

THE PI-NE-TUM

60th Anniversary Edition

1993-1994

The Journal of the
North Carolina State University
College of Forest Resources
Raleigh, North Carolina

Felicia L. Woodall, Editor
Tom Gerow, Photographer

The **Pi-ne-tum** has been a 60 year tradition within the College of Forest Resources. It began in 1934 and is still going strong. This publication is rather unique in that it has always been student run. For 60 years CFR students have volunteered their time and experience so that other students, alumni, and faculty have a yearly memoir of the academic and extracurricular activities of the College. Last year's edition won an honorable mention from the Society of American Foresters for a forestry publication. The **Pi-ne-tum** is provided free to current students and for a nominal cost to alumni.

Copies of all past **Pi-ne-tum** editions can be found in the Natural Resources Library located in Jordan Hall, just next to Biltmore. It is quite a thrill to go back in time and see the Lodge at Slocum Camp when it was brand new, see Biltmore before Jordan Hall towered over it, see present professors when they were *students*.

Traditionally the **Pi-ne-tum** relied heavily on alumni donations and industry advertisements for its funds. Any alumni or industry interested in supporting this publication are encouraged to contact the **Pi-ne-tum** office. For the **Pi-ne-tum** to continue it will also need students willing to apply previous experience or get new experience are needed.

Table of Contents

- I. CFR Deans
- II. PRT Head
 - PRT Seniors
- III. WPS Head
 - PPT/WPS Seniors
 - Departmental Activities
- IV. FOR Head
 - NRE/FOM Seniors
 - Departmental Activities

The **Pi-ne-tum**

N.C.S.U.

Box 8001

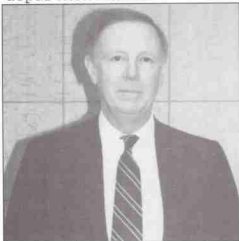
Raleigh, NC 27695-8001

Dr. Gary Blank, Advisor

WHAT'S A BODY WITHOUT A HEAD

Larry W. Tombaugh, Dean

This year, two of the most senior and respected department heads at North Carolina State University will leave their positions. Dr. Arthur Cooper, Head of the Department of Forestry, will return to his primary professional interests--teaching and research. Dr. Richard Thomas, Head of the Department of Wood and Paper Science, will retire. Since these pending changes will have a major impact on the directions and environment of the College for many years, I have chosen to dedicate all of my comments in this issue of the Pinetum to our three department heads.



Like many organisms, an academic body simply cannot function without a head. Someone needs to do all the many things necessary to bring a group of individuals together as one body to serve the needs of students, employers, and clients of the research and

extension programs. What are these things? What does an academic department head do?

It is my sincere belief that a successful department head in a major university can manage just about any enterprise. He or she has learned how to manage the many conflicts that characterize the job with few resources, few carrots, and no sticks. Perhaps next to being a big-sport coach, being a department head is the hardest job at the University.

The department head is a member of, and represents, the faculty. To be an integral part of the faculty requires that he or she fully understand scholarship in the many forms in which it is manifested. Most department heads are, or have been, active scholars and are respected by the faculty as a colleague. They understand the frustrations and challenges faculty members face every day in the classroom, in the laboratory, or in the field. They know that teaching, research, and extension are not abstract terms---they are the stuff of life for real people who work hard every day to do a good job. They also know that a motivated, professional staff is required to allow the faculty to excel in these functions.

They certainly know that the faculty is the essential factor in determining whether a department is mediocre or

great. Above all, the department head must understand faculty and things that either motivate or frustrate them. Faculty members are human with all the frailties that this implies. They enjoy personal and professional triumphs, and they suffer personal and professional setbacks. Through these times, the department head must be a confidant, a mentor, a counselor, and a friend. It is astonishing to learn of the number and variety of situations that develop for faculty in even small departments. The compassionate department head inevitably bears part of the emotional burden of each one of these situations.

The same is true with the students. It would be an unusual department head who did not share in the highs and the lows, the successes and the failures, of the students in the department. The more significant or serious the issue, the more the department head is likely to be involved.

The department head is a member of the faculty, but at the same time he or she is an administrator accountable for the resources of the department and for assuring that the policies and procedures of the College and the university are being followed. There never is enough money to go around, there never are enough people to do everything that everyone asks of the department. Thus, the department head must make

hard choices among programs and people. He or she is held accountable for the quality of the academic programs and for the stewardship of the resources of the department.

The department head is expected to have a cosmic vision of where the academic discipline of the department is going and at the same time to approve the expenditure of fifteen dollars for a pencil sharpener. The department head is expected to be a major force in national policy while struggling with departmental policy concerning smoking in faculty offices. The department head is expected to be on the road, raising funds from foundations, corporate executives, and government agencies, and be available at all times to solve problems of students, faculty, and staff.

Yes, it is a difficult yet critically important job. Art Cooper, Dick Thomas, and Phil Rea are all of the things listed above, and many more. Most of all, they are absolutely dedicated, competent men of integrity.

It is fairly easy to replace a department head. It is impossible to replace an Art Cooper, a Dick Thomas, or a Phil Rea. Thanks are due to them for all their enormous contributions to this College.

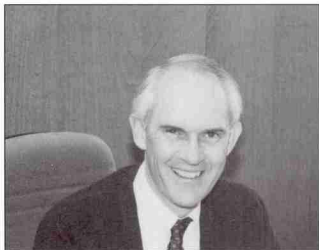
**THE COLLEGE OF FOREST
RESOURCES: A LEADER IN
UNDERGRADUATE EDUCATION
AT NCSU**

by: J. Douglas Wellman
Associate Dean for
Undergraduate Affairs

Since 1992, I have had the pleasure of serving on the steering committee for North Carolina State University's accreditation self-study. This has been a time-consuming assignment, to be sure, but it has also been highly enlightening. One of the most interesting aspects has been to learn just how forward-looking the College of Forest Resources actually is.

NCSU's self-study was quite an undertaking. Over 170 faculty, staff and students worked on a number of committees, and over 1,000 additional members of the NCSU community completed surveys that provided a quantitative basis for the study. The self-study document is over 300 pages long and contains 234 recommendations for ways to improve NCSU.

One of the dimensions of the self-study that generated the greatest attention is undergraduate education. There is a widespread perception that NCSU can make substantial improvements here. This perception is aligned with much of the thinking in the country today, as state legislatures and boards of governors all across the land demand greater attention to excellence in undergraduate education.



Since joining the College of Forest Resources in 1990, I have been impressed by the commitment to undergraduate students. In fact, my dim awareness of this commitment was one of the reasons I sought my job as associate dean for academic affairs in the first place. During my two years on the self-study committee, I came to appreciate even more the excellence of our formal teaching programs and supporting services.

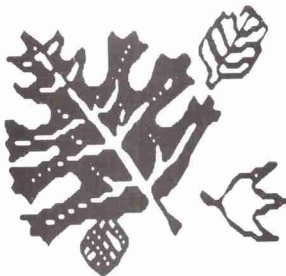
A few examples will serve to make the point. Let's begin with formal classroom and lab teaching. The Department of Forestry's path breaking writing program, now in its 15th year of operation under the leadership of Dr. Gary Blank, has been a model for other colleges of natural resources in the U.S. and is now serving as a model for others at NCSU. Industry ranks the Pulp and Paper Science and Technology program first in the U.S. and strongly supports it through undergraduate scholarships,

summer work opportunities, and jobs for graduates. Such industry support for our programs is based on their widely recognized quality. The quality of Wood Products students was shown by the international placement of three 1993 graduates in Brazil and Estonia. Students in the Department of Parks, Recreation and Tourism Management benefit from the department's strong commitment to experiential education. For example, each year 20 students spend one intensive week at Tennessee Valley Authority's Land Between the Lakes demonstration recreation management area, and last year's Recreation Programming class developed a library for a downtown Raleigh senior citizens center.

In addition to strong formal educational programs, the college supports excellence in undergraduate education in many other ways. All programs work hard to make undergraduate advising something that contributes to student success both in school and on the job. A strong group of student organizations and frequent opportunities for informal interactions between students and faculty provide a sense of community that supports academic success. A college tutoring program backstops the university program. The Computer Lab, guided by Liz House and the Computer Advisory Committee, has provided a state-of-the-art facility supporting computing applications in our professional courses. Extraordinary library support for our programs is provided by Carolyn Argentati

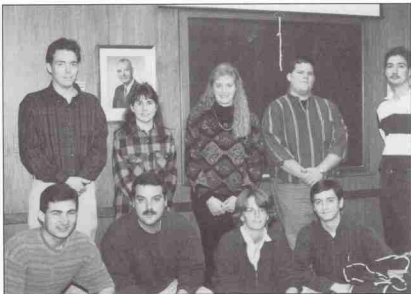
and the staff of the Natural Resources Library. Finally, students in the College of Forest Resources are given outstanding support--accurate, fast, friendly--by dedicated student services staff including Barbara Brown, Debbie Cox, Miriam Everett, Brookie Nixon, Reggi Powell, and Vickie Reed.

Like the rest of North Carolina State University, the College of Forest Resources can find ways to improve undergraduate education. But we are building on a long-standing tradition of excellence, and with the faculty and staff we have, we will continue to improve.



COLLEGE OF FOREST RESOURCES COUNCIL (CFR)

By Philip Todd



The College of Forest Resources Council is a representative body of all the clubs, organizations, and colleges within the College of Forest Resources. Those that are involved work together to discuss current issues and problem areas concerning the student body and their relationship with the faculty and department heads. The leadership and decision making experience is beneficial to all that are involved and will help each member's professional career in the future.

This year CFR Council had a busy agenda. One issue was whether or not to continue publication of this journal, the Pinetum. Obviously we voted in favor of continuing it. We also dealt with planning the fall and spring CFR

picnics. The fall picnic was coordinated with the Forestry Club during their annual Rolleo competition, held at the Hill Forest in November. Money was also appropriated to the different clubs and organizations from funds obtained by CFR Council.

The following people made up the 1993-1994 CFR Council:

Philip H. Todd	President
Henry Morphis	Vice-President
Richard Poindexter	Treasurer
Manda Morris	Secretary
Scott Harris	Forestry Club
Dwayne Wood	FPS
Virgil Matthews	SAF

Philip H. Todd	Xi Sigma Pi
Felicia Woodall	Pinetum
Kebyn Wightman	ISTF
Melanie Orwig	FRAGS/PRT
K. Farley,	TAPPI/PIMA
D. Kinsey	TAPPI/PIMA
Louis Adams	Recreation Club
Dr. J.D. Wellman	CFR Advisor

DISTINGUISHED PERFORMANCE AWARD

This year's recipient of the College of Forest Resources Distinguished Performance Award is Phyllis Garris. Ms. Garris is Library Technical Assistant in the Air Resources Library. Each year an administrative assistant is honored for outstanding performance in the College of Forest Resources. As administrator of the ARL, Ms. Garris provides informational support to environmental researchers throughout the country as well as the NCSU staff and students. Congratulations Ms. Garris!

AIR RESOURCES LIBRARY (ARL)

by Phylllis Garris

The Air Resource Library (ARL) is one of the country's largest independently developed libraries dealing with environmental effects on terrestrial and aquatic ecosystems. The ARL houses over 28,000 articles, books, and reports dealing with acid precipitation, pollution, global climate change, and environmental monitoring.

The staff of the ARL provides informational support to environmental researchers throughout the country as well as to NCSU staff and students. The ARL monthly newsletter, "Air Currents", circulates internationally.

The ARL is a part of the Air Resource Research Consortium, an organization made up of various cooperating units within NCSU and the U.S. Department of Agriculture.



COLLEGE OF FOREST RESOURCES HONORS PROGRAM

by Philip H. Todd

The honors program is new this year to the College of Forest Resources. During the 1992-1993 school year, the option was given to all students within the College to participate. The requirements of the program



Philip (R) and his brother Charles (L). Photo courtesy of Philip Todd.

were to have at least a 3.0 overall GPA and a 3.25 GPA in major. The student also had to have at least 40 credit hours at NCSU or transferred from another institution.

The course work that was part of the honors program had three stages, the first being three credit hours of an honors course or a 500 level course. The second

stage was senior honors independent study that included a written thesis, paper, or laboratory report that was guided by a CFR faculty member. The third and last stage was a senior honors seminar which included a presentation of the senior honors independent study.

I became interested in the honors program because I wanted to get some experience in the research area of forestry. I formed my research, with the help and aid of Mr. Larry Jervis, on the study of red oak regeneration with the use of Tubex tree shelters. Over a one year period I studied the effect of the shelters on oak seedlings at the Hill Forest. I have learned many things from this experience in the honors program. I have been able to see past many of my classes into the practical side of forestry and learn some things that I would not have had the opportunity to learn unless I had stayed at NCSU longer than four years. The program was very beneficial for me and my time here at NCSU.

DEPARTMENT OF PARKS, RECREATION AND TOURISM MANAGEMENT

by Dr. Phil Rea, Department Head

As the 1993-93 academic year comes to a close, it is comforting to look back at accomplishments that continue the rich tradition of the Department of Parks, Recreation and Tourism Management while new initiatives are being developed and implemented that will enable the department to respond to a constantly changing environment.

As in past years, the department is fortunate to have many excellent students and a caring faculty and staff that share a desire to excel. Many students have proven their abilities through academic performance and through the demonstration of knowledge gained through their studies in internships and positions of leadership in extracurricular activities. While our faculty and staff have always been proud of the strength of our programs of study and the individualized attention provided to students, considerable time and attention was focused during the past year on further refining the undergraduate curriculum and on improving advising and other student services.

One of the major events during 1993-94 was the review of the department's undergraduate program in light of the University's new general education requirements and the need to facilitate student progress in the completion of academic requirements. An advisory committee was created to review the existing curriculum and to make recommendations for improvement. The department will begin to implement the new curriculum beginning with students entering the curriculum in the 1994 fall semester.

A number of students received professional recognition during the past year. Heath

Carter received scholarships from the National Tour Foundation and the North Carolina Recreators Foundation. Rick Hardy and Loretta Marlow were selected the department's outstanding seniors and David Holder was selected to participate in the "Future Scholar" program sponsored by the Society of Park and Recreation Educators and the National Recreation and Park Association.



Our students continued their high level of service to others through a number of community activities. The recreation program class provided valuable assistance in conducting the North Carolina Senior Games Finals and enriched the lives of other, less fortunate senior adults by conducting holiday parties and developing a library at a Raleigh home for retirees.

The Recreation Majors Club continued to maintain an area of Western Boulevard as part of Raleigh's beautification program. In addition, it appears our students have created a new tradition in the form of a campus wide job fair and internship placement conference to match the seasonal employment of park and recreation agencies, recreation businesses and resorts with the

need for students to have summer jobs and internships. Twenty one employers and approximately 130 students participated in this new venture that promises to expand in the years to come.

Students also coordinated the annual spring banquet which featured Dr. Roger Warren as the guest speaker. He was introduced by Lynn Warren, a 1985 PRMTM graduate.

The Recreation Majors Club, under the direction of Ms. Leigh Baggs, provided numerous professional and social activities for students including the sponsorship of students to attend the annual conference of the North Carolina Recreation and Park Society, guest speakers, pizza and bowling parties, and weekend trips for white water rafting and camping.

Ms. Kathy Hamilton-Brown joined the PRMTM faculty as an instructor during the past year. Prior to joining NC State, Professor Hamilton-Brown was employed as a recreation consultant for the Virginia Department of Recreation and Conservation where she worked with at-risk youth. She also has considerable experience as a practitioner and as a faculty member at Virginia Commonwealth University. In addition, the department enjoyed the privilege of having four individuals with excellent credentials available to work with students and faculty. Annette Moore and John Connors taught courses at the baccalaureate level while Dr. Aram Attarian coordinated the intern program. Dr. Dochka Kazachka, a visiting professor from the University of Sofia, Bulgaria, taught a graduate seminar on international tourism development.

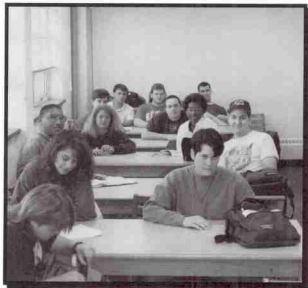
A major concern shared by students and faculty alike is the placement of graduates in professional positions. Examples of positions taken by PRMTM graduates during the past year include volunteer coordinator for the U.S. Forest Service, park rangers for federal, state and municipal park system, tour director for an Alaska adventure travel company, YMCA youth

director, hotel management trainee, recreation director at a state correctional center, nature center interpreter, university instructor, recreation consultant and program director at a coastal resort. Several others have entered graduate programs to continue their education.

As one year draws to a close it is time to look to the future where there are a number of exciting initiatives under consideration including the expansion of the job fair, the development of cooperative work/study programs, a Ph.D. degree program, additional concentrations and the development of a center to assist rural communities in developing tourism businesses. At the same time, the department expects budget reductions over the next five years that will not only restrict the development of new programs but will require the elimination of some current services. New resources must be identified to continue to provide quality educational programs and services for students and to develop new initiatives to stay abreast of changing conditions. We look forward to that challenge.



PARKS, RECREATION AND TOURISM MANAGEMENT SENIORS

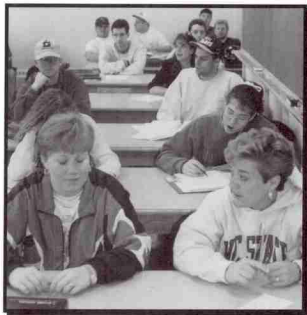


THIS YEAR'S GRADUATING SENIORS ARE:

Michael L. Adams
Robert S. Apperson
Michelle C. Bertocchi
Regina M. Butler

Heath V. Carter
Christopher K. Evans
David F. Griffin

Jason T. Heisler
Robert P. Hoffman
Andre C. Jenkins
Richard C. Jones
Roy W. McBride, Jr.
Manda M. Morris
William S. Morris
Paul L. O'Brien
Randall J. Saunders
Elizabeth Schaefer
Zoey E. Sloane
Thomas A. Tucker
Jodi M. Womble

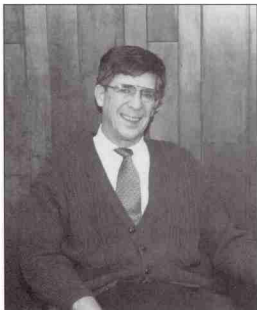


SO LONG

Dr. R.J. Thomas

Each year the department heads within the College of Forest Resources write a report on departmental activities for the Pinetum. As I will leave the University on July 1, 1994 after 37 years of service, the editor suggested that this year I write, not about the department, but about my tenure with the University.

When offered a faculty position, I leaped at the



opportunity because it would allow me to teach. Many courses and students later, I still build up a sense of excitement and enthusiasm for each lecture. It is always a magic moment, on those occasions, when I have the complete attention of all the students for the entire period. However, the real

rewards that result from teaching come much later, from chance encounters with individuals who walk up and say, "Dr. Thomas, you probably do not remember me. I took your course at State and you were the best teacher I ever had. You did a lot for me." What a moment.

I also had an obligation to establish a research program. One project involved mapping the size of boards and defect locations for transferring to IBM punch cards. That statement ought to date the work. Using an IBM 650 computer, the maximum obtainable yield for various size cuttings was determined. Thus, for the first time, industry had access to yield tables which indicated the available yield rather than what was being currently obtained.

One industry consultant has remarked on several occasions that this work saved more trees than the Sierra Club. Although I have my doubts about this, I like to think it is true. Shortly after the completion of this work, Sputnik was heard around the world and fundamental rather than applied research became the standard.

With College funding, I established an electron microscope laboratory and undertook work concerned with the ultra structure of wood cell walls. As opposed to teaching, where

rewards come late, peer recognition for research from presenting a paper, publishing in a refereed journal, or securing a research grant, provides instant satisfaction. Again, I was fortunate to receive recognition for my contributions.

Today we hear much about the conflict between teaching and research and the perceived lowering of teaching in the University's priorities. Teaching is important. Research is important. I believe strongly that good teachers must do research. Research teaches humility and keeps one constantly a learner. Struggling with new concepts makes us aware of the difficulties that students experience when exposed for the first time to new ideas that are to the teacher simple. A good teacher becomes a better teacher when involved in research. Properly done, the blending of teaching and research by faculty results in an improved learning environment that benefits the student and the teacher.

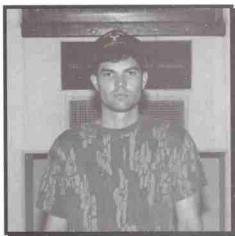
In 1978, I was appointed Head of the Department of Wood and Paper Science. A combination of learning on the job, patience from the faculty and Dean, as well as attending workshops offering management training allowed me to grow in the job and be successful. The stimulation and excitement generated by interactions with students, staff,

faculty, college and university administrators, people from industry and government, parents of students and other constituents, make the role of department head the best job in the University. Just as the rewards in teaching and research differ, so do they in administration. Here satisfaction is derived from watching the department move forward due to faculty and student successes, support from the University and constituents, and the help of many.

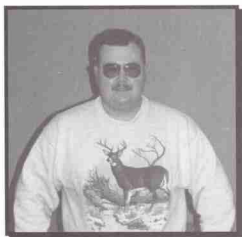
North Carolina State University gave me the opportunity to contribute to society as a teacher, researcher, and administrator. I have been rewarded in excess of my fondest hopes. For this I will be forever grateful.

In response to questions concerning what I intend to do in retirement, I like to quote Hubert Humphrey, who when asked about retirement said, "No I am not going to retire, in fact I might join something."

WOOD PRODUCTS SENIORS



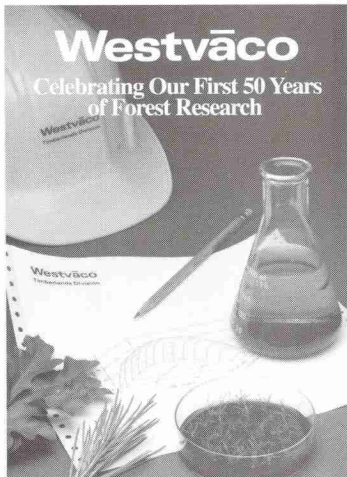
Webster Brandon Walker



Jimmy Williams
(December)

CONSERVATION SENIOR: Stephen M. Sandy

Photo not available.



Looking Ahead To Our Next 50

It began in 1944 with an experimental forest near Georgetown, SC. Today, it encompasses research facilities in South Carolina, Kentucky, West Virginia, and southern Brazil.

From early studies conducted almost entirely in the field, our forest research program has evolved to research conducted in laboratories, greenhouses, seed orchards, and company forests.

Westvaco's forest research organization is an industry leader, examining a wide range of important issues... from the impact of harvesting on forest soils to DNA mapping and molecular genetics of selected tree species. This new technology is used to increase the growth of company forests and those of private landowners participating in our Cooperative Forest Management (CFM) program.

Westvaco Forest Research is COMMITTED TO DISCOVERY. It was true in 1944. It's true in 1994. It will be true in 2044.

Westvaco Corporation

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180 Westvaco Road
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Summerville, SC 29484
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PULP AND PAPER TECHNOLOGY SENIORS



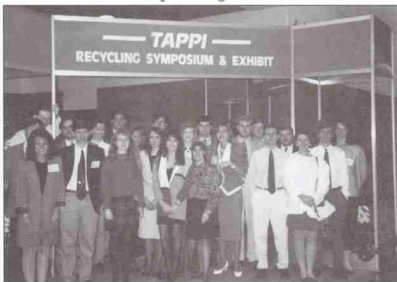
THIS YEAR'S GRADUATING SENIORS ARE:

Michael A. Alford	Kevin B. Farley
Mark E. Bochey	Jerry M. Floyd
Darnell Brewington	Melanie G. Galloway
Curtis L. Brown	Sidonia U. Harrison
Jacob A. "Jay" Brown	David C. Hasty, Jr.
Montoya E. Brown	Donald P. Kinsey
Jeffrey H. Buchanan	Lawrence G. Offill, III
Linda E. Bullard	Jennifer M. Parr
Karen G. Chipman	Edzel Sarogimba
Janice R. Cecil	John W. Vonnoh, Jr. (Dec)
Raymon M. Bass (Dec)	Stephen E. Bidwell (Dec)
Steven T. Daniels (Dec)	
Angela Hurst (Dec)	
Richard D. Jennings (Dec)	
Jennifer D. McCombs (Dec)	
Stacie L. McKenzie (Dec)	
John C. Small (Dec)	

TAPPI/PIMA STUDENT CHAPTER ACTIVITIES

by Angela Hurst

Throughout the last year the student chapters of TAPPI-Technical Association of the Pulp and Paper Industry- and PIMA-Paper Industry Management



Association- have been very active on and off campus.

During the last two open houses conducted by the university, TAPPI displayed a booth and supplied visitors with information pertaining to the College of Forest Resources and its world renowned pulp and paper department.

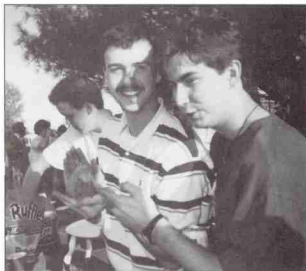
TAPPI also held various meetings throughout the year which allowed students to meet and interact with many companies from the paper industry.

Off campus, many of the student members of TAPPI traveled to New Orleans for a Recycling

Symposium arranged by the national TAPPI organization. During this convention, the students were able to attend different lectures and speeches pertaining to the recycling technology of today's paper industry.

The national TAPPI organization also hosted another convention in Atlanta, GA on February 28-March 2. Many students attended this convention, also.

The student chapter of PIMA held a management seminar on campus for its student members. The seminar included ideas on leadership, time management and personality relations. Members of PIMA also traveled to Atlanta during the holiday vacation to attend another management seminar organized by the Institute of Paper Science Technology.



TAPPI members making hamburgers at a picnic. Photo courtesy of Angela Hurst.

WOOD PRODUCTS SUMMER PRACTICUM

by Tom Daniel

Students in the Wood Products curriculum are required to complete a summer course that is uniquely different than most courses here at North Carolina State. It appears on the course requirements as the Summer Practicum and it is usually completed between students' sophomore and junior years. The Summer Practicum is an opportunity for students in the Wood Products



1993 Summer practicum students with their handiwork. Photo courtesy of Dr. Kelly.

curriculum to become familiar with the various manufacturing processes of the wood industry. The Practicum is a unique program in that it allows the students to get valuable hands-on experience with the machinery that is commonly encountered in the wood industry.

During the five week course, Hodges Wood Products Lab becomes home away from home for the people enrolled in the course. Students learn the basic steps of manufacturing furniture by practical application. Grading, drying, machining, gluing, and finishing of wood, as well as the assembly process, are subjects first taught in the classroom and then performed by each of the students in the laboratory. Hodges Laboratory is well endowed with equipment and facilities that allow students to become familiar

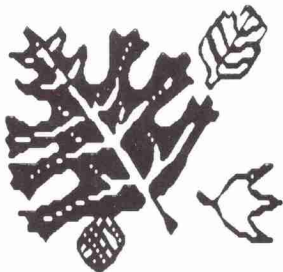
with the many different aspects of the wood industry. Students utilize the dry kiln, the various machinery (both state of the art and traditional), as well as the finishing room. A typical day consists of three hours of class, a lunch break, and three hours of work in the lab. In the laboratory, a piece of furniture and all of its components are machined, assembled, and finished using the methods that are most common to the furniture industry. There is one piece of furniture built by each student over the five weeks which will ultimately become the possession of that student upon completing the course. This might be each students' just reward for spending six hours a day, five days a week in Hodges Lab during the beginning of

the summer. Each student in the 1993 Practicum class built an oak bachelor's chest from raw lumber that anyone would be proud to have.

Another unique feature of the Summer Practicum is that one out of five weeks of the course is set aside for field trips. Visits to sawmills, furniture manufacturing plants, particle board plants, and plywood plants are all typical locations that practicum students are given a chance to tour. For many students, this is the first opportunity to see a real world application of what has been taught in the classroom. The 1993 practicum class spent three days traveling locally, visiting sites within a day's driving distance from Raleigh. Two days and one night were spent in the Lexington and High Point area touring furniture manufacturing sites which were producing both high and low end product lines. The visits gave the students first hand examples of practices, both good and bad, that are being used throughout the industry. It may be safe to say that in those five days of site visits, there was as much absorbed by the students as is learned in a semester in the classroom.

The Summer Practicum is an intense learning experience that involves the students with their field of study in a way many classes lack. It is an effective way of teaching, by example, the

many processes with which graduates of the wood products program are expected to be familiar. The Summer Practicum also serves as a chance for students in the same major to get to know each other by working together towards the same goal. It is quite possibly the only class in which an input of 30 hours a week in the classroom and laboratory can result in such a rewarding and enjoyable summer session.



FPS - FOREST PRODUCTS SOCIETY

by Richard Poindexter

The NCSU Chapter of FPS is open to all Wood Products majors. The purpose of our group is to bring students together to learn more about the broad and always expanding wood products industry.

At our meetings, which are held on the second and fourth Monday of each month, we try to have a guest speaker come in and talk about a certain part of the wood industry. This helps the members of FPS get a broader perspective on the different elements that make up the wood industry.

This year has been another busy and interesting year; we have had guest speakers from Atlantic Veneer, Franklin Glue and the department's very own Elisabeth Wheeler, who gave a presentation on fossilized hardwoods.

The Forest Products Society has many events planned for this year as well. In August of 1994, several of our members are planning to attend the International Woodworking Machinery and Furniture Supply Fair in Atlanta, Georgia. Many of our members attended the Carolinas Woodworking and Furniture Supply Show on February 25-26 in Greensboro, NC. During this school year we

designed a logo for the Wood Products curriculum, and we plan to have this logo printed on T-shirts, sweatshirts, hats, etc. We are currently working on several ideas for fund-raisers, including making clocks with the NCSU logo printed on them.

Jimmy Williams is serving as President for FPS this year, with Michael Tillman as Vice-President. Josh Edwards is the FPS Secretary, and Tom Daniel is the club treasurer. Dwayne Wood is the FPS representative to the CFR Council.

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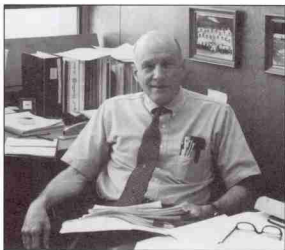
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FIFTEEN YEARS AS DEPARTMENT HEAD -- A RETROSPECTIVE

by Arthur W. Cooper, Head
Department of Forestry

It is sobering to look back over the 15 years I have served as head of the Department of Forestry. On the one hand, it seems as if the 15 years just started yesterday. On the other, it seems to be a very long time ago--when I was much younger and academic departments were much different than they are now.

One of my most vivid recollections is how I became head of the department. My predecessor, Dr. Bill Johnson, a man who was universally loved and respected, died suddenly over Thanksgiving vacation in 1979. As a result of his death, the then Dean Eric Ellwood appointed me as department head with some sage advice which, when boiled down, amounted

to "the job's yours, just don't make any mistakes." Good advice in principle but not so easy in practice!

The department was much smaller then than it is now. We had about 20 tenure-track faculty then--now we have nearly 40. Our budget then was about \$2.5 million--now it is in excess of \$6 million per year. We occupied parts of Biltmore Hall and were excessively cramped just as we are now. Jordan Hall was merely a dream which never seemed to get high enough priority to warrant funding.

And believe it or not, personal computers, of the kind we have now, did not even exist in 1979! I can vividly remember the first machine I ever had and how, in teaching myself to use it, I managed to erase my entire operating system from its disc within my first 5 minutes of self-instruction.

Enrollment in the undergraduate program was about what it is today, except that then it was headed down and now it is headed up. Emphasis in the undergraduate program was much narrower than it is today. Ecosystem management, linear programming, GIS, and public input were not as important as they are today. The graduate program had barely 60 students--now it has over 100 and is vastly more diversified than it was in 1979.

Then, as now, our research program was

Then, as now, our research program was diversified but was much more sharply focused on the industrial cooperatives. Programs in tree breeding, hardwood management, nutrition, and machinery development were the major points of focus and CAMCORE came into existence in 1980. Today, all but one of these programs flourish and continue to couple strong research with equally strong technology transfer. The programs in remote sensing and biotechnology, which are now important features of our research program, did not even exist in 1980. Likewise, the fisheries and wildlife program, in which we are now an active partner, was just being developed.

So, when I look back over my 15 years as department head, I see enormous changes both in what we do and how we do it. One is vividly reminded that change is the order of things and the person who understands and takes advantage of change will be tomorrow's winner.

But when I look back the most important thing I remember is the people. It was the students, undergraduate and graduate, my peers on the faculty, the deans and associate deans, and our support staff in the Department of Forestry with whom I have worked who have left the most lasting impression on me. The Department of Forestry and the College of Forest Resources have a sense of collegiality about

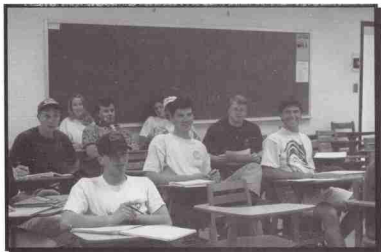
them that make them a genuinely pleasant place to work. Our program is typified by good people who want to do good things. Despite the fact that not all the things I have had to do in the last 15 years were fun, the people in the College and the atmosphere it creates makes even the tough tasks bearable. I wouldn't trade these last 15 years for anything.

A department head's job is to manage a department's programs so that they run smoothly and present students and faculty with the fewest barriers to doing what they are at the University for--to teach and to learn. A department head is also a steward of a department's resources, human and spiritual, and in the best tradition of stewardship the head must pass these assets on undiminished and untarnished. I hope I have done that.

I wish the department good luck and a long, productive future.



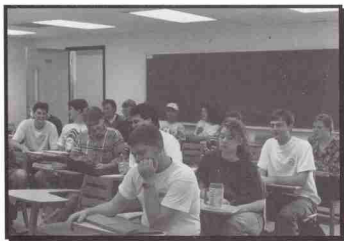
NATURAL RESOURCES - ECOSYSTEM ASSESSMENT SENIORS



THIS YEAR'S GRADUATING SENIORS ARE:

Geraldine S. Bickers
Daryl J. Brower
Gerard J. Nieters
Charles G. Wilkins

Melissa M. Peelish
Robert J. Milholland
Gene L. Sauls, Jr.
Kenny Sherin (December)



FOREST MANAGEMENT SENIORS

THIS YEAR'S GRADUATING SENIORS ARE:

Robert A. Bradley	Timothy J. Cartner
Amy E. Cobb	Richard Cockerman
Richard A. Crouse	Christopher Edgar
Tina L. Futrell	Scott S. Harris
Dale G. Holcombe	Michael C. Mann
Virgil K. Matthews	Robert P. McGuinn
Daniel Kermit Taylor	Philip H. Todd
John Todd Willis	Richard E. Shutt, Jr.
Elliott Erickson Harrell, III	Jimmy Dwight McKinney



FAREWELL, DR. ADAMS

by Tom Gerow

After nearly 30 years of service for the State of North Carolina and N.C. State University, Dr. Adams retired this year, somewhat to the surprise of fellow faculty and long-time friends. Though recently, most of us in the College of Forest Resources may associate Dr. Adams with Forestry and his teaching in FOR472, he was also very active in wildlife studies, having received both his Bachelor's and Master's degrees in Wildlife Management (and his Ph.d. in Plant Ecology). In addition, Dr. Adams was a member of the University's Department of Multidisciplinary Studies.

Dr. Adams spent most of his career in one position or another for the state, and did not begin teaching until later in life. A small sample of his past work includes such positions as a wildlife biologist, Director of the State Fisheries Commission, Chief Park Naturalist, and Assistant Director of Natural Resources. All of his past experiences and knowledge culminated in the publication of his natural resources policy textbook last year.

A farewell dinner was held February 18th, in which about 60 friends, family members and former students attended to wish Dr. Adams goodbye and best of luck in his retirement. The evening was filled with

good cheer and personal anecdotes that included tales of lost trains, missing deer, hair-raising airplane rides and remembrances of his early "Collection." Dr. Adams was also noted for his quest and maintenance of honesty and ethics in both the academic and professional arenas, a trait for which he is well-known by his students, and respected by his colleagues. Kudos to Judy Rogers, who was responsible for setting up and coordinating the retirement dinner.

Retirement will include more time spent with his family, more time for hunting and fishing, and additional time for a new interest, archaeology.

Congratulations to Dave Adams on his retirement, and best of wishes from all us in the College of Forest Resources.



Dr. Adams is pictured here with his wife.

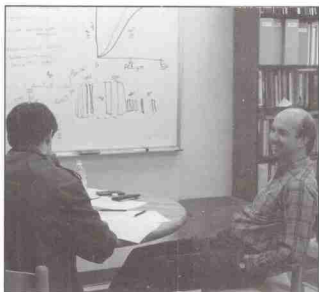
WHO IS DR. GRAPH?

by Tommy Sports

The outstanding professor of the year in the Forestry department of the College of Forest Resources was Dr. H. Lee Allen. Dr. Allen, who may be considered "Dr. Graph" by some of his students, definitely has a way of conveying his knowledge to the students. In only his second year as a full time professor, Dr. Allen has brought the combination of field and class work together to most effectively teach silviculture. As well as having the duties of being a full time professor, Dr. Allen also is the Director of the Forest Nutrition cooperative. The Forest Nutrition Cooperative provides continuing research in forest production by silviculturally manipulating the site resources of its study sites. This program focuses its attention on improving the production of southern pine stands as well as keeping in touch with today's environmental concerns.

Through continued research of such programs as the Forest Nutrition Cooperative and outstanding individuals as Dr. Allen, the field of forestry will continue to grow and prosper. The expertise that is exhibited by Dr. Allen will not only be appreciated by

the professional realm of forestry through the co-op, but also through continuing the education of forestry students at North Carolina State University. Congratulations Dr. Allen for an honor such as this and a job well done.



XI SIGMA PI

by Tina Futrell

Xi Sigma Pi, the national forestry honor society, accepts as its members students from all fields relating to natural resources who work to maintain a high standard of scholarship. The first chapter of Xi Sigma Pi was founded at the University of Washington on November 24, 1908. North Carolina State University established the Mu chapter in 1940.

During the 1993-1994 year, Xi Sigma Pi sponsored several activities. On December 2, the annual initiation dinner was held at the faculty club. Students and faculty members were present to welcome the new initiates as members and become acquainted over dinner. In January, Xi Sigma Pi had a booth in the Biltmore lobby to take student nominations for the Outstanding Teacher Award and to serve refreshments to those coming in from the cold weather. In April the Spring Picnic was held at the Schenck Forest for all members. It gave members one last chance to get together before the semester ended.

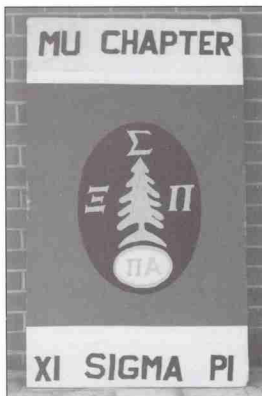
1993-1994 Xi Sigma Pi

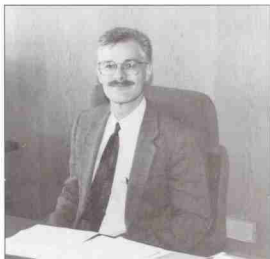
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Forester
Assistant
Forester

Tina Futrell
Jodi Womble

Ranger	Philip Todd
Secretary/Fiscal	Manda Morris
Agent	
Faculty Advisor	Dr. Richard Braham





Dr, Russ Lea, Associate
Dean of the College of
Forest Resources.

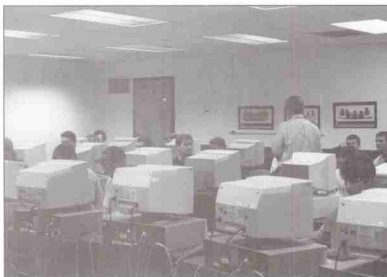


Tommy Sports gets
initiated into the
Forestry Club .
Photo courtesy of Scott
Harris.



Some CFR socializing
with the green
limousine in tow.
Photo courtesy of
Felicia Woodall.

Home sweet computer
lab...for many
upperclassmen.



INTERNATIONAL SOCIETY OF TROPICAL FORESTERS (ISTF)

by Kevyn Wightman

The Raleigh Chapter of the International Society of Tropical Foresters (ISTF), currently has over 40 student members who are interested in tropical and subtropical forests of the world. An international newsletter from the parent organization in Bethesda, MD serves members in over 50 countries worldwide to facilitate networking in these areas of interest. The organization acts in concert with the Office for International Programs of the College of Forest Resources (CFR). The objectives of ISTF are:

- 1) to advance the science, technology, education and practice of professional forestry in the tropics and to use the knowledge and skills of the profession to benefit society as a whole
- 2) to encourage and support the activities of the International Programs of the CFR and the Department of Forestry at NCSU; and
- 3) to encourage and support ISTF members in their personal and professional development while undertaking their degree programs at NCSU.

During monthly meetings at members' homes, slide presentations, videos or discussions are held in an informal setting with guest speakers, faculty and

students. This atmosphere facilitates an open exchange of ideas and concepts and helps students share experiences they've had living and working abroad. Many members are former Peace Corps volunteers. 1993-94 meetings' topics included: agroforestry in Rwanda, natural forest management with mahogany in Honduras and ecotourism in Papua New Guinea. This year's officers are:
Susan Moore, president
Kevin Harding, vice president
Kate Piatek, treasurer
Kevyn Wightman, CFR Council representative.

This organization is currently



Photo courtesy of Susan Moore.

planning its third annual two-week international field course to Costa Rica in May. The 1992 and 1993 trips to Ecuador and Costa Rica were tremendous successes. As in the past, graduate students, undergraduates and faculty members will participate on this trip. This is the capstone academic experience for future professionals in

the fields of tropical conservation, forestry and biology. The course serves to further the knowledge and applied science of protecting and managing tropical forests to benefit society as a whole.

These courses expose students and faculty to many aspects of tropical forests and a wide variety of projects including industrial plantations, community forestry initiatives, and biodiversity and conservation research. In addition, students are able to establish professional and academic contacts for future research and employment. Students without previous tropical or overseas experience gain valuable insights into the culture of Costa Rica, and its tropical forest management, development, and conservation issues.

This year's trip will be led and coordinated in Costa Rica by the Organization for Tropical Studies (OTS). OTS is a unique non-profit scientific and educational consortium financially supported by member institutes including NCSU. Established in 1963 as a cooperative partnership between temperate and tropical institutions, OTS offers college credit courses in tropical ecology, biology and others taught by internationally recognized professors. OTS also helps develop and affect international natural resource policy.

ISTF as well as the Center for World Environment and Sustainable Development, a cooperative program between

NCSU, Duke and Chapel Hill and the Sylvanet newsletter produced by the Office of International Programs at the CFR are valuable resources available at NCSU which serve students interested in forests outside of the United States.



FORESTRY CLUB

by Scott Harris
President, Fall 1993



CLUB HAPPENINGS

I started out the year as the club president with little more to do than make sure we made it to our competitions, plan Rolleo, and make sure that we had a tree-job chairman. If it sounds like a breeze, it was. Bill Dryman volunteered to be the tree-job chairman and was responsible for earning nearly all the money the club made this year. On practically every tree-job he could be found honing his skills as an ace tree-climber and woodsman. In addition to the physical contribution he made, he used his artistic abilities to draw the new club T-shirt. "Earth First: We'll Log the Other Planets Later", was the slogan. Bill's dedication and time earned him a nearly unanimous vote as President for the Spring Semester. From what he has shown so

far, he will surely be one of the best presidents this club has ever seen.

WOODSMEN'S TEAM

Festival in the Park

This year's activities have been a blast. We have had three competitions to date (excluding Rolleo) and have performed well at each. The first of these was Festival in the Park in Roanoke Rapids. As always this event was sponsored by Champion International and organized by NCSU alumnus, Ed Sontag. We met our old friends from VPI at the Gold House for a weekend of fun and good spirits. Joe "Booger" Ferdinandson (my nemesis) showed up to get things off to a good, but unhealthy, start. Dale Holcombe finally got his wish of getting a tattoo, albeit a temporary one. It seems that he found a box



Just a sampling of Dale's tattoos. Photo courtesy of Scott Harris.

of magic markers and a couple of cans of spray paint to decorate himself with. I'm glad I caught that one on film.

The next day's events started a little slow, but as the day warmed up, we earned a decisive victory over VPI. Gold House for dinner-ala-Chip. It seems that Chip has this other-worldly ability to take a mediocre piece of meat and turn it into a feast for six, by means of burning it to a cinder. I've seen him do this three times and each time it was wonderful. Could it be the hops, barley, and oats speaking? Hmm...

The West Point Crab Carnival

Our next big event was CrabFest in West Point, Virginia. This



Bill Dryman pole climbing, sort of. Photo courtesy of Scott Harris.

event was, in part, sponsored by Chesapeake and held in celebration of West

Point's most famous critter, the blue crab. We stayed at Chesapeake's scenic campground near some unknown river. The first evening was chilly and damp and provided perfect campfire weather. The teams from West Virginia and Penn State decided to take things seriously and ruin the fun for everyone by going to bed early. They didn't meet with much success because VPI brought along a stockpile of fireworks to help liven up the evening. Again, NCSU and VPI set the standard for everyone to follow.

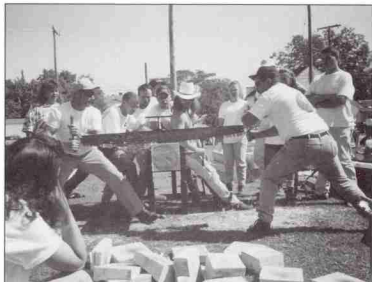
The next day brought a great competition and crab-like items. There were crab sandwiches, crab burgers, crab shirts, crab hats and a crab queen. The competition was crab fun and we placed crab third. Our performance on the saws wasn't stellar, but we certainly took the have-a-ball and sportsmanship awards. Jenny Willoughby demonstrated her prowess by causing her second crosscut partner to seek medical attention. Last year she sent Danielle Crockett to the hospital to get stitches; this year Felicia caught a wood chip in the eye. If Jenny keeps this up, she'll run out of partners to cut with.

Bill Dryman attended his first woodsmen's competition and showed what determination was all about when it came to the pole climbing event. The pole was hard, dry, and slick and nearly impossible to get a grip on. We picked

on Bill kind of hard by renaming the event the "pole squeeze". He did a great job and should be proud.

Union County Wildlife Expo

With barely a skeleton crew for a team, four members of the NCSU woodsmen's team went to South Carolina to compete against Georgia and Clemson in a mini-conclave. This competition consisted of five events in the following order: Ax throw, logrolling, crosscut, bowsaw, and speed chopping. With the exception of speed chopping, we won every event of the competition. Clemson and Georgia got the message loud and clear. Go home and practice boys.



Chip Gross and Scott Harris doing it right at Crabfest, West Point, VA. Photo courtesy of Bill Dryman.

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CONCLAVE '94

by D. C. "Chip" Gross

The 37th Association of Southern Forestry Clubs annual Conclave was hosted in March by Stephen F. Austin University in Carthage, Texas. Conclave is where 14 schools of forestry meet to compete in a range of technical and physical events. While the technical skills are used daily by foresters, the physical events are nostalgic, old-timey loggers' skills. Conclave



is made up of 8 technical and 13 physical events which take place over 2 days.

Conclave is not only brains and games; there is also the social aspect which occurs throughout the 2 days. This socializing is both the beauty and the bane of Conclave. A happy medium between attending only to party and attending

only to compete is necessary.

None of the events at Conclave are completely physical. Technical events require skill and understanding of forest measurement techniques and species identification. These events are scored with greater value than the physical events. Never has a team done well at Conclave without excelling in the technical events.

The physical events require practice and preparation as well. A person may be a natural at one of these events and "choke" when a crowd is watching.

Another factor which influences the competitors is the accommodations. The accommodations are cabin or tent camping, with hot water a rare bonus! Foresters take to these conditions

naturally; how well competitors take to them definitely affects their performance at events.

To get to the competitions at places like Carthage, Texas requires a commitment other than practice and study. It takes *funds* to make such a trip. NCSU Forestry Club gets vehicles as well as gas and oil money from the Forestry Department. The club raises the bulk of its

money for equipment, travel, regional dues and participation fees by doing tree work in and around Raleigh. This is accomplished by volunteer labor from Forestry Club members. Each member is required to contribute 16 hours to the club. When these hours are tree work, they are very labor intensive. This year the club also recieved money and material from several businesses:

- Mid-Atlantic Stihl
- Wilson's Outdoor Equipment
- Chesapeake Corp.
- Champion Intl.
- Person Hardwoods Mill
- Council Tools
- Union, SC Chamber of Commerce

It can easily be seen that it requires a lot of effort to go to Conclave.

Support comes to the team in a different form from the faculty of our College. The teachers and advisors have much to do with our success of failure at Conclave. Many thanks go the Dr. Jim Gregory for the time and effort he devotes to the Forestry Club and its activities. Dr. Rich Braham, Dr. Elisabeth Wheeler, Dr. Bill Smith and Heather Cheshire have also contributed their expertise to training the competitors.

Special mention needs to be made of Heather Cheshire's contribution. The Air Photo technical event was won the last 2 years and placed in the top 3 the

past several years by NC State due to Heather's help in preparing for this event. The club members really appreciate the value of the time these people contribute to our cause and the increased education we gain from their help.

This year's 10 person team is the smallest team NC State has sent to Conclave in a long time. These few good folks earned a 4th place finish, retaining the image which has been maintained for many years. The top placements were:

1st	Josh Baldwin	Air Photo
3rd	Dale Holcombe	Bowsaw
3rd	Rob Montague	Compass & Pacing
3rd	Chip Gross & Jen Willoughby	Jack&Jill Crosscut
3rd	Chip Gross & Scott Harris	Men's Crosscut

With relatively few top honors, consistent high placement in all other events enabled the excellent 4th place finish earned by this small team.



Jenny Willoughby and Chip Gross in action. Photo courtesy of Scott Harris.

When the tiny University of Florida School of Forestry shoulders the huge responsibility of hosting Conclave '95, NC State's young team will have an opportunity to shine. The Florida folks are calling it "Conclave in the Swamp." A larger team would be better for an increased depth and diversesity of experience.

For the people who feel that they can make the commitment necessary to support and participate of the Woodsman's Team, there will be a warm welcome waiting in the NCS Forestry Club. The Forestry Club would like to extend an invitation to all of the College of Forest Resources and Fisheries & Wildlife students to join and participate in this inter-collegiate competition. Team weaknesses are shown in Woodblock and Wildlife Identification events. We would appreciate the help of people who have chosen these specialties for their profession. PRT students have in the past found the Woodsman's Team to be an enlightening experience in good, clean, all-American fun which young and old enjoy. Consider it a resume thing, which I am sure that you would understand.

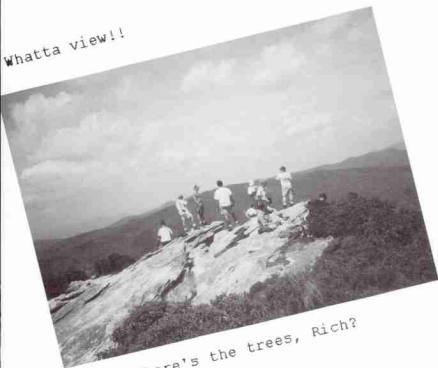
There are few feelings as good as taking that stroll to the front of the awards ceremony for a plaque, particularly a technical first place as Josh Baldwin, Scott Harris and I

have done. Shivers still run up my spine to remember Rodney Buchanan's record breaking bowsaw time, followed by Chris Stewart's record pushing speed chop last year and the adulation they received when going up for their awards.

Make the commitment to experience this if at all possible. The rewards will be there if the effort is made, and they are well worth it. Brags, lies, experiences, shirts and hats are swapped during Conclave. The most popular people at Conclave are those who bring along their instruments to play for sing-a-longs. Conclave is an experience which ought to be required for the university; it is not.

I hope that on a voluntary basis that you do not miss this event during your college career. It is simply awesome. At NC State, we attend the best Forest Resources curriculum in the Southeast. Let's go out and show the other southern schools where it is at next year.

Whatta view!!



Where's the trees, Rich?



Let's Ring it!!--Anna Byrd



Carolina or Eastern Hemlock??

Summer
Camp
1993



Don't FALL Huffman.



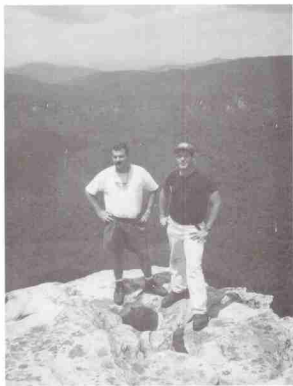
Will it live???



After NCSU forestry students.



Our last camp cookout--Real meat for once!



BE INVOLVED !

SAF (SOCIETY OF AMERICAN FORESTERS)

1993-1994 Officers:

Chair - Kermit Taylor
Vice-chair - Robert Bradley
Secretary/Treasurer - Mike Mann

by Kermit Taylor

The Society of American Foresters is the only national organization of professional foresters. It is the vehicle through which forest resource professionals address our concerns about the management, educational, and political issues concerning forest resources. Student involvement in this organization offers students an excellent opportunity to meet and get to know professional foresters in industry, education, and government agencies. NCSU Chapter meetings usually consist of a professional sharing a particular area of expertise and thus providing students with information beyond the classroom which is often beneficial and pertinent to school work and future careers.

This year, members of the SAF were very fortunate to be able to travel to both the national convention in Indianapolis, Indiana in

November and the Appalachian Division (APSAF) conference in Charlottesville, Virginia in January. In Indiana we got to see some of the best quality hardwood production in the country, including some large walnut trees worth over \$15,000 each! All in attendance had the



opportunity to voice their opinions about hot issues such as ecosystem management. Many new friends were made from other forestry schools across the country and we all had a great time and gained a lot of knowledge.

Highlighting the APSAF conference in Charlottesville, VA was the weather, which caused us to be without power on the last day and provided some wet snow skiing the night before. We learned much on this trip and were thankful for the opportunity to represent the NCSU Forestry Department which has earned a respectable reputation within the SAF and the

professional forestry
community.

Other activities of the semester included the continuation of the Adopt-a-Highway program and preparation for the SAF accreditation team visit in April.

All forestry majors are encouraged to be members of SAF and others are welcome to attend meetings and share their input. Please help to continue and further the success of the student chapter by being involved and taking advantage of the great opportunities which the SAF provides.



NATURAL RESOURCES LIBRARY

All students in the college of Forest Resources have come to know and love the NRL in Jordan Hall. We would like to take this opportunity to thank the library staff for their hard work and dedication to the students.

NRL STAFF:

Carolyn Argentati Director
Pamela Harris
Robert Scott



EXTENSION FORESTRY

Extension forestry at North Carolina State University is a link to many audiences in the state. Specialists conduct programs, develop educational materials and media, cooperate and coordinate programs with research faculty with different departments on campus and numerous agencies across the state and region through direct outreach, through extension agents in the 100 counties and through other professionals. Program areas include forestry, forest management, marketing, taxes, wildlife management, minor tree species establishment, urban and community forestry, Christmas



tree production and marketing, Forest Stewardship Program, Project Learning Tree, recreation, 4-H, youth programs and natural resource policy issues. Currently in Extension Forestry there are 7 faculty, 1 technician and 2 support staff.



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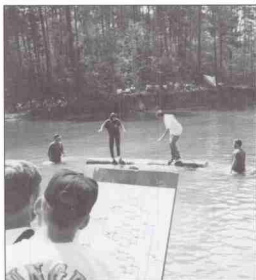
Front: Michael Hale, Greg Smith, Don Watson, Owen Demeny, Jeff Correll

Back: Tommy Sports, Brian Absher, Brad Gragg, Kevin Randell, Bryan Hamilton, Chris Jordan, Garrett Jones. Not pictured: Kevin Harvell



Oh the happy times in the College of Forest Resources!

Dale Holcombe log burling at Conclave in Carthage, TX.
Photo courtesy of Chip Gross.

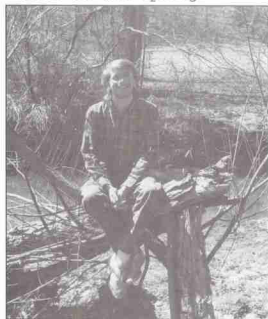


EDITOR'S ACKNOWLEDGEMENTS

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Tom Gerow, if it wasn't for you, I may have failed a class or two spring



Tom "Hydro" Gerow by a creek...

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"Trust in the Lord with all your heart, and lean not on your own understanding. In all your ways acknowledge Him, and He shall direct your paths." Proverbs 3: 5,6

Felicia L. Woodall,
93-94 Pi-ne-tum Editor

