



50th

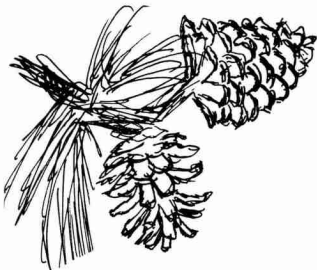
Anniversary

Pi-ne-tum

1934-1984

North Carolina State University

Journal of the School of Forest Resources



# Pi-ne-tum

Journal of Forest Resources

*Fifty years ago the first Pi-ne-tum was published by the students of the School of Forestry. The following introduction from the first Pi-ne-tum has served as an inspiration to those staff that have followed in their footsteps.*

*"It is a hope to those whom the publication of this annual has been entrusted that the first yearbook may serve to better acquaint forestry students with the many problems that confront the forester today, as well as to furnish a cross section of the joy and the sorrow that are his."*

*Through the years the Pi-ne-tum has not only served as a historical record but also as a reflection of the ideas, activities, and personalities of the students and the faculty of the School of Forest Resources. Since the publication of the first Pi-ne-tum the School of Forest Resources has grown. The school now includes Conservation, Recreation Resources Administration, Pulp and Paper Technology, and Wood Science Technology as well as Forestry.*

*The long tradition of publication of this journal has been kept alive through the years and we the 1984 staff are proud to present the 50th Edition of the Pi-ne-tum.*

*Mauren Murphy Leslie J. Horton Tony Mebane*

Conservation, Forestry, Recreation Resources Administration, Wood Science and Technology, Pulp and Paper Technology

North Carolina State University

Raleigh, North Carolina

Volume I,

1984

# "CELEBRATION OF LIFE ...

This years Pi-ne-tum is co-dedicated to two former faculty Prof Roy Carter and Dr. Thomas Gemmer who served both students and their co-workers here at N.C.S.U.. We respectfully dedicate this 50th Edition to these men who are but two examples of the outstanding faculty we have here at the School of Forest Resources.



Roy Carter

In addition to his substantial contributions to curriculum development, Professor Carter arranged and offered numerous short courses. The response by industry was such that these courses were nearly always over-subscribed. This success and demand for additional short courses were partially responsible for the creation of a forest products extension specialist position. Thus, the beginning of our current forest products extension group was in part due to him.

In the fall of 1948 Professor Roy M. Carter arrived at North Carolina State University with specific teaching and research assignments in the field of wood technology. Thus the School of Forest Resources took the first step toward establishing what is known today as the Department of Wood and Paper Science. The historical facts clearly illustrate that today's Department exists on the solid foundation begun 33 years ago by Professor Carter. Shortly after his arrival two new curricula, Wood Technology and Lumber Products Manufacturing and Merchandising, were created. The latter evolved into a Wood Products Merchandising curriculum, and finally a core curriculum entitled Wood Science and Technology with opportunity for concentration in lumber, furniture, business, industrial engineering, and pulp and paper was created.

The Forest Products Research Society, which had its beginnings in 1948, was also the recipient of Roy Carter's interest and enthusiasm. He served as a Regional Board Member in 1949, Vice President in 1950, and President in 1951. His efforts in a leadership role contributed greatly to this emerging society.

Although he formally retired in 1978, he continued to interact with the faculty, organize seminars, short courses and, just prior to his death, completed work on a book concerned with wood finishing.

Professor Carter's successes in the field of wood technology were many and noteworthy. However, his students and colleagues will most remember him for the very personal and deep concern he showed for them on a daily basis. He is missed.

## Dr. Thomas Gemmer

This issue of the Pi-ne-tum is dedicated as a celebration of the life of Dr. Thomas V. Gemmer, Associate Professor of Forestry, who died October 7, 1983 from cancer.—We choose this dedication as a "celebration" since that is the way Dr. Gemmer would have preferred it. In addition, it is our way to celebrate Dr. Gemmer's life and the fact that we were privileged to share a part of it.

Dr. Gemmer came to NCSU in 1970 with a specialty in computer science and a developing interest in forest fire management. His intense

interest in sharing his knowledge with others led to the development of a computer programming course in the School of Forest Resources and, in more recent years to the development of a special topics course in forest fire management. He served as advisor to the Forestry Club for ten years, traveling to every conclave. For the last four years he was placement coordinator for the Forestry program.

Dr. Gemmer's outgoing personality and concern for others made him a popular and effective

## WILL CONTINUE''

teacher. He was friend and advocate of students, always ready to listen, to counsel, and to help. In 1974 the students and faculty elected him to the N. C. State Academy of Outstanding Teachers and in 1981 he was named an Alumni Distinguished Professor, a most prestigious award given to only three faculty members each year.

Dr. Gemmer's interest in helping others extended beyond the student body. He was a Hopeline volunteer, giving of his time to man telephones and provide comfort and advice to others whose troubles seemed to be more than they could bear alone.

We will miss Dr. Gemmer. While some of us would inevitably have been separated from Dr. Gemmer by graduation, we would have known he was still here. More importantly, we regret that those who follow us will miss the opportunity to have their lives enriched as ours were by knowing Dr. Tom Gemmer.

We hope that we, and those before us, who were touched by Dr. Gemmer's enthusiasm for life, care for others, and encouragement toward excellence will share that gift with others. In that way the "celebration" of Dr. Tom Gemmer's life will continue.

Dr. Gemmer

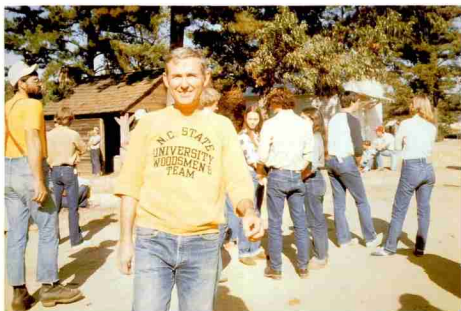
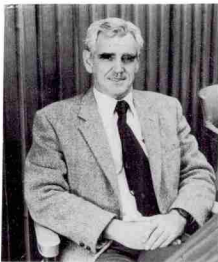


Photo by T.V. Gemmer

# THE OTHER DIMENSIONS

## The Dean's Message to the Students



Eric L. Ellwood  
Dean

B.S., M.S., Univ. of  
Melbourne  
Ph.D., Yale Univ.

The major concerns of practically all students who undertake the various curricula in the school are locating the opportunities for a rewarding career (both in self-fulfillment and economic terms) that await them upon graduation and, more immediately, getting that first foothold in their profession in the working world.

These concerns have heightened in the last few years as it has become apparent in today's economy that there are comparatively few university curricula from which nearly all able graduates are virtually assured an entry level job in their chosen profession. Even in the oldest and high prestige professions of law and medicine, there appears to be a substantial oversupply of graduates compared to the economically viable opportunities available. Although there is a high demand for graduates of certain engineering, science, and business curricula, it is also true that many graduates even from those programs will not be successful, at least initially, in getting a foothold in their chosen professions.

But the situation still holds that the "top" people from any curriculum who have the persistence, drive and willingness to go the extra step will find opportunities in their field.

What is meant by "top"? Obviously in today's competitive job hunting arena, good grades are a very definite plus and many company recruiters state that they are really only interested in visiting with students in the top quartile of grade point averages.

But there are many "other dimensions" besides academic grades that determine the difference between getting an offer or not, even when the graduate has high grades. These other dimensions are particularly important for those graduates with simply mediocre grades.

The other dimensions fall into the categories of personality traits, willingness to work hard and sometimes under duress, communicative abilities, and the perceived potential to rise through the ranks, at least to middle-management levels.

In trying to summarize and condense the statements made by recruiters from industry and government agencies, there will be some oversimplification and departures from the average, depending on the hiring agency. But the other dimensions that are high in their priorities are:

1. **PERSONALITY.** Traits sought out are positiveness, enthusiasm, a conservative (including dress) rather than highly liberal attitude, cheerfulness, and indicators of ability to get along with people, a strong sense of loyalty and of ethical standards. Leadership qualities are always highly rated and evidence of these in students' school activities is a definite plus.
2. **COMMUNICATIVE ABILITIES**—in both verbal and written forms. Perhaps no other area elicits such a uniformity of opinion amongst employers that university graduates of technical programs (not only from forestry) are woefully lacking in communicative skills and limit their own advancement because of this. This criticism has been particularly prevalent during the growth of the TV age and is the major reason Gary Blank was appointed to assist students in communicative skills beyond that required as a minimum from the university.
3. **WORK HABITS.** Almost every employer looks for recognition from a prospective employee that a 40-hour work week is not the norm and that considerably longer work hours will often be needed and should be willingly worked by the prospective employee. Also, assignments to very small communities are frequently associated with forest resource related professions, and the prospective employee who shows willingness to take such assignments does have an advantage. Follow through of assignments is another highly sought after work habit.

4. **PROMOTABILITY.** This important characteristic is one which amounts to the integration of innate ability with the prior three characteristics listed above. It obviously includes a high level of motivation to get ahead. Obtaining additional qualifications over and above the chosen major while in school, such as a dual degree—including the major economics and business—is not only establishing a sounder professional base but it is also an indication of motivation. As the employee progresses up the ranks, the responsibilities become

increasingly those of getting things done through other people. This involves a different set of skills than those required for entry level to the profession. The ability and willingness of the individual to keep learning throughout his/her career is an essential ingredient of upward mobility. Besides, few developments are more rewarding to a recruiter or employer than having someone that he/she has hired, subsequently advance to even higher ranks of responsibility.

## Successful Careers

### R. Scott Wallinger

Careers can not be predicted! Mine began in 1960 as Editor of the Pine-tum. Over 24 years it has evolved from naval officer – landowner– assistant forester– wood procurement staff–mill communications manager–to vice president and general manager of a national corporation's timberlands.

Advancement reflects the opportunity to perform, nurturing bosses, good colleagues, and a bit of luck.

For current students get your foot in the door. Do not look for career path – conditions change faster than careers. Do not build sideboards on any job – it is what you do to broaden your scope that moves you along.

### Dennis Ammons

At present I am Southern Woodlands Regions Manager for Union Camp Corporation with responsibility for all wood procurement, land management, harvesting, and other forestry related work in South Carolina, Georgia, Florida, and Alabama.

I graduated from State in 1947 and worked for the South Carolina Forestry Commission for nine years. I have worked for Union Camp for 28 years. I started as a circle forester in Florida and worked at a number of jobs in South Georgia and Savannah in the land management area.

There is no real magic in moving up the corporate woodlands ladder. I must say that I have had more than my share of luck and my superiors have been most understanding of my many mistakes.

Any forester who wants to progress must be willing to work. Any forester who wants to progress must be willing to start early and stay late. The ability to communicate effectively, both

written and orally, with a wide range of people in both high and low status positions is a big plus. We have a saying around here: "Persevere and Conserve." Everyone knows what it means.

### W. J. Barton

After graduating from N.C.S.U. in 1969, I was employed by American Furniture Company. Six months later I was off to join the Armed Forces. Upon returning I worked my way to the level of Plant Manager.

At the end of 1975, I joined the furniture division of the Singer Company as Director of Quality Control. Soon I was given an assignment as Plant Manager again and in 1981 was promoted to Director of Manufacturing Operations over seven plants.

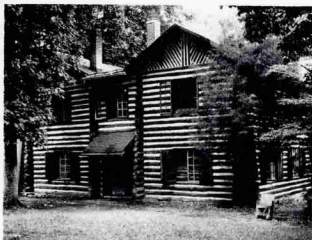
In 1982, I left Singer to join another individual who had left Singer to become President of the furniture division of Burlington Industries. My new position there was V.P. of Manufacturing, a position I still hold at Burlington.

My advice to today's college students is to spend their time wisely; and, in addition to taking seriously the courses they are majoring in, to concentrate as much time as possible to business—and finance—related courses. A good working knowledge in those areas is an absolute must to be successful in today's business climate.



# ' CLASSROOMS WITH ROOTS '

by Larry Jervis



**Hill Forest Summer Camp Lodge completed 1935**

In this the 50th Anniversary issue, it is perhaps appropriate to look back over the 5 decades of progress on the School's research and demonstration forests. Beginning with a 378 acre donation in 1929, the forests now total some 4,200 acres in the Piedmont (Hill, Schenck, Hope Valley, and Goodwin Forests) plus the 78,000 acre Hofmann Forest in the coastal plain. The first Dean of the School, Dr. J. V. Hofmann, perhaps best expressed the ultimate value of university forests when he referred to them as "Classrooms with Roots." Today, the NCSU forests remain as important to our teaching and research missions as on-campus chemistry and physics labs are to those curricula.

Since the early 1930's forestry undergraduates have studied dendrology, sharpened their cruising skills, prescribed and practiced silviculture, and prepared management plans on these properties. We no doubt own some of the most studied, poked at, planned for, and managed trees anywhere! These field experiences tend to be among the most memorable of students' learning experiences, and in later years many fondly recall the comradery of summer camp at Hill Forest, or the miseries suffered at the old spring camp on Hofmann Forest.

A smaller, but significant number of undergraduates have participated in the actual management of the four Piedmont properties. Various known through the years as "Slocum's Slaves," "Bryant's Boys," or "The Weekend Warriors,"

these are the guys (and recently gals) who give up their Saturdays and holidays to cruise the sales, mark the thinnings, plant the seedlings, burn the woods, remeasure the field studies, and perform the myriad other tasks. Today, the organization remains largely one of students, including 12-15 regulars on work-scholarship grants and as many as 20-25 extras when large scale planting or research plot measurement projects are underway.

The properties have been productive sites for research as well. Some 23 masters theses and 5 doctoral dissertations have resulted from graduate student studies conducted on the forests. The wide variety of faculty research represented reflects the progress of southern forestry during the period. Early work included basic species comparisons, thinning trial, and plantation spacing tests; studies currently underway include fertilization and weed control tests, tissue culture plantings, and sophisticated hydrological research.

The development of these forests, though gradual, is remarkable for the fact that it has been accomplished with capital generated almost solely from the forests themselves. The progress is a testament to the earlier faith that cutover forest land could be made to pay for its own development; of particular note is the retiring of the long standing mortgage on the Hofmann Forest just last year. The forests should be even more valuable over the next half century.



**First supervisor Hofmann Forest-G.E. Jackson**

# A Salute to the School Forests Crew



Hunter Birckhead



Roy Cloninger



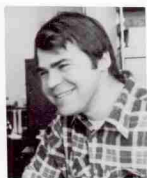
John Connor



Sam Cooke



Paul Davison



Gery Glover



Mike Gomez



Scott Gordon



Victor Harris



Jeff Lane



Kathy Lloyd



Jo Ann Marco



Nancy Martin



Allen Waddell



Jeff Ward



Lori Yedwabnick



Arsonist



# Academic Affairs

Associate



L. C. Saylor

Dean of Academic

B.S. Forestry, Iowa State Univ.  
M.S. and Ph.D. Genetics, NCSU

Affairs

## FORESTRY

### Faculty



First Row: AWATIF HASSAN, Ph.D. Univ. of California; JERRY L. BETTIS; GARY KRONRAD; PHILLIP DOERR, Ph.D. Univ. of Wisconsin; RICHARD BRAHAM, Ph.D. NCSU; LEE ALLEN, Ph.D. NCSU; STEVE ANDERSON, M.S. Univ. of Washington-Seattle; DOUG FREDERICK, Ph.D. Univ. of Idaho; DON STEENSEN, Ph.D. Duke Univ.; WILLIAM HAFLEY, Ph.D. NCSU; Second Row: SIAMAK KHORRAM, Ph.D. Univ. of California; MIKE WISNIEWSKI; KENNETH ROEDER, M.S. Univ. of Florida-Gainesville; LARRY MORRIS, Ph.D. Univ. of Florida;

CARLYLE FRANKLIN, Ph.D. NCSU; BILL SMITH, M.S. NCSU; THOMAS O. PERRY, Ph.D. Harvard; MAURICE FARRIER, Ph.D. NCSU; RICHARD LANCIA, Ph.D. Univ. of Massachusetts; DAVE ADAMS, Ph.D. NCSU; JAMES GREGORY, Ph.D. NCSU; ARTHUR COOPER, Ph.D. Univ. of Michigan; ROBERT KELLISON, Ph.D. NCSU; C.E. DAVEY, Ph.D. Wisconsin; LARRY JERVIS, M.F. NCSU; LESTER HOLLEY, Ph.D. NCSU; JAN LAARMAN, Ph.D. Univ. of California; GARY BLANK, M.A. Univ. of Idaho.

## Department Highlights

by Arthur W. Cooper

The 1983-84 school year has been many things to the students and faculty of the Department of Forestry. First, of course, we were all deeply saddened by the death of our colleague and friend, Dr. Tom Gemmer. Tom was a superb teacher and a strong supporter of our undergraduate students and programs. He did much to incorporate computer technology into our teaching program. We have lost his quick smile and friendly assistance. Tom Gemmer will be missed.

This year may well be known as the "year of the review." By May the Department of Forestry will have had both an SAF accreditation review of the undergraduate curriculum and a review of its research program. In preparation for the SAF review, faculty committees chaired by Drs. Holley and Gregory have completed reviews of the philosophy and structure of the curriculum. Although the basic program is sound, a number of changes will probably be recommended. The most important involve changes in the concentration areas and revision of requirements so a clearer emphasis on industrial forestry is possible. We also expect to make some changes in the freshman-sophomore course sequence and in the integration of transfer students into summer camp. Student opinion has been sought to augment faculty views.

Enrollment in the undergraduate program in 1983-84 was 206, down slightly from the previous year and reflecting the continued national decline in forestry enrollment associated with the 1982-83 economic decline. We expect that 28 students will receive degrees at the May commencement. Graduate enrollment continues to rise slightly; there are now 76 graduate students in forestry, making our program one of the larger graduate programs in forestry.

Dr. Jim Gregory has replaced Dr. Gemmer as placement coordinator. Dr. Gregory is revamping our placement and interview procedures, reestablishing contacts with some industries that had slipped since Dr. Bryant's retirement, and redirecting our overall program.

A number of faculty and students received awards in 1983-84. Leslie Doss and Karen Papke Miller were awarded Southwest Forest Industries scholarships. Dr. Chuck Davey received a Gamma Sigma Delta award of merit, and Dr.

Awatif Hassan earned the Doerfer Engineering Concept of the Year Award for 1982 from the American Society of Agricultural Engineers. Dr. Don Steensen was awarded a Certificate of Appreciation by SAF, and Dr. Art Cooper was elected Chairman of the North Carolina Division of SAF. Dr. Jim Gregory was elected Vice President of the North Carolina Academy of Science, and Dr. Siamak Khorram received a medal from the Italian Navy League for distinguished contributions to remote sensing.



"Embryo Foresters"



Southwest Forest Industries Scholarships

# WOOD SCIENCE AND PULP AND PAPER TECHNOLOGY

## Faculty



From Left to Right: RICHARD J. THOMAS, Dept. Head, Ph.D. Duke University; RICHARD H. CORNELL, Ph.D. Institute of Paper Chemistry; ELISABETH A. WHEELER, Ph.D. Southern Illinois Univ. RONALD G. PEARSON, B.C.E., B.A., Univ. of Melbourne; Second Row: ROBERT C. GILMORE, M.W.T. N.C.S.U.; IRV-

ING S. GOLDSTEIN, Ph.D. Harvard Univ.; Third Row: C. ARTHUR HART, Ph.D. N.C.S.U.; MYRON W. KELLY, Ph.D. N.C.S.U.; Fourth Row: HEINZ G. OLF, Ph.D. Technical University of Munich; JOSEF S. GRATZL, Ph.D. Univ. of Vienna, Austria; CHEN-LOUNG CHEN, Ph.D. Univ. of Heidelberg.

## Department Highlights

by Richard Thomas

Undergraduate enrollment in the Department increased slightly from 251 to 263 with 189 enrolled in the Pulp and Paper program and 74 in the Wood Science curriculum. Graduate enrollment remained stable with 31 students. Undergraduate merit scholarships were awarded to 82 undergraduates for the 1983-84 academic year. Academic performance remained high with 33 students earning Dean's List status in the Fall 1983 semester.

During this past year Dr. Josef S. Gratzl was named a TAPPI Fellow and Dr. Myron S. Kelly received the University's Outstanding Teacher Award. Dr. Kelly also won this award in 1980.

Career opportunities for May 1983 PPT graduates were for the first time in the history of the program very poor. Almost 50 percent of those seeking employment were successful by

graduation day. By early fall all but one person had found work in the industry. Although jobs were scarce, starting salaries reached an average of \$28,100. The increased profits reported by most paper companies at the end of 1983 should be encouraging to the 22 seniors expecting to graduate in May.

Relative to 1982, the WST graduates have found a good employment situation. With the exception of three who are continuing their education all fourteen have found employment. Starting salaries ranged from \$13,000 to \$26,700, with an average of \$18,300. The ten seniors graduating this year should not experience any difficulty in locating employment.

With more and more forest products industries expanding into the southeastern United States, openings for graduates of both curricula will

continue to increase. Despite the recent difficulties, in our judgement future career opportunities for graduates of both curricula will remain excellent.



## RECREATION RESOURCES ADMINISTRATION

### Faculty



From Left to Right: HUGH A. DEVINE, Ph.D. Penn. State Univ.; SONDRAL. KIRSCH, M.S. U.N.C. Chapel Hill; M. ROGER WARREN, Dept. Head, Re.D. Indiana Univ.; CAROLYN S. LOVE, M.S. N.C.S.U.; PHILLIP S. REA, Re.D. Indiana Univ.; DON D. TARBET, Ph.D. S.U.N.Y., Syracuse.; ROBERT E STERNLOFF, Ph.D. Univ. of Oregon. Not Pictured:CHRYSTOS D. SIDERELIS, Ph.D. Univ. of N.M.; BETH E. WILSON, Ph.D. N.C.S.U.

### Department Highlights

by Roger Warren

Among the outstanding endeavors of the Department of Recreation Resources Administration are the continuing education programs conducted annually at Olgebay Park in Wheeling, W. Va. This was a particularly meritorious year for these Schools. The Revenue Sources Management School celebrated its 20th anniversary with a special celebration that involved many of the early leaders of the School. The Revenue Sources Management School established a format and reputation for excellence that has been emulated by many other continuing education programs in the park and recreation profession throughout the United States. The Maintenance Management School has been enormously successful

with maximum enrollments each year. This year the School honored its Director, Dr. Robert Sternloff, by establishing a scholarship program in his name for persons attending the Maintenance Management School. The School of Sports Management under the direction of Dr. Phillip Rea had a record enrollment of 130 students. The Professional Management Development School for Zoo and Aquarium Personnel also continues to draw near record registrations each year.

There were several changes among the departmental faculty during 1983-84. Dr. Clyde Chesney was hired by the Agricultural Extension Service in the Division of Community and Rural Development. Dr. Chesney's

academic appointment is in the Department of Recreation Resources Administration as an Assistant Professor. Beth Wilson completed her Ph.D. degree in Sociology and was promoted to Assistant Professor and now serves as a member of the graduate faculty. Dr. Phillip Rea assumed the position of Graduate Administrator for the Department in January. Dr. Alan Stutts resigned in June to take a position at the University of Nevada, Las Vegas in the College of Hotel Administration.

RRA 443, Applied Recreation and Park Interpretive Services, was approved during the year and offered for the first time during the spring semester, 1984. Dr. Wilson involved this class with an exciting project with the Wake County Schools and Raleigh Parks and Recreation department. The project, titled "Camp Durant Pilot Program" provided 5th grade students in Wake County with a week-long camping, outdoor education experience. Students in the RRA 443 class provided a variety of programs designed to develop outdoor skills and awareness. The goal of the pilot

program is to provide this type of experience for all 5th grade students in the future.

The Recreation Majors Club did an excellent job in sponsoring the 4th annual RISE (Recreation Internship and Summer Employment) Conference. A record 35 agencies participated in the program.

One of the exciting activities of Rho Phi Alpha resulted when the fraternity entered into negotiations with Florida State University to merge with Sigma Lambda Sigma. The two fraternities came into existence at about the same time (1958). Both fraternities had been working toward national status when it became apparent that the park and recreation profession could not effectively support two fraternities. With the blessing of the Society of Park and Recreation Education, serious talks were begun in Kansas City during the National Recreation and Park Congress. If plans proceed smoothly, a new merged fraternity could emerge in time to have its initial meeting in Orlando, site of the 1984 NRPA Congress.

---

## Extension Forest Resources

### Extension Faculty



From Left to Right: LARRY G.JAHN, M.B.A. Penn. State Univ.; MIKE LEVI, Ph.D. Leeds Univ. England; DICK ALLISION, M.F. Penn State Univ.; Leon H. Harkins, M.S. Northern Illinois Univ.; RICK HAMILTON, M.F. Duke Univ.; Back Row: JOE DENIG, Ph.D. Virginia Tech.; MORELAND GUETH, B.S. N.C.S.U.;

BILL HUXSTER, M.W.T. N.C.S.U.; BILL GARDNER, M.S. N.C.S.U. Not Pictured: EARL L. DEAL; M.S. Univ. of Georgia; STEVE HANOVER, M.F. Yale Univ.; ROBERT HAZEL, M.S. Penn State; JAMES R. MCGRAW, Ph.D. Univ. of Florida; BILL STANTON, M.F. N.C.S.U.; BILL SWINT, M.F. N.C.S.U.

## Department Highlights

by Mike Levi

The nation's Land Grant Universities have a triple mission—education, research, and extension or public service. The thirteen faculty members and two technicians in Extension Forest Resources have the primary responsibility in the School for public service programs although all faculty and students can play a part in taking knowledge from the University to various segments of society.

1983 saw marked improvement in the health of the economy in general and of the forest products industry in particular. Extension shared in this improvement. Two new positions were established in the Department. Joe Denig joined the faculty to develop educational programs for the sawmill industry and Moreland Gueth started work as a forest management technician to assist in the establishment and maintenance of forestry and wildlife demonstrations around the State.

The major program thrust in Extension continued to be the increased management of the 16 million acres of private forestland in the State. Specialists presented over one hundred programs and tours for landowner groups attracting approximately five thousand people. In addition publications and slide/tape programs were developed and monthly media releases distributed for

use by county agents to help spread the word on the benefits of multiple use forest management. An important deterrent to management in some parts of North Carolina is lack of markets, particularly for low quality hardwoods. Extension was heavily involved in 1983 in promoting the use of wood as an industrial fuel, where technically and economically feasible, in encouraging the use of yellow poplar in house construction (a common practice fifty years ago!), and in working with the Department of Commerce to attract more forest industries to North Carolina.

Other extension programs included support of the rapidly growing Christmas tree industry where emphasis is on the production of higher quality trees; educational programs to reduce beaver damage; establishment of the Fur, Fish'N Game Rendezvous, a new summer camp for youth interested in wildlife; and co-sponsorship of the Carolina Log'N Demo which attracted over 1000 loggers to see static and working displays of the latest logging equipment.

This outline of some of the year's highlights gives a flavor of the Department's activities. Opportunities in Extension for graduates in the natural resources area are increasing.

---

## RESEARCH



Ellis B. Cowling  
Ph.D. Univ. of Wisconsin  
School of Forest Resources Research

Associate

Dean of Research



## COOPERATIVES

### INTRODUCING CAMCORE

Editor's Note: The following article is an introduction to the newest cooperative at the School of Forestry, CAMCORE.

The CAMCORE Cooperative was formed in 1980 at the School of Forest Resources to preserve endangered species of conifers in Central America and Mexico. To do this, seeds are collected from as many as seven different coniferous species each year in Guatemala, Honduras, and Mexico. The seeds from these collections are planted in conservation areas and research studies throughout Central America and Mexico as well as in Columbia, Venezuela, Brazil, and the Republic of South Africa. Data from the research studies will be analyzed at North Carolina State to determine which species and seed sources have the most potential for plantation and reforestation programs in the tropics.

The Cooperative employs ten people, most of whom are natives of Guatemala and Mexico. Offices in Central America and Mexico are located in San Cristobal de las casas, Chiapas, Mexico; Guatemala City, Guatemala; and Siguatpeque, Honduras. The CAMCORE headquarters at the School of Forest Resources is located at the Research Annex West, several miles from Biltmore Hall.



JUAN JURADO BLANCO, B.S. N.C.State;  
ADELA LAMSON; BILL DVORAK, M.S.  
N.C.State

### Forestry Equipment



From Left to Right: MARK T. SENIOR, B.S.  
Forestry Cook Coll., Rutgers Univ.; AWATIF E.  
HASSAN, Director, Ph.D. Univ. of California,  
Davis; BILL HADDOCK, Research Associate,  
M.S. N.C.S.U.; CARL THURNAU, B.S. Univ. of  
Maine, Orono.



## Hardwood



From Left to Right: RUSS LEA, Ph.D. S.U.N.Y. C.E.S.F.; PETE SCHROEDER, M.F. N.C.S.U.; MARTHA HOLLAND, Sec.; KENNETH ROEDER, M.S. Univ. of Florida; ROBERT C. KELLISON, Ph.D. N.C.S.U.; Not Pictured: PAUL MARSH.

## Fertilization



## Small Woodlot



From Left to Right: CARLYLE FRANKLIN, Director, Ph.D. N.C.S.U.; MARTY HOOD, MARK SMITH, B.S. N.C.S.U.; JEAN ALLEN, DENNIS HAZEL, M.S. N.C.S.U.; MARTHA MILLER, Secretary.



## Tree Improvement

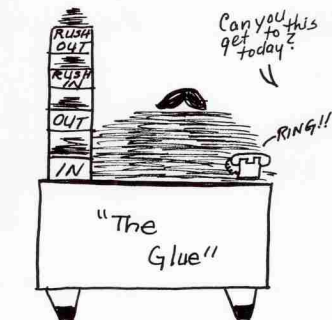


From Left to Right: JACKIE EVANS, Sec.; Judy Stallings, Sec.; Back Row: ROBERT J. WEIR, Director, Ph.D., N.C.S.U.; JERRY R. SPRAGUE, B.S. N.C.S.U.; ROSINA D. RUBES, B.S. Oregon State; FLOYD E. BRIDGWATER, Ph.D., Oklahoma State Univ.; STEVEN E. MCKEAND, Ph.D. N.C.S.U.; VERNON W. JOHNSON. Not Pictured: J.B. JETT, Ph.D. N.C.S.U.; ALICE V. HATCHNER, GREGORY V. FERGUSON, B.S. N.C.S.U.; ADDIE BYRD.

## SECRETARIES



Front Row: MARY WALKER, Acc't Tech., ADELA LAMSON, CAMCORE. Second Row: JANET LUCAS, Wood and Paper Science; MARTHA HOLLAND, Hardwood Coop; JUDY PARKER, Forestry. Third Row: DIANE BERNGARTT, Forestry; SUE HARKINS, Forestry; JUDY STALLINGS, Tree Improvement; ANN PLEASANT, Student Affairs. Fourth Row: REGGIE POWELL, Recreation Resources Admin.; NANCY ROBERTS, Administrative Assistant, Administration; SALLY PAT-



TERSON, Administration. Fifth Row: ROSINA RUBES, Data Proc. Ass't, Forestry; CHARLOTTE SWART, Administrative Assistant, Student Affairs; GINNY HUGHES, Forestry. Sixth Row: YOSHIKO CHEU, Res. Tech, Wood and Paper Technology; MARJATTA HASSI, Res. Ass't, Wood and Paper Science; DEBBIE PATTERSON, Forest Fertilization; PAT EVERETT, Recreation Resources Admin. Back Row: MILLIE SULLIVAN, Wood and Paper Science

## LIBRARIANS



Left to Right: PAM ROWLAND, KIMBERLY VAN ART, PAMELA PURYEAR, M.L.S. UNC-CH

## AT THE TIME



**WEATHER FORECAST: "Scattered snow flurries , no accumulation expected."**



Smokey the Bear

**This year Smokey the Bear celebrated his 50th Birthday. For fifty years Smokey's message to us has been simple and straightforward: "ONLY YOU CAN PREVENT FOREST FIRES."**

# STUDENT ORGANIZATIONS

## Put a Little Fun in Your Education

by Leslie Doss

The Forestry Club at North Carolina State University is very proud to be one of the most self-supporting and active clubs on campus. Our substantial budget is maintained by a unique fund-raising activity—tree jobs. What is a tree job? It is our main source of income, it occurs Saturday mornings beginning at 8:00, and it is a service to residential landowners. A tree job involves locating and bidding on jobs, consulting with the landowner, and trimming and/or removing trees without damaging property. Tree jobs are not the highlight of the club year, but without the income they generate, many exciting activities would be impossible. We extend special thanks to our tree job and equipment chairmen for this year: Jimmy Robinson and Timmy McCracken (Fall 1983), and Rod Krutulian and Scott Fortner (Spring 1984).

The spring semester began with meeting attendance and some high hopes for the next four months. We provided technical and safety expertise for the University Volunteer Services firewood cut, "Wood for Warmth." Over 60 cords of wood were cut, split, and stacked by campus-wide organizations for the needy of Wake County.

Spring semester also brought preparation for the highlight of the year—the 27th Annual ASFC Conclave, hosted by LSU and LA-Tech near Baton Rouge, Louisiana. Although the bus ride was long, hopes were high and the spirit of competition and sportsmanship prevailed.

As the school year drew to an end, one final activity

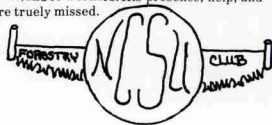


So where do all these funds go? Our hard-earned money goes toward annual events sponsored by the Forestry Club for its members and for other students in the School of Forest Resources. Fall semester kicked-off with a hamburger/hotdog cookout for club members, and especially for freshmen, transfer students, and potential new members. Then, in October, we sponsored a pig-pickin' for everyone, complete with all the "oink-meat," fixin's, and beer you could handle.

Later in the fall, the Forestry Club was asked to exhibit old-timer logger's skills at the 1983 Carolina Loggin' Demo, in Grifton, N.C. The group was a hit, providing the only hands-on exhibition at the Demo. These old-time logger's skills are the basis for the most important event of the Fall—Rolloe. Rolloe is an inter-class competition of the skills. This year the seniors, placed first, sophomores second, and juniors third.

remained: The Logger's Brawl. The event provided club members and their guests with an evening of bluegrass music, dancing, beer, and loads of fun.

The club extends special thanks and appreciation to our faculty and technical advisors: Dr. Jim Gregory, Dr. Richard Braham, Bill Smith, Dr. Maurice Farrier, Moreland Gueth, Jim Orrell, Cullen Whitley, and Tommy Poe. We would also like to express our respects for our head advisor who passed away this year—Dr. T. V. Gemmer—with deepest sympathy to his family, friends, and co-workers. His presence, help, and friendship are truly missed.



## Council Seeks Unity



The Forestry Council was the first school council organized at North Carolina State University. It is funded by student fees and when possible by contributions from the Dean of the School. The Council's purpose is to promote the overall unity of the students in the School of Forest Resources. The Council accomplishes this through its diverse membership. Along with the offices of President, Vice-President, Secretary, and Treasurer, the membership also includes a representative from each department and each undergraduate club. The Council's duties are to administer and budget student funds allocated to the school, resolve current problems common to the students or faculty, nominate for Outstanding Teacher and Alumni Distinguished Professor Awards, and to encourage greater cooperation and communica-

tion between students and faculty of the School of Forest Resources. An equally important duty of the Council is to appoint officers of the Pi-ne-tum and allocate funds for its publication.

The Council had a productive year with many ideas, benefiting the entire school, discussed and acted upon. The Council again this year successfully conducted a food drive during December. As a result of the excellent support by the faculty, staff, and students a large amount of food was collected to help feed a needy family in Raleigh.

As intended, the actions of the Forestry Council through funds and support help in promoting unity between students and faculty.

---

## Wood is Weird

by John F. Lyons

The N.C. State student chapter of the Forest Products Research Society, founded in 1951, was the first college chapter of FPRS organized in the United States. To maintain original objectives of "promoting good fellowship among students" and "providing closer contact between students and the wood industry," new as well as old ideas were used in this year's programming.

The 1983-84 school year started early for some of the club's members. At the 37th Annual Meeting of the Society in Norfolk, VA, the National Chapter was graced by having members from our club attend and

operate audio-visual equipment for the week. Virginia Beach was only 20 min. away!

With school in session, the fall picnic was planned and held at Schenck Forest. Having it rain on the last three picnics led us to believe that this one might be dry, but who argues with tradition? Many turned out and enjoyed the constant flow of beer and burgers as well as an unexpected crash course in night orienteering. The spring picnic held in April was every bit as enjoyable.

The club supported higher education by having



members speak to 120 high school juniors and seniors in Thomasville, NC, emphasizing what the wood technology industry has to offer and how to get involved. The trip was also worthwhile in that we returned with an oak rocker for the club to raffle off. Congratulations to Doc Steensen for finally winning a raffle here at State!

Athletically, the club was active with an outstanding co-ed volleyball game (5-1 record) in the fall and men's softball in the spring.

Speakers for our meetings came from a variety of

areas ranging from NCSU to Boise Cascade Company. Shipwright John England enlightened a record crowd when he spoke on his construction of the replica sailing ship "Elizabeth II" just two weeks after she was launched.

Officers for the 1983-84 academic year were John F. Lyons, President; Denise Johnson, Vice-president; Douglas Frei, Secretary; Alan Smith and Joseph Roberts, Treasurers; Todd Brown and Brook Holley, Program Chairmen; with Frank Willey and Max Gardner as Athletic Chairmen.

## Pursuing Education and Fun



by Stacey Barbour

To start the fall 1983 semester off with a hit, the Recreation Club and the Forestry Club battled out a competitive softball game on the field behind Biltmore Hall. Debate will continue over who won the game, but everyone admitted it was fun.

Raising funds for the annual spring Recreation Internship and Summer Employment Conference was the first big activity club members undertook. A raffle was held as the main money making project. Two tickets to the State-Carolina football game and a vacation trip for two to Fairfield Harbor resort near New Bern were the winner's prizes. The raffle was a success at raising several hundred dollars for RISE.

Keeping the importance of recreation in mind, members attended several football games as a

block group. Before the games spirits were lifted with the traditional tail gating festivities in the field around Carter-Finley Stadium. Gallons of beer were chugged down and pounds of fried chicken were eaten while frisbees floated across the cars and stereos echoed the popular hits of the time. The Wolfpack may not have won all its games, but the Recreation Club members enjoyed them never-the-less.

On January 25, 1984 the RISE Conference was held in the Student Center Ballroom. The club sponsored and helped organize the annual event. More agencies and employers attended RISE than in the previous years and students found many people to talk to about internships and jobs. The Conference was concluded with a luncheon buffet for students, faculty, and agency members. At the luncheon alumni were recognized and all the employers updated on the Recreation program at State.

The club co-sponsored the 1984 Recreation

Banquet with Rho Phi Alpha in March. Again students, faculty, and park and recreation professionals congregated to socialize and talk about affairs in the field of parks, recreation, and leisure.

The Student Division of the North Carolina Recreation and Park Society convened in Biltmore Hall in April for a Mini-Conference. Club members also helped organize this event. They contacted speakers, sold program advertisements, and offered housing to some of the visiting students. At the Mini-Conference the Recreation Department's computer achievements were shared and students were escorted to some of the area's diverse recreation and park facilities. Students also listened to several speakers such as NCRPS President Tom Wells at the two day meeting.

The 1983-84 Recreation Club officers were President Derrick Griffin, Vice-President Thomas Betts, Treasurer Natalie Faessler, and Secretary Paulette Irvin.

## Growth Through Service and Leadership



by David Saxe

Rho Phi Alpha is a national honor fraternity for recreation and park administration curricula. The fraternity was established by Dr. Tom Hines, the former department head of N. C. State's nationally accredited recreation curriculum. Rho Phi Alpha helps potential professionals to establish sound personal philosophies through service and leadership.

Projects for N. C. State's Alpha chapter in the '83-'84 school year included participation in Open House. Rho Phi Alpha members and Recreation

Club members, as well as faculty, interpreted the Recreation Resources Administration curriculum to potential students, parents, secondary school educators, and other visitors on the State campus that weekend.

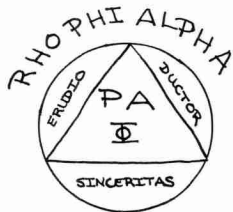
Soon after Open House, the initiation and induction of new members took place. Six new members were inducted at the Pack House in a candlelight ceremony. Each new member expressed enthusiasm in the honorary fraternity and immediately took on active roles in the organization.

Rho Phi Alpha helped make Christmas more enjoyable for underprivileged families this past December. In conjunction with the local U.S. Marine Reserve Unit and the Salvation Army, Rho Phi Alpha collected toys from Thanksgiving through mid December. State students and the local community contributed toys to this successful program.

One of the biggest Rho Phi Alpha news items this year was the merger with Sigma Lambda Sigma, a recreation honor fraternity at Florida State University (FSU). Dr. Roger Warren, Rho Phi Alpha faculty advisor and department head, met with his contemporary from FSU, Dr. Frances

Cannon, at the National Recreation and Parks Association Conference in Kansas City this past fall. The meeting resulted in a draft constitution and by-laws for a single national recreation honorary fraternity. Chapter President Kevin Ewbank said, "It's good to see coordination between recreation students across the nation."

Rho Phi Alpha will continue to further students' professional growth. As many chapter members graduate this year, the leadership roles will be passed on to other recreation students to improve students' awareness of the recreation profession.



## High Technology

## Awakens Foresters



by Lori Yedwabnick

The student chapter of the SAF began the 1983-84 school year with the installation of new officers. This year's officers were: Chairman, Todd Wilson; and Vice-Chairman, Lori Yedwabnick.

The chapter's major activity was attending the 63rd Annual Meeting of the Appalachian Society of American Foresters held in Charlotte, North Carolina, on January 25-27. The theme of the meeting was "High Technology-Applications from Seed to Market." Seven members were able to attend the meeting thanks to Dean Ellwood and the Forestry Alumni Association. Tissue culture, remote sensing, nursery practices, silvicultural choices, biotechnology, and the use of computers in forestry were among the topics presented at the meeting. The highlight of the meeting was the Student Forum which discussed the demand for foresters in the future.

The convention experience gave members a renewed

sense of commitment to making their organization a vital part of their forestry education. During the remainder of the year, the student chapter and the forestry club held joint meetings and participated in social activities and business ventures together. As a result of the strengthening of both number and dedication, the organizations enjoyed a successful year.

The chapter, as a whole, extends its appreciation to advisor Bill Smith for his continued support and advice, and to Dean Ellwood, Arthur Cooper, Donald Steensen, Jim Gregory, and Larry Jervis for their support and enthusiasm at the 1984 Appalachian Society Meeting.

We look forward to increasing memberships and continued success in the future.



## Leadership, Scholarship Xi Sigma Pi



by Karen Papke Miller

Xi Sigma Pi is the oldest and the largest national Forestry Honor fraternity originating in the colleges of the United States. The intention of Xi Sigma Pi is to honor the student who excels scholastically and who has a personality that would tend to make him successful in forestry work. And the fraternity stands for high scholarship and its members, both individually and collectively, encourage forestry activities at the institutions with which they are connected by active participation in the projects of their respective forest clubs and by special chapter projects for encouraging the development of leadership in school activities.

In 1940 the twelfth chapter was established at North Carolina State College as the Mu Chapter. Our chapter has had a busy year. We are an active honor fraternity in the School of Forest Resources with members from Forestry, Pulp and Paper Science and Technology, Wood Science Technology, Recreation Resource Administration

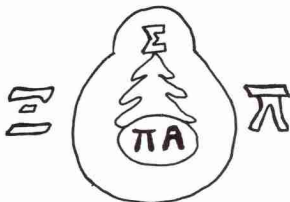
and Wildlife.

Through initiations in both the fall and spring, we recognize scholarship and leadership among juniors, seniors, graduate students and faculty. Xi also presents the Outstanding Freshman award to the highest ranked freshman. For the 1982-83 year the award was given to Robert Blohm in Pulp and Paper Science and Technology.

Xi Sigma Pi also sponsored fall and spring smokers, a steak dinner and the senior picnic. Beginning in the spring short, educational but entertaining films were shown at the meetings.

Officers for the 1983-84 year were: Forester-Karen Papke Miller, Assistant Forester-Paul Davison Fiscal-Secretarial Agent-Lori Yedwabnick, Ranger-Leslie Doss, Forestry Council Representative-Scott Fortner.

This year we would like to express our gratitude to our advisor, Dr. Steensen, and to Charlotte Swart for their continued guidance and assistance.



## UNITY AND FUN

The Forest Resources Association of Graduate Students, (FRAGS), is composed of all the graduate students from the Forestry, Recreation Resources Administration and Wood and Paper Science Departments. FRAGS is part of the campus wide Graduate Student Association, which provides a source of funding and communication with various graduate students and

administrative agencies. The chairperson, treasurer and a representative from each department form the Executive Committee, which provides an effective means of relating concerns and information from graduate students to the school administration. The chairperson of FRAGS for 1984 is Mark Megalos and the treasurer is Carl T. Thurman; the departmental representatives





are: Peter Ades (Forestry), Vic Garber (Recreation), and Web Hatley (Wood and Paper Science).

FRAGS plays an important role in welcoming new students both informatively and socially. This done in two ways: by sending 'welcome'

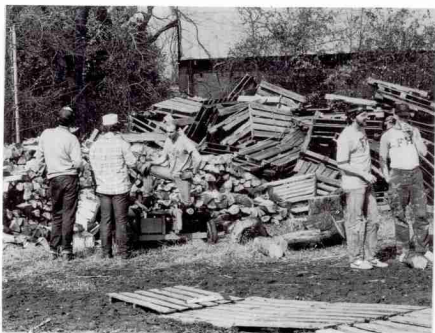
information packets and by sponsoring fall and spring picnics which allow for informal meetings with faculty and other graduate students in the School of Forest Resources.

We appreciate the dedicated efforts of the Pi-ne-tum staff in the preparation of this journal.

---

## STUDENT ACTIVITIES

School of Forest Resources students participate in "Woodchop." Faculty and students chopped wood for the needy of Wake County.





SUMMER  
CAMP

CURS

OF

SUMMER

by Floyd Whitley

"Young William," I said as we were barreling posthaste west on I-40, "you see that big red sun setting out there? You know what it's telling me? It's saying 'go west, young man, go west.'" Young William said something about it telling him to go back to bed. It certainly didn't seem to be telling us to hie ourselves to Hill Forest. I mean, summers are supposed to be glorious bikinis baking on the beaches, fun in the sun, romp and stomp. The last thing it was supposed to be was texts and tests, tracts and maps, and the last thing either of us wanted to do was to spend the heat and heart of summer in Slocum Camp. Like two curs with their tails tucked and slinking, we rolled into Slocum Camp (late again) to take the beating. It would be, we surmised, a long summer.

During lunch in the camp messhall the following week, one wondered, at the count of 23, how many more ticks could possibly be left in Hill Forest. Not only had they, the vicious varmits of twice-cursed yellow flies, and Sonny's jokes become unbearable, but Doc's legs poking out of baggy madras shorts were poor substitutes for luscious bathing beauties. And the sun? Oooooe! It had not yet begun to bake! Along with the rising temperatures of Carolina's red hot clay,

however, something else was changing. Lives were beginning to bond together, to cohere in the kiln of summer as instructors plied their arts at the potter's wheel.

Somehow, when Russell hit himself on the head with a Sandvik, everyone felt his pain as he went from one accident (miraculously) to the next. Somehow, through conjuration and cursing, and looking doggone woebegone, Doc got his antique sawblade mess gong back. Somehow, in the incredible badgering and bartering for insects in Farrier's collection, everyone was an ally (though some still owe their first born male children). Somehow, Slocum Pond is still in existence after Buddha Tedder's mammoth belly flops. Somehow, it all happened so fast, and it was finished, ceramic.

"Young William," I said as we were barreling posthaste south on U.S. 501, "camp wasn't so bad after all." Young William said something about you have to be kidding. "Well," I joked, "considering the alternatives..." Young William interrupted and said he knew... "fahr eeel key ya." We drove away howling.

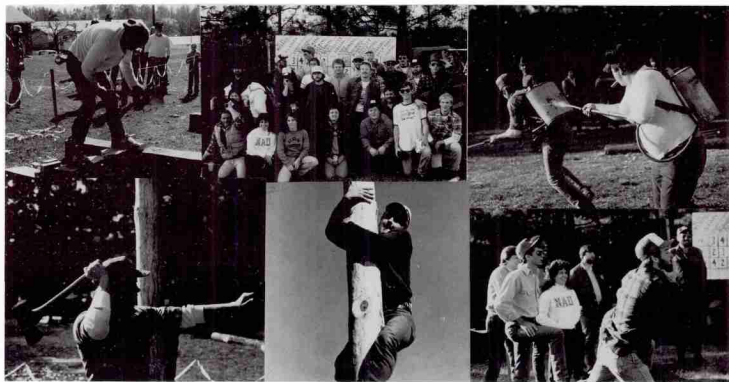
## 52 YEARS STRONG — ROLLEO

by Audrey Hockaday

This year everyone gathered out at the Genetic Gardens on a clear but cool Saturday morning for a little fun and competition. It was time for each Forestry Club class team to prove its old-time logging skills. Rolleo is an annual event and the club's highlight of the fall semester.

The seniors opened the competition with an impressive win in the chainthrowing by Martha Doss. The sophomore log rolling team of Tim McCracken and Rod Krutulis rolled their way to a nice win with great team work. They barely squeaked by an enthusiastic junior team. The seniors then rallied to win the next two events hands down. Paul Davison scampered his way to the top of the pole in poleclimb much faster than any of his competition while his

himself and the sophomore team another first place when he won bowsawing. The senior women's crosscut team, Leslie Doss and Leslie Horton proved that experience is best when they cut their way to a nice victory. The juniors then decided to win an event. Andrew Casey and Mike Tedder showed everyone the proper technique needed to win men's crosscut. Inspired by their win, the junior class had the strongest men by winning the pulpwood toss. Andrew Casey and Audrey Hockaday then won the Jack-and-Jill crosscut. Following the crosscut events was the "bacca" spitting contest. Senior Dave Eckard showed everyone why he was the 1983 conclave champion by claiming another victory for the seniors. Junior team member Jimmy Robinson proved he had mastered the art of beer chugging by being the first one to down his



teammate Richard Morris won knifethrowing. The sophomores, determined not to be out thrown, proceeded to win the axe throwing contest. Their excellent axe hurler was Tim McCracken.

The afternoon was filled with beer and speed cutting events. Everyone was really fired up by the warming afternoon sun and gave each other stiff competition in the remaining events. The first cutting event of the afternoon was one that tests its competitors' stamina, speed chopping. Senior team member Scott Fortner proved he had what it took and won with a slim victory over an impressive sophomore, Rod Krutulis. Next with truly a team effort the seniors showed everyone the right way to fell a pole perfectly when they won the polefelling contest. Tim McCracken won

beer legally. Senior chugger Chuck Daniels had a problem with the legal aspect of the contest and spilled his beer for the only disqualification of the day in any event.

The funniest event of the day, which at this point had turned to late afternoon, was the firefight. Steve Jacobson found no way to put out Mike Tedder's cigar and Tedder won the contest without any problem—so, hey, Tedder what's your secret?

As the sun went down so ended the 1983 Rolleo, but not the club's enthusiasm. The seniors won overall with an impressive score, giving the club great hopes for conclave 1984.

# Getting Bigger and Better

by Amy Washburn



On January 25, 1984 the 5th annual Recreation Internship and Summer Employment Conference, RISE for short, was held. This year's event proved to be bigger and better than previous Conferences. This year's chairpersons were Amy Washburn and Jennifer Strickland.

The purpose of the RISE Conference is to allow students the opportunity to seek employment with recreation agencies whether it be for summer employment, and internship, or possible full-time employment. The agencies represented at the Conference come from all concentrations offered in our curriculum. For some students this is the first time they have ever had the opportunity to interview with an agency of their

chosen field.

The Conference's day consisted of semi-formal interviews starting at 9:00 a.m. and breaking at 12:00 noon for any additional interviewing that needed to be done and lasted until 4:00 p.m. There was a social held at the end of the day's activities.

This year was the first year that the Conference was publicized campus wide and it proved to be successful. The Conference attracted over 100 students and over 30 agencies were represented. There were also over 100 job openings being offered this year for both full and part time employment. All in all this years RISE Conference was truly a success.



# CO—OPING NOT JUST EXPERIENCE, AN EDGE

by Martha Doss

As freshman and sophomores, we are encouraged to pursue new challenges and opportunities that forestry has to offer. We are told that the next few years are critical for them mold who we are as foresters and build a foundation from which we begin a directed professional career. Practical hands-on experience through co-oping cements and strengthens that foundation, builds confidence, and bridges a gap before that first professional appointment.

The Forestry Co-op Program is an organized work-study program supported by industry and government agencies. It is designed to give meaningful job experience intermixed with schoolwork. Interested sophomores and juniors participate in an interview process from which co-op assignments are made, given both the student's and the agencies' needs. This is the first benefit from co-oping—having a choice. How often in forestry can one have a choice in a first of placement?

Now that you have a job, who you work for determines the range and type of job experience. A training plan outlines specific job responsibilities and goals. Beginning co-op students are typically part of crews working with technicians. Tallying, timber

cruises, surveying roads and prescribed burning operations are examples of crew-oriented experiences that teach not only forestry skills but valuable skills in working with other people. Classwork becomes more meaningful when backed up with previous job experience. Experienced upperclass co-op students are given more job responsibility and individual projects. As a professional, you may not be doing these jobs but rather be supervising crews.

Co-oping does involve moving to new areas and establishing yourself within the community. Moving from Raleigh to a small town where the sidewalks roll up at 5:00 p.m. can be a drastic change for many. However, having the opportunity to move to totally different areas extends your horizons and makes you appreciate student life (exams?). Moving to a new place and starting a new job will be much easier the next time.

Primarily, co-oping is a blend of experiences. You discover your weaknesses and strengths in a working situation under less stress than that facing a beginning level forester. Co-op job experience is the edge in getting that first job and knowing what direction you want to go.

---

## *Past Words, Future Hope*



*"Many a tree is found in the wood,  
And every tree for its use is good...  
The trees have offered their gifts  
to man."*

*Henry VanDyke*

*Reprinted from the First  
Pi-ne-tum*

# DOWN ON THE BAYOU

Spirits were high as the Forestry Club travelled south to Conclave 1984 held near Alexandria, Louisiana. The 24 hour marathon bus ride was tiring, but the club possessed the right ingredients for a successful conclave: preparation, motivation, and camaraderie.

Club members dedicated many long hours in preparing for their events. Afternoon practices were held for physical events in the hopes of improving techniques and times. Members involved in technical events were assisted by professors.

Motivation to excel at technical and physical events comes from the desire to apply and sharpen forestry skills. Physical events remind us of how far we've come from the days of the lumberjack and strengthen our pride in our profession. Traveling to other regions exposes us to different silvicultural practices, different people, and broadens our potential as future professionals in the field.

In Jackson, Mississippi, the club was given a tour

of Forestry Suppliers, Inc. There we were introduced to new innovations in forestry equipment ranging from string chains to computer programs.

The Conclave started with a bang when David Fontenot picked the winning crawdad. The N.C.S.U. foresters finished first in the Crawdad Race!

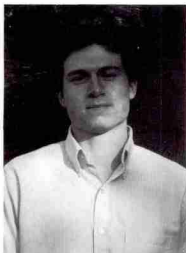
Exceptional second place performances were turned in by Scott Fortner in timber estimation and Keith Newcomer in dendrology. In the women's crosscut, Leslie Horton and Leslie Doss teamed up to take fourth place. Our only freshman member, Ken Peedin took fourth place in compass and pacing.

Special thanks go to Bill Smith, Rich Braham, Moreland Geuth, Heather Cheshire, and Bob Gilmore. We could not have done it without you.

The club's overall performance was sixth place, but watch out Wahoos, Tigers, and Razorbacks, the Pack is on the prowl!



# FOREST RESOURCES SENIORS



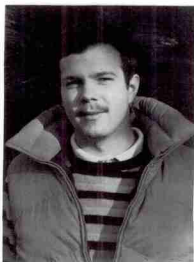
## FORESTRY

**Michael R. Austin**

SAF, Forestry Club

**Hunter Birkhead**

SAF, Rho Phi Alpha,  
School Forest Work Crew



**William Blake**

**David Bradley Coe**

Xi Sigma Pi, SAF

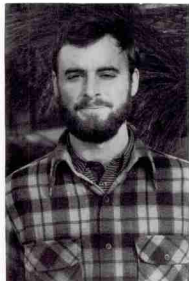


**John Connor**

School Work Crew,  
Forestry Club, SAF

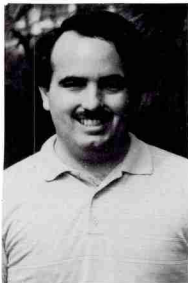
**Chuck Daniels**

SAF, Forestry Club



**Paul G. Davison**

Xi Sigma Pi,  
Forestry Club,  
School Work Crew



**Joseph P. DiModica II**



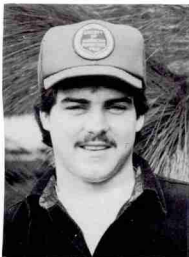
**Leslie G. Doss**

SAF, Forestry Club President,  
Forestry Club Vice-President,  
Xi Sigma Pi Ranger,  
Forestry Council  
Representative,  
Senior Honors Seminar



**Martha S. Doss**

Co-op Student,  
Forestry Club Secretary  
and Treasurer



**Ashley K. Faircloth**

SAF



**Danny W. Forbis**

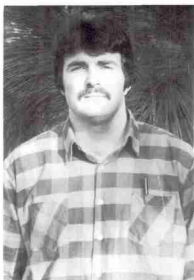
Xi Sigma Pi





**Scott Fortner**

Forestry Club, Xi Sigma Pi,  
Forestry Council  
Representative,  
Senior Honors Seminar, SAF



**David M. Fontenot**

SAF, Forestry Club,  
Recreation Club



**John Friedheim**

Xi Sigma Pi, SAF,  
Captain of Rowing Team



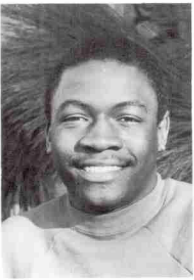
**Michael Gomez**

SAF, School Work Crew,  
CO-OP Student



**Charles L. Haas**

Forestry Club



**Victor L. Harris**

Forestry Club,  
School Work Crew



**Leslie J. Horton**

CO-OP Student, Forestry Club,  
Pi-ne-tum, SAF



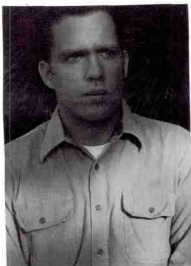
**William C. Hurst**

SAF, Xi Sigma Pi

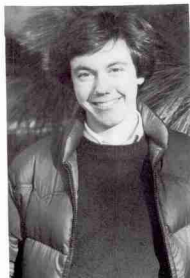


**Steven E. Jacobson, Jr.**

Xi Sigma Pi, Campus Advance

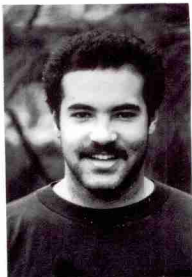


**David L. Jennette**

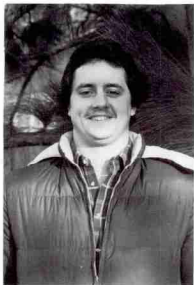


**Michael Kirchner**

Inter Varsity,  
Christian Fellowship, SAF,  
Xi Sigma Pi



**Cedric Locklear**



**Gary McMahan**

Xi Sigma Pi, SAF



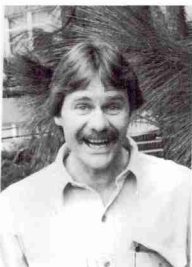
**Bernie Miller**

Xi Sigma Pi, Rho Phi Alpha



**Karen Papke Miller**

National Student Exchange,  
Xi Sigma Pi (Pres.),  
SAF, Phi Kappa Phi,  
Senior Honor Seminar,  
CO-OP Student



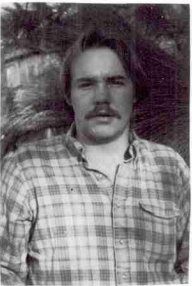
**Richard Morris**

SAF, Red Cross Volunteer

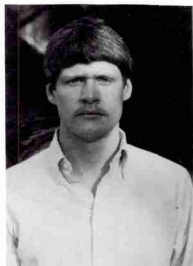
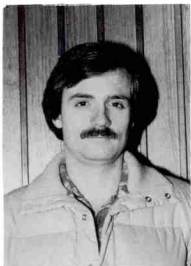


**Keith Newcomer**

Xi Sigma Pi, SAF,  
Forestry Club



**Everett D. Puckett**



**John A. Robertson Jr.**

SAF (Nat & Stud Chapter),  
Forestry Club Prog. Chairman,  
Forestry Council (For Club  
Representative)

**Allen Waddell**

School Work Crew, SAF



**Lori Yedwabnick**

SAF, Xi Sigma Pi,  
Forestry Club,  
School Work Crew



**The right way to fell a pole----FORESTRY**

**SENIORS are 'Right on the Money.'**

Pulp and Paper  
Technology



**Tony Burnette**

TAPPI,  
Inter-Varsity,  
Christian Fellowship



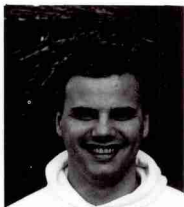
**Med Byrd**

Xi Sigma Pi, Golden Chain  
N.C. Fellows Program,  
Resident Advisor, Band,  
TAPPI



**F. Gray Carter**

N.C. Fellows Program, TAPPI  
AIChE, Assistant Attorney  
General (1982-83)



**Sam Chinnis**

TAPPI, Vice-President (82-83),  
President (83-84)

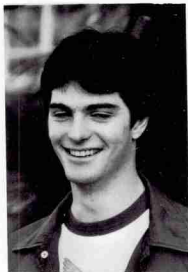


**Judith K. Coen**



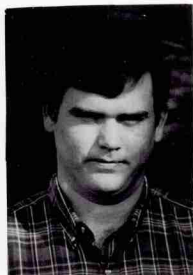
**Alexandria Collins**

TAPPI (Treasurer), AICHE



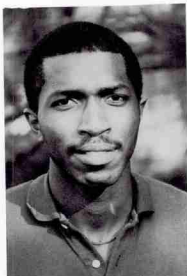
**Andrew Gresham**

TAPPI, AICHE



**Ray Howard**

TAPPI, FPRS



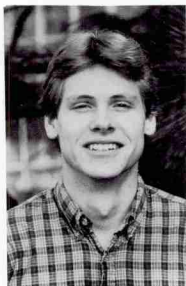
**Robert Horry**

TAPPI, SAAC,  
Circle K Organization,  
Mentor Program



**Edward M. Inman**

TAPPI



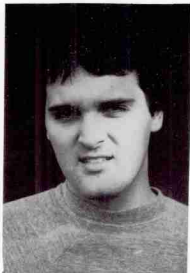
**Mark A. Johnson**

TAPPI, AICHE  
Intramurals,  
Brass Sextet



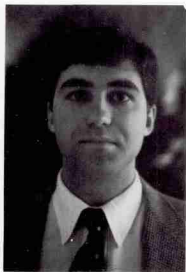
**Margaret Kehoe**

TAPPI, AICHE



**John S. Lovelady**

TAPPI



**Dale Midyette**

Farmhouse Fraternity,  
TAPPI, Student Senate



**Alan Moore**

TAPPI



**Jeff Murray**

TAU BETA PI, TAPPI



**Neal Stephenson**

TAPPI, Collegiate 4-H

Wood Science  
Technology



**Hugo Robert Anthony III**



**David Todd Brown**

FPRS Program Chairman,  
Forestry Council

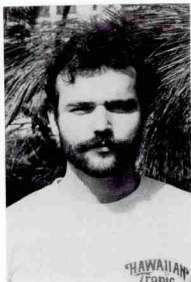


**Charles Davis**



**Douglas Burton Frei**

FPRS (Sec 1983-84),  
Marching Band 79-84,  
Pep Band 79-82



**Max Gardner**

FPRS





**K. Brook Holley**

FPRS Program Chairman



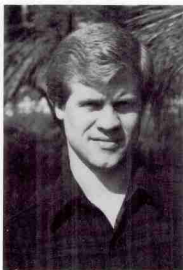
**Denise E. Johnson**

FPRS Sec. 82-83,  
Vice-President 83-84

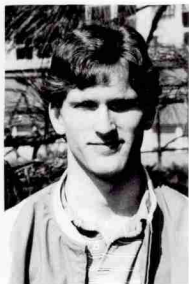


**Douglas A. Long**

Forest Producers Research  
Society

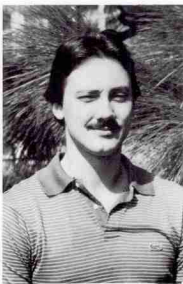


**Byron Mitchell**



**Robert Stuart**

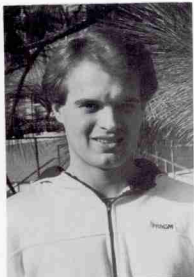
Forestry Council President  
FPRS



**Frank T. Willey, Jr.**

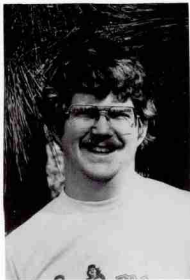
FPRS Athletic Director

## Recreation Resources Administration



**Bryan Blanton**

N.C. Recreation and  
Park Society



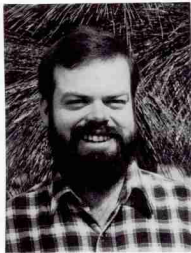
**Kevin D. Ewbank**

Recreation Club, President Rho  
Phi Alpha,  
Xi Sigma Pi, Scholars in  
Residence Program



**Marcie L. Fleishman**

Recreation Club, Alpha Phi  
Omega,  
National Service Fraternity



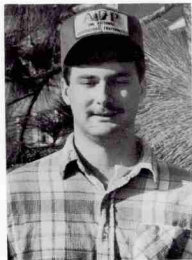
**James A. Heath**

Recreation Club



**Debra A. Hooper**

Forestry Council, Recreation  
Club,  
Forestry Club, Alpha Gamma  
Rho Fraternity,  
N.C. Recreation and Park  
Society



**John M. Howell**

Alpha Gamma Rho Fraternity



**Karl E. Landgren**

Circle K, Soph. & Jr. Year



**Lisa McSherry**

Farmhouse Fraternity  
Little Sister



**Maureen M. Murphy**

Editor, Pi-ne-tum,  
Recreation Banquet  
Co-Chairperson,  
Recreation Club, Varsity  
Women's Tennis



**Emily L. Shaffer**

Phi Kappa Phi, Rho Phi Alpha



**Amy Washburn**

RISE Co-Chairperson, Alpha  
Gamma Rho  
Little Sister, Alpha Phi,  
Recreation Club



**Heath White**

Forestry Council, Rho Phi  
Alpha,  
Recreation Club

## At a Glance



"Why make things more difficult than you have to."



"Garbage In, Garbage Out"



"The 'Vertical' Slide"



"The Fleet"



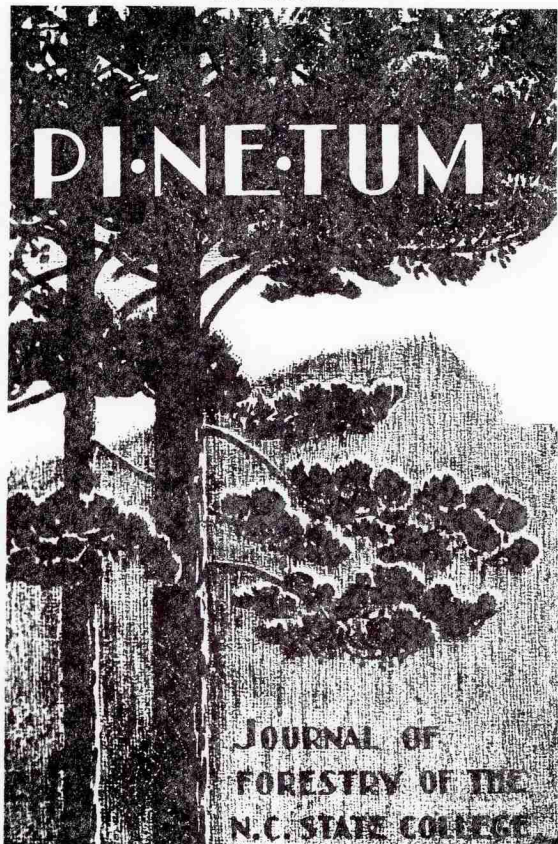
"Bubbas' side of the bus"



"Did someone say free food?"

FIFTY YEARS AGO...

The First Cover



## An Endless Trail ...



*I cannot soon forget a wooded trail,  
Each shadow blending into patterns rare;  
The memory of the birch, the twisted oak,  
The tall, straight pine, the birch that greets one there.*

*When life, in sterner mood, brings troubled hours,  
The peace of trees along shadowed way,  
Is mine to care to heart when'er I will,  
Is promise of a calmer, gentler day.*

*Reprinted from the First Pi-ne-tum, back cover.*

# PI-NE-TUM STAFF

## EDITOR

MAUREEN MURPHY

## BUSINESS MANAGER

LESLIE HORTON

## PHOTOGRAPHER

TONY MEBANE



## ASSISTANTS

Heath White

Terry Johnson

The Pi-ne-tum staff would like to thank the following people for their support and guidance.

Charlotte Swart  
Ann Pleasant  
Larry Jervis  
Gary Blank  
The Forestry Council  
Parker Graphics

Without the help of these individuals the publication of this journal would have been a lot harder.



The 'NEAT' way to do things.

# Patrons

## Weatherman's Jewelers

*W. R. Ball FOR 1961*

*J. C. Barber FOR 1950*

*J. S. Barker, Jr. FOR 1939*

*J. L. Bell FOR 1940*

*C. E. Blackstock FOR 1948*

*E. Bryan, Jr. FOR 1969*

*B. W. Champion FOR 1975*

*B. W. Conner FOR 1963*

*W. E. Cooper FOR 1932*

*H. M. Crandall FOR 1936*

*Milo Crawford FOR 1980*

*R. M. Cullom FOR 1967*

*P. L. Davis FOR 1937*

*W. C. Deaton FOR 1949*

*O. C. Dodge FOR 1959*

*C. A. Fox FOR 1937*

*S. W. Gregg FOR 1959*

*D. L. Grimsley FOR 1961*

*H. D. Hannah FOR 1960*

*R. J. Hare FOR 1950*

*J. M. Hayes FOR 1962*

*D. B. Hearn FOR 1970*

*V. M. Herlevick FOR 1948*

*L. H. Hobbs FOR 1938*

*R. A. Holcombe FOR 1944*

*H. E. Howard FOR 1930*

*J. H. Hughes FOR 1967*

*G. E. Jackson FOR 1935*

*J. V. Jackson, Jr. FOR 1952*

*W. T. Jones FOR 1949, WST 1956*

*G. H. Jones CON 1974*

*H. C. Martin FOR 1939*



# Patrons

*J. C. Masten FOR 1951*

*A. H. Maxwell FOR 1932*

*A. A. Novitt FOR 1940*

*R. C. Overby FOR 1950*

*J. G. Palmer FOR 1973*

*J. L. Pardue FOR 1978*

*C. C. Pettit FOR 1936*

*J. E. Pickard, Jr. FOR 1971*

*D. C. Plaster FOR 1934*

*K. A. Pollock FOR 1978*

*J. P. Pridgen FOR 1960*

*C. T. Prout FOR 1934*

*W. W. Rogers FOR 1967*

*M. N. Shaw, Jr. FOR 1950*

*J. M. Sherrill FOR 1972*

*J. F. Shotwell, Jr. FOR 1965*

*R. W. Slocum FOR 1939*

*W. R. Smith FOR 1934*

*L. J. Smith, Jr. FOR 1948*

*R. L. Starnes FOR 1970*

*J. J. Steele FOR 1939*

*T. F. Stroup FOR 1966*

*R. P. Tayloe FOR 1957*

*T. L. Thrash FOR 1954*

*W. H. Utley FOR 1936*

*J. Watson FOR 1974*

*D. H. Weiller FOR 1963*

*D. C. Wilkerson FOR 1983*

*T. E. Yancey FOR 1949*

*J. M. Young FOR 1962*

# Congratulations Forest Resources Graduates



STUDENT SUPPLY STORES

# Patronize Our Advertisers

---



*FORESTRY  
FOXES*

---

## D·J·'S COLLEGE BOOKS

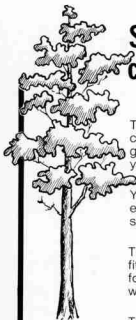


---

Donald H. Carroll, Owner  
2416 Hillsborough Street  
Raleigh, North Carolina 27650  
(919) 832-4125

*D J.'s TEXTBOOKS*

# WE BUY AND SELL TEXTBOOKS



## Some forestry basics cannot be bought.

The basics you'll use in your forestry career cannot be bought. They were given to you: your hands, your eyes, your mind.

You develop these basics through education and experience. And you supplement them with man-made tools.

That's where Forestry Suppliers, Inc. fits in. The tools we sell make it easier for you to develop the basics you were given.

Team up your basics with our tools for your success.



### Forestry Suppliers, Inc.

205 West Rankin Street  
Post Office Box 8397 - Jackson, Mississippi 39204

1-601-354-3565

## BAXLEY'S RESTAURANT & BUFFET

2500 Hillsborough St.  
(across from NCSU)

Serving  
5 a.m. to 4 p.m. Mon.-Fri.  
5 a.m. to 2 p.m. - Saturday

"Make It A Habit To Be Happy"

## THE FASTEST GUN IN THE WOODS

(And The Most Affordable)



### TRECODER™ spot gun

A must for the forester,  
logger, lumberman —  
anyone involved in tree  
marking operations!

- A Marking inks won't clog nozzle
- B Durable, corrosion-resistant brass barrel
- C Shatter-proof, easy grip polyethylene construction
- D Fast, easy "4-finger" trigger action...one squeeze and you've made your mark

For a brighter, longer lasting mark, use TRECODER Tree Marking Inks. Call or write for free sample.

Forestry Products Division



American Coding and  
Marking Ink Co.

1220 North Avenue, Plainfield, NJ 07062, (201) 756-0373

WENDY

DON

STUDENTS & STAFF

WELCOME

PERMS

HAIR DESIGNS

LUMUNIZE

FOR

STYLES

MEN & WOMEN



REDKEN

2402 HILLSBOROUGH ST.  
NEXT TO D.J. BOOKSTORE  
CALL FOR APPOINTMENT

821-4259

8:00am to 6:00pm

MONDAY - FRIDAY

TODD

RON

BRUNSWICK PULP AND N.C. STATE  
WORKING TOGETHER FOR BETTER FORESTS



Allan Short--CO-OP Student

Since its inception, the N.C. State forestry co-operative program has served to better train and educate the foresters of tomorrow. Has it succeeded?

Brunswick Pulp and Land Company thinks so, or it would not have hired several of its graduates.

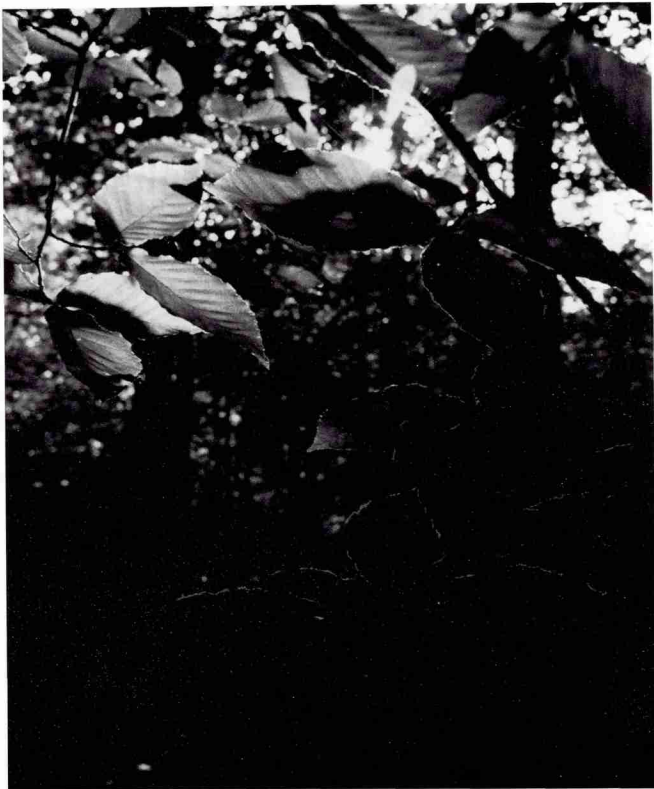
Brunswick Pulp is proud to be a participant in this program, which has as its goal better forests for America's future.



BRUNSWICK PULP & PAPER COMPANY



Brunswick Pulp Land Company



**We treat our Mother with respect.** As a company that makes its business from Mother Nature's abundance, it makes good sense to take good care of her resources. That's why we are devoted to the practice of silviculture and the wise forest management that goes with it. When you think about it, the soil is really our factory, so it's to our best interest—and the forest's also—to prevent the land from eroding and to keep the air and water clean. As

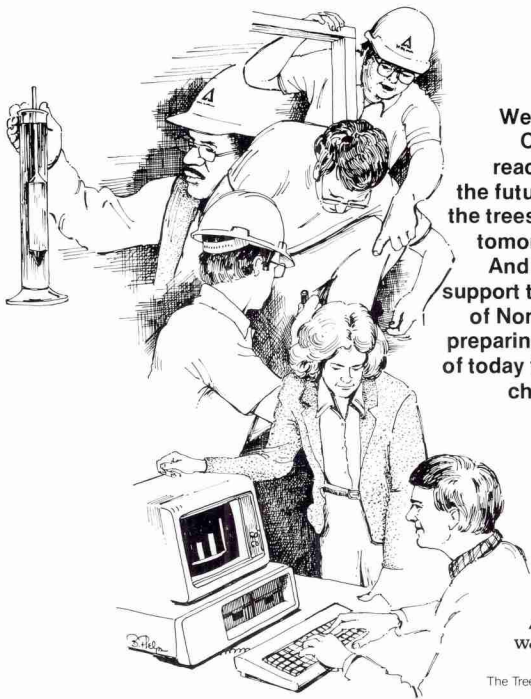
good stewards of the land, we take care of Mother Nature. And Mother Nature takes care of us.



**Chesapeake**

*Resourceful by nature.*

West Point, Virginia 23181 804/843-5000



**Weyerhaeuser  
Company is  
reaching out to  
the future growing  
the trees we'll need  
tomorrow today.  
And we proudly  
support the schools  
of North Carolina  
preparing the youth  
of today to meet the  
challenges of  
tomorrow.**



**Weyerhaeuser**

The Tree Growing Company

# "With enough trees, we'll all breathe a little easier."

"Trees, like other green plants, help purify the air we all breathe, by replacing carbon dioxide with oxygen.

"And with all the smoke, the exhaust, and the fumes in the air today, we need all the help we can get.

"The point is—we need our forests like never before. And we need to manage them wisely.

"Our job is growing. Help us all breathe a little easier. Write for information on what you can do."

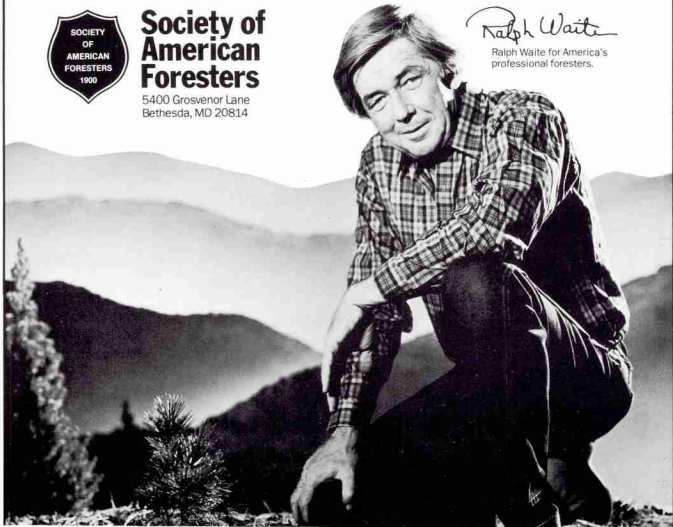


## Society of American Foresters

5400 Grosvenor Lane  
Bethesda, MD 20814

*Ralph Waite*

Ralph Waite for America's  
professional foresters.







# TIDEWATER EQUIPMENT COMPANY

"OUR SERVICE IS THE CUSTOMERS EDGE"

WASHINGTON, NC	919-946-6461
ROSE HILL, NC	919-289-2082
LOUISBURG, NC	919-496-5716
WADESBORO, NC	704-272-7685
FRANKLIN, VA	804-569-9500



Braided Hyd.  
Hose & Cplgs.



**ROTOBEC INC.**



WORLD'S LARGEST HUSKY HYDRAULIC LOG LOADER AND  
FRANKLIN LOG SKIDDER DEALER