emerges as one of the most important and least tolerant of the competitors for the beneficial use of water, and also, a potential source of impairment. At a time when the dignity of man and his physical, mental, and social well-being are threatened by rapidly accelerating environmental degradation, pollution per se is seen as symptomatic of a pressing need for comprehensive consideration of the human environment and a rationale for preventing deterioration below an acceptable level.

(Continued from page 97)

The professional recreator supports the exercise of control over those who may desire entrance into the profession. He actively seeks to exclude from the profession those who are not qualified to enter it.

The professional man operates best in a cooperative environment. He works effectively with all individuals and groups in his community on matters of mutual concern. He recognizes that many individuals and agencies in his community have a potential contribution to make to recreation, and therefore, encourages the involvement of others in the promotion of recreation.

The professional recreator avoids the "lime light" and gives full credit for accomplishment to his subordinates, recognizing that he and his department are best served by his basking in reflected glory.

He constantly strives for excellence in his work. He refuses to be satisfied with mediocrity and constantly works to upgrade professional performance. As a professional person the recreator is curious, welcomes new ideas, experiments, creates, originates, is never thoroughly satisfied with the status quo. He encourages the involvement of all members of his organization toward the solution of problems recognizing that all those effected by policy should have a hand in its formulation and that shared decisions result in co-advocates.

Finally, the professional man in recreation genuinely enjoys life and is a down-to-earth human being. While he understands the importance of joyous living, he never loses sight of the fact that the public will respect his profession and accord it dignity and status only when its members conduct themselves in a manner so as to merit respect.

Overshadowing all other needs in recreation today is the imperative need of superior leadership. The number of high quality leaders in the field of recreation is constantly gaining, but no profession came into being fully grown. Each had its lowly beginnings and gradually over the years achieved mature professional status by paying the price in terms of standards elevated through intensive study, hard work, and self-discipline. Young men and women entering the field of recreation following successful completion of their work at North Carolina State University and other institutions of higher learning hold the key to our future rate of progress in climbing the ladder of professional status in the United States. They must not fail.



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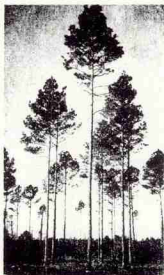
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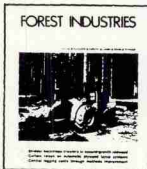
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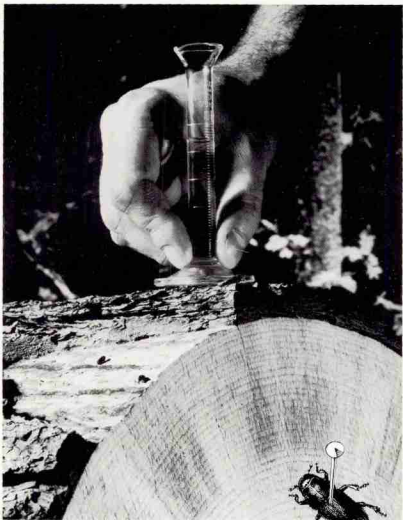


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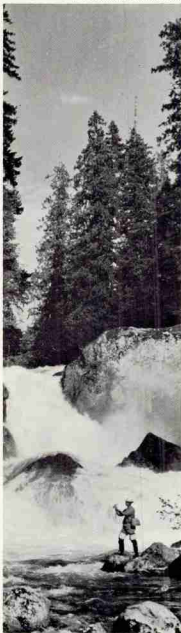
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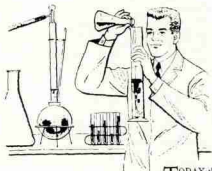
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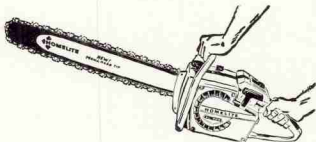
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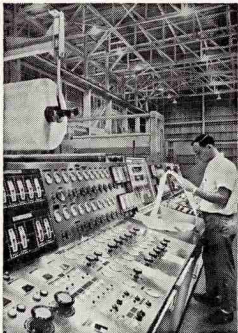
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