



# ***1991-92 PINETUM***

JOURNAL OF THE  
COLLEGE OF FOREST RESOURCES

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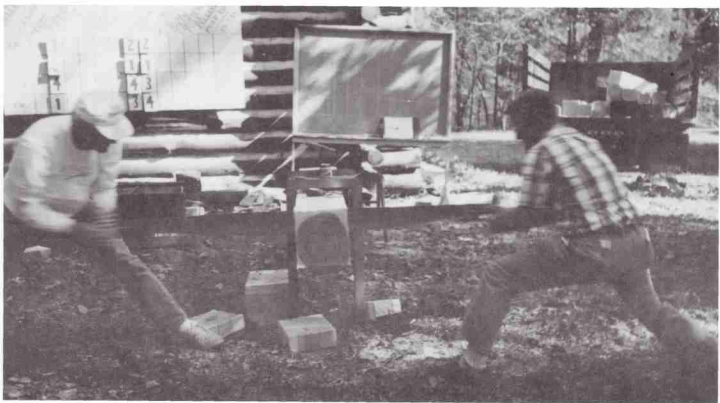
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# MESSAGES

FROM THE DEANS  
AND DEPARTMENT HEADS



## COLLEGE OF FOREST RESOURCES



Dr. Larry Tombaugh, Dean

Not in my memory has the general public been more interested in forests, natural resources, and the environment. Issues like wetlands, wilderness preservation, tropical forestry, biological diversity, dioxins, and many others are high on the public agenda. Our students, graduates, and alumni are postured to be right in the middle of some of the most important policy issues of our time.

The place of forests on the global agenda was made clear to me in September when I participated in the 10th World Forestry Congress in Paris. The discussions did not center as much on technical forestry issues as they did on the enormous political and economic stakes involved in forestry. In many countries, the tugging and pulling over forests is the key political issue of the time.

There seem to be two lessons emerging from our current state of affairs. First, our students and faculty must be fully knowledgeable about the environmental issues associated with their chosen professional career track. Whether dealing with production forestry, park management, or pulp and paper production, we need to constantly learn more about ways to achieve economic goals without compromising the long-term integrity of our environment. Sustainability has become more than a buzz word. It is rapidly becoming a societal goal that is directly affecting teaching, research, and extension programs in this College.

The other lesson is that natural resource issues really are international in scope. People in Baltimore are concerned about forests in the Amazon. Tourists from Iowa pay for recreational experiences in the jungles of Costa Rica. U. S. paper companies own production facilities all over the world. Warming of the earth's climate is a global concern.

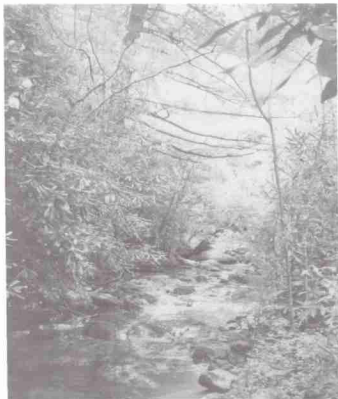
Fortunately, most of our faculty members enjoy an international reputation and are thoroughly familiar with

international matters. Their involvement with people and issues throughout the world enables them to bring an appropriate world-view to the classroom.

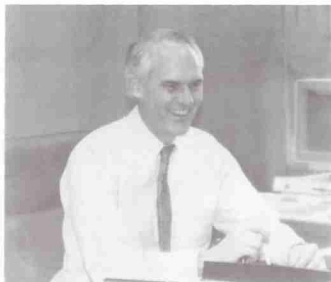
Over the past year, our faculty have worked in Sweden, Russia, Madagascar, Costa Rica, Mexico, Brazil, Indonesia and many others. Our goal is to infuse an appreciation of the international dimensions of commerce and the environment into the hearts and minds of all of our students. We have a ways to go, but we are about as well postured as any College of Forest Resources in the United States.

The attention being given to natural resources and the environment is having many positive effects on the College. Enrollment is increasing in all programs. Dr. Russ Lea, our new Associate Dean for Research, reports that the faculty has been extremely successful in competing for research grants this year—an important measure of the worth of their ideas and research. And our extension programs are moving into new areas, such as forest stewardship training and urban forestry.

The environment and internationalization—two issues that will shape our lives. But other issues of equal importance will likely arise throughout the professional careers of each of you who are currently students. My fervent hope is that the College of Forest Resources has provided you with the basis for scholarship that will enable you to anticipate other major shaping trends and develop the knowledge and skills to be able to deal with them. If we have provided the foundation for learning and a zest for new knowledge, we will have served the Class of 1992 well.



## ACADEMIC AFFAIRS



Dr. J. Douglas Wellman, Associate Dean

This goal of this office is to make sure that the educational programs of the College of Forest Resources truly serve our students and the professions and public they will serve. To serve the professions and the public, our challenge is to bring into the program and graduate a sufficient number of students to meet growing needs in industry, environmental protection, and leisure services. To serve the students in the College of Forest Resources, our challenge is to assure that they have the best possible educational experience, and that they leave here well prepared for work in their chosen profession, for further academic study, and for responsible roles in society. This past year brought significant progress in meeting both these challenges.

One of our primary objectives has been to expand the number of students in the college while maintaining or improving quality. On both counts, 1991-92 was a very good year. Overall College enrollments for Fall, 1991 were up 13.4 percent from 1990; undergraduate enrollments were up almost 10 percent, and graduate enrollments were up 27 percent. We now have 749 students enrolled in the College (576 undergraduates and 173 graduates), and we are making excellent progress toward our goal of 1,000 students. More important than the number of incoming students, however, is their academic preparation. College-wide, the combined SAT scores of our incoming freshmen rose 20 points over the previous year, and they are now almost exactly at the university average.

We continue to pursue an aggressive recruiting program. We follow up with all accepted students, make presentations in high school and middle school science and social studies classes, work with College alumni who have volunteered to support our recruiting, and prepare recruiting materials such as new brochures, video tapes, and newspaper profiles on practicing professionals. Two

recent initiatives are designed to bring our faculty into contact with some of the best college prospects in the state. First, through the efforts of Larry Jervis, we are exploring ways that students at the North Carolina School of Science and Math (NCSSM) can work at Hill Forest (located less than 15 miles from the school) on biology/ecology projects. Other connections between the College and NCSSM are being discussed, as well. Second, through the efforts of Kris Martin, we have started a lecture series at Broughton High School in Raleigh. This Spring, three members of the College faculty—Ann Stomp, Hugh Devine, and Russ Lea—delivered science lectures to 80 Advanced Placement Biology students at Broughton. We hope to forge an ongoing partnership with Broughton, and perhaps with other area schools as well. In all of our recruiting program, Paula Gray has been assisted this year by Kris Martin, Jerold Bryant, Gina Longo, Michi Vojta, Fred Carter, and other undergraduate and graduate students. Progress on much-needed minority recruiting was supported by continued funding from the USDA Forest Service.

Academic Year 1991-92 saw progress on many other fronts, as well. We relocated the computer lab and significantly upgraded the computer hardware to support our instructional programs. We continued work on the Natural Resources curriculum; the three participating NCSU colleges reached agreement on the core and seven initial concentrations and we submitted it to the university Courses and Curricula Committee in February. We started work on a new program in Environmental Sciences; this is modeled on the Natural Resources curriculum and should be ready for submission this spring. We established a collaborative working arrangement with the University Office of Cooperative Education. We developed a plan for a College honors program. We started the Alfred I. Dupont Distinguished Leadership Series of seminars. And we launched a college-wide program of educational outreach/continuing education.

In the midst of all these changes, the Office of Academic Affairs underwent staff and space changes this past year. After eight years of exemplary service to the College, Charlotte Swart resigned her post as Student Services Manager to take a position in the Computer Graphics Center. We were fortunate to lure Brookie Nixon away from the College of Veterinary Medicine to fill this critical position. The transition was as smooth as could be, given the complexity of the position, and we thank Ruth Allen for carrying the burden during the transition. We also had a change in office location, moving to the first floor of Biltmore Hall. These changes would have been far more disruptive than they were had it not been for the helpfulness of all—students, staff, and faculty—who work with us.

All the positive things I have reported here are the result of teamwork involving many different faculty, students, and staff. This spirit of teamwork is one of the real hallmarks of the College of Forest Resources.

## RESEARCH



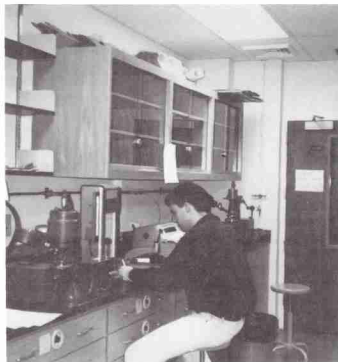
Dr. Russ Lea, Associate Dean

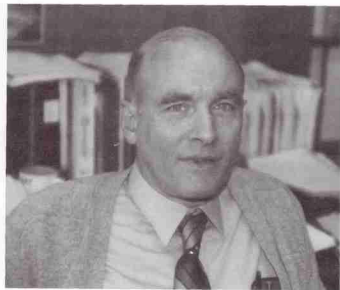
Like many institutions, North Carolina State University has become a product of an unprecedented era of expanding technologies, a growing national interest in higher education, and the Cold War. Our College, save for adding more environmental training in the early '70's, has changed little in its mission over the last couple of decades. We continue to offer curricula which provide knowledge and training to enable our students to make better decisions about the use of our natural and environmental resources. Unfortunately, the urgency of such decisions will continue to rise, and often, without the benefit of long-term research. You will be responding to the open and immediate expression of society's collective demands on natural resources by designing mechanisms that clarify public values in local planning and private markets. And this comes at a time, not only when our own corporations are stressed for answers, but when the importance of national borders have become irrelevant to decisions about how natural resources are to be managed.

The education and training of future scientists, engineers and resource managers is crucial to the development of knowledge and to our global future. This is accomplished by providing the tools and training to accomplish world-wide problem solving, research, and extension to safeguard the equitable and appropriate use of resources. When you cruise the halls of Biltmore, Jordan and Robertson, you can sense the change underfoot. New facilities, new faculty, new curricula and more students. For whatever reasons you came to NC State, you should leave here with a sense that your faculty have focused their

efforts on reinforcing our existing strengths and building the base needed for the long-term health and vitality of our College, nation and world. Miraculously, this has all been accomplished when higher education is being challenged to do more for less money and with increasing loss of public confidence in universities performing their missions.

We live in a changing world, and global environmental changes can have tremendous impacts on human welfare. In order to respond to climate change, ozone destruction, and to chemical poisoning of humans, animals and plants, our universities will have to be strong scientifically; otherwise, our efforts will be futile and costly. We cannot tolerate a decade or even a few years of financial neglect. The costs of scientific research have doubled during the last decade, caused by higher university charges for facilities and services, steady cuts in state appropriations, and the rise in the cost of scientific equipment. It will be important for our students, alumni and faculty to set priorities so that we preserve the strong academic and research infrastructure of this College. It will be important to alert the authorities of the importance of basic research and its contribution to the welfare and economy of this country. It is depressing to think that because of funding problems there might be research which goes undone and future generations of students who will be ill equipped to solve global problems. This has the potential to be a disaster for the country and for the international and scientific cooperation that will be required of all of us.





Dr. Art Cooper, Department Head

Although the nation's economic problems have created unsettled conditions outside of the University, conditions in the Department of Forestry have been more stable, and hence more productive, than in 1990-91. Although we are still fighting our way out of serious budgetary difficulties, these have not had the paralyzing effect that they have in some of our sister forestry programs nationwide. Nonetheless, the economics of higher education will, together with questions of educational philosophy, continue to dominate our thinking for the next few years.

A "summit" program on forestry education, the first in the last 20 years, was held in Denver in the fall. From this meeting emerged the general feeling that the kind of professionals the forestry profession will require are those who are broadly educated, who are critical thinkers, who understand ecosystems, who understand the social and political systems within which they work, and who, above all, can solve problems.

In a similar vein, the forestry profession, particularly at the corporate level, has begun to broaden its concern with environmental issues. There is a growing awareness that forestry can have environmental impacts that are unacceptable to some members of society and that foresters must, of necessity, consider a wide array of resource benefits and impacts when making their management decisions. Biological diversity, tropical deforestation, best management practices, endangered species, and multiple benefits are being discussed much more intensively than they ever were in the past. This discussion is perhaps best illustrated by the debate fostered by the Society of American Foresters over the inclusion of a land stewardship statement in the Society's canons.

These issues are not new to our forestry program

at NCSU. With roots deep in traditional "production" forestry, we have made serious efforts to broaden the education of our students, to provide greater training in technical skills and communications, to emphasize the environmental and multiple resource dimensions of forestry, and to stress analytical and decision-making skills. These directions seem to be "on target" for today's professional. Perhaps our greatest weakness lies in the limited education outside of forestry that our students get. Although the University's new general education requirements will speak to this issue, it will continue to be difficult for a university program in any profession to balance technical demands with the broadening experience of a true education. Nonetheless, we will continue to try.

The past year has been one of significant accomplishment. Enrollment in both the undergraduate and graduate programs is up and student interest in forestry and natural resources seems to be increasing. Graduate enrollment, particularly, has grown with many new students enrolling because of the department's superior programs in international forestry and forestry in the developing world. These trends are most encouraging.

In response to increased student interest in the field of natural resources and environmental management, the faculty completed work on a new Natural Resources curriculum and submitted it to the University for approval. This program will offer students a program with the same technical depth and rigor as the forestry program but with a broader focus on management of all renewable resources. Similarities between the requirements of the first two years of both programs will make transferring from one to the other relatively easy.

Student interest in professional affairs has remained high. The student SAF chapter has been active, holding technical programs once a month. Two undergraduate students and one graduate student attended the national meeting in San Francisco in August, and fifteen went to the Appalachian meeting in Asheville, NC, during February. Both trips were financed with funds from the Forestry Foundation. A strong contingent of students traveled to the annual conclave, and attendance at the annual Alumni Symposium in early November was excellent.

Dr. Robert C. Abt joined our faculty from the University of Florida in January of 1991. He fills an important position in quantitative economics and management science. Drs. James N. Woodman, Peter Somers, Dennis Mengel, and Mary Menetrez left the department in 1991, as did Ms. Jane Mudano and Mr. Tommy Tew.

The Department of Forestry enjoyed continued success during 1991-92 and looks forward to further opportunities as the mid-nineties approach.



## WOOD AND PAPER SCIENCE



Dr. Richard Thomas, Department Head

The 1991-92 academic year began a new era for the programs in the Department of Wood and Paper Science as two significant events, one in each program, occurred. The major event in the Pulp and Paper program was the completion of the 30,000 square feet addition to the Robertson Pulp and Paper Laboratory. In July 1986 the General Assembly authorized \$300,000 for planning a pulp and paper laboratory if the industry would contribute an additional \$75,000. The Pulp and Paper Foundation provided the money, and an architect was selected in December 1986. In August 1987 the General Assembly provided \$4.7 million contingent upon the industry raising \$1 million. Within six months, gifts and pledges from industry totaled \$1.4 million. Design work began in Fall 1987, and acceptable bids were obtained in December 1988. Construction began in February 1989, and we plan to accept the building in May 1992. The facility contains a 6,000 square feet pilot

plant, faculty offices, classroom, and numerous specialized research and teaching laboratories. During construction, it became obvious that the resources for obtaining equipment for the new facility were inadequate. An Equipment Committee was formed to seek donations of equipment. Their work resulted in the donation of equipment valued in excess of \$5 million. As a result of this partnership among the industry, university, and state, the program now has one of the best university associated pulp and paper laboratories in the world. The completed addition will, for many years, provide the students and faculty with excellent teaching and research facilities and thus significantly enhance the program.



The retirement of Professor Robert Gilmore on December 31, 1991, after 34 1/2 years was the other significant event to occur. His departure will have a major impact on the Wood Products program. He was the Superintendent of the Hodges Wood Products Laboratory and thus was extensively involved in both teaching and research activities. Graduates of the program recall Professor Gilmore's influence in the five week summer practicum in the Hodges Laboratory. Many years after graduating, alumni recall Bob's sincere interest in the education and welfare of students. His methodical and unswerving dedication to safety payed dividends--no injuries ever occurred to students enrolled in the summer practicum. His contributions to the research program are numerous; two specific projects, veneer checking and finger jointing, still bring requests from industry for help in these areas. He was also instrumental in the development of standardized tests that presently form the basis for the evaluation of high density laminates. In addition, Professor Gilmore provided laboratory support for all faculty requiring use of the Laboratory facility. Faculty and student requests were always greeted with a "yes" accompanied by a friendly smile. His retirement will truly have a significant impact on the Wood Products program for many years. He will be missed.



## PARKS, RECREATION AND TOURISM MANAGEMENT



Dr. Phillip S. Rea, Department Head

The 1991-92 academic year was a good year for the Department of Parks, Recreation and Tourism Management. Faculty and students received well deserved recognition, the most senior member of the faculty retired, a new faculty member joined the Department, and enrollment continued to increase.

Dr. Robert E. Sternloff retired from full-time teaching after 25 years on the faculty. When Dr. Sternloff joined the faculty at N. C. State in 1966, he was the only park and recreation director in the country with a Ph.D. While he loved his work as a Wisconsin Director of Parks and Recreation, a trip to Raleigh on a warm spring day convinced him it was time to accept the invitation to join the faculty of the fast growing recreation curriculum at N. C. State. Dr. Sternloff will continue to teach part-time and will continue as the director of the popular Park and Recreation Maintenance Management School conducted annually since 1972.



Dr. Roger Moore joined the faculty in the fall of 1991. Dr. Moore has degrees from Penn State University and Colorado State University. His primary research and

teaching interest is in natural resources recreation. Dr. Moore has two daughters, Sarah and Marina. His wife, Annette, has B.S. and masters degrees in recreation from Penn State and was a part-time instructor there while Dr. Moore completed his doctorate.

Kelly Cooke and David Holder received academic scholarships during the past year, Kelly from the North Carolina Recreators' Foundation and David from the North Carolina Tourism Education Foundation.

Faculty also received recognition as Dr. Beth Wilson was selected as the Outstanding Teacher for the College of Forest Resources and Dr. Roger Warren was selected as a University Distinguished Professor, one of the most prestigious forms of recognition a faculty member can receive. Dr. Carol Love was elected Chair of the Wake County Park and Recreation Board.

Enrollment at both the undergraduate and graduate levels grew during the year with undergraduate enrollment increasing from 127 to 147. The masters' degree program continued its growth to become the largest recreation graduate program in the United States during the 1991-92 academic year at 51 full-time students. With its 15 part-time students the graduate program is currently larger than any programs offering both masters and Ph.D. degrees.

Our students continued their involvement in two very meaningful programs, Senior Games and the Land



Between the Lakes Consortium. The Senior Games program is recognized as the top program of its kind in the U.S.A., an honor that is truly deserved. The excellent quality of the North Carolina Senior Games Finals is due, in part, because of the excellent volunteer support provided by PRTM students and faculty. The LBL Outdoor Recreation Consortium is in its 16th consecutive year. Other universities participating in this excellent week-long educational experience include Penn State, Western Illinois, Missouri and Indiana.

Mr. Boyd Lee, Park and Recreation Director in Greenville, North Carolina, and a member of the Board of Trustees for the National Recreation and Park Association, was the speaker for the annual Spring Banquet. His son, David, is a senior in Parks, Recreation and Tourism Management.

## BILTMORE RECYCLING

Mark Ambrose



From a rather modest beginning, recycling in Biltmore Hall has expanded to a major ongoing project. A few years ago, only a couple of aluminum recycling bins existed in Biltmore; no paper was being collected. A few graduate students set out to change all that. *Pinetum* talked with Mark Ambrose, one of the driving forces behind recycling in Biltmore.

*Pinetum:* How did you get so involved in the recycling program?

Mark: When I came to NCSU in 1990, there was almost no recycling in Biltmore. But I noticed Jordan Hall, had quite an extensive recycling program. I made some phone calls, talked with some people, and attended Student Environmental Action Coalition meetings to find out about campus recycling. As it turns out, due to budget limitations, Physical Plant relies on each building to organize its own recycling program. They empty bins when we call them, but all collection of recyclables in the building is up to student and faculty volunteers.

A group of students became involved by placing recycling bins placed wherever we could. Cheryl Giles, who used to work in Anne Stomp's lab, made some initial call to Physical Plant to request some collection bins. After consultation with Nancy Roberts, the building liaison, we put those bins on ground floor, which was to be a central staging area. I collected old wood pulp barrels and spray painted them to serve as collection bins. Med Byrd in WPS and myself were also constantly searching for boxes to put in offices for paper collection. Volunteers would empty them all into the big bins down on the ground floor.

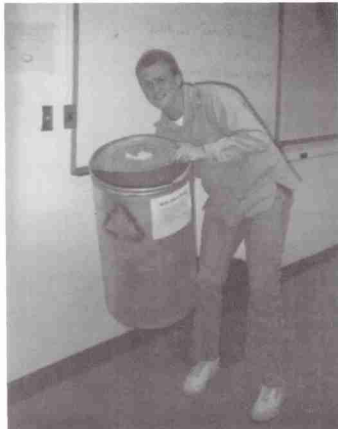
Sometimes volunteers would spend hours emptying bins and sorting materials that had been put in the wrong bin. That's why we've tried to get other people and organizations in the college involved. We've gotten several individuals and student organizations to each take responsibility for maintaining a set of bins: emptying them into the big bins downstairs, sorting out any trash that was dumped in them, and making sure they look neat and tidy.

*Pinetum:* What are some of the problems facing the recycling program?

Mark: One problem plaguing recycling on campus has been the budget crunch. Physical Plant doesn't have much money or manpower to devote to recycling. Therefore, they will only collect recyclables from a single point in each building. They've also stopped collecting some items that are very unprofitable.

Recycling is basically a victim of its own success. As more paper is recycled, the price of wastepaper has plummeted. The price of office blend mixed paper has fallen so low that the university has stopped collecting it altogether.

Ultimately the market will adjust. If the supply of paper remains high and consumers demand products





made from recycled paper, then more manufacturers will use recycled fiber.

In the meantime, the University won't stop us from recycling mixed paper. We found a paper dealer in town that will take it from us, so we'll keep on collecting, and when the bins are full, volunteers will truck them over. We are keeping the bins for colored paper on the third and fourth floors so they don't confuse the Physical Plant people collecting white paper.

*Pinetum:* How can individuals help with recycling?

Mark: The recycling effort in Biltmore is run by volunteers; it relies on everyone's cooperation. Sometimes well-meaning people make it very hard on the volunteers: When someone puts colored paper in a white paper bin, it means that a volunteer has to sort it out. The same goes for glass in the aluminum bins and trash in any of the bins.

Folks can help the recycling program succeed by following a few simple guidelines:

- 1) Remove all bindings (clips, staples, tape, etc.) from paper.
- 2) No glossy paper (magazines, catalogs) please.
- 3) No envelopes with plastic windows.
- 4) No carbon paper.
- 5) **When a bin is full, please help by bringing it down to the main collection area.**

We rely on the faculty and staff to sort their paper and dump it in the appropriate bins. Some have been really great about this, but others haven't gotten into it yet. Ideally we'd like each faculty member to have a box by his or her desk to collect white paper to be recycled. If anyone needs a box, they can see me, and I'll find one for them.

And we always can use more volunteers. With more volunteers we can have more recycling bins and even expand our collections to other items that the University isn't collecting, like glass or plastic bottles. Anyone interested in helping should contact me or Michi Vojta.

**EDITOR'S COMMENT:** Note the use of recycled paper and soy-based ink for this year's edition of the *Pinetum*.

## COLLEGE OF FOREST RESOURCES 1991 - 1992 COUNCIL

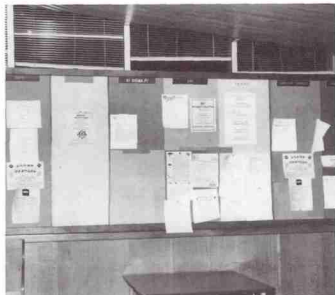
Milton Sheffield

The College of Forest Resources Council (CFR Council) represents students in all clubs, organizations, and departments in the college. Working through the council, all representatives have gained experience in working together to improve student life in the college. This experience in decision-making will be helpful in our future jobs.

This year the CFR Council had a busy agenda: planning the annual fall and spring picnics, talking about the +/- grading system and the CFR computer room issue, appropriating money to the various clubs and organizations, serving as primary organizer of the *Pinetum*, and taking over the college recycling effort.

The following people make up the 1991 - 1992 CFR Council (Name, Office or Organization):

- Randy Byrd, President
- Milton Sheffield, Vice-President
- Kelly Cooke, Treasurer
- Michi Vojta, Secretary
- Wendell Overby, Forestry Club
- Phillip Whitlow, FRAGS
- Lori Marlow, Rec Club
- Fred Carter, FPRS
- Kiersten List, SAF
- Paula Troxell, Xi Sigma Pi
- Rob Revels, TAPPI
- Meg McCarver, Rho Phi Lambda
- Henry Koch, ISTF
- Trey Payne, Wood/Paper Science Dept.
- Johann Mosley, Forestry/Conservation Dept.
- Rick Hardy, Parks/Recreation Dept
- Dean D. Wellman, faculty representative



## A FRESHMAN EXPERIENCE

Jennifer Willoughby



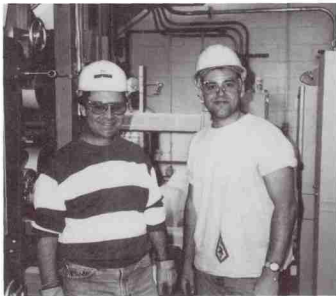
I started in the College of Forest Resources last fall and I thought I would write a small article of thanks to the people who have made my freshman experience so special. The students of Biltmore Hall are more friendly, honest, and enthusiastic than any other group of people I have ever known. They have helped me to realize how important it is to be happy with what I am doing.

I was lucky enough to get to know some of the upperclassmen and learn more about what is awaiting me in my college career. No other type of learning is comparable to hearing about experiences from people who have actually experienced them. Since I came to North Carolina State University, I have met many exceptional people, had some great times, and bombed more tests than I did in all four years of high-school! (Now that is BAD!)

This semester I decided to join the Forestry Club and I went to my first tree job. (Being from Indiana, I had never even seen a tree, much less help cut one down.) It was definitely an interesting event. I can not even imagine how Summer Camp will affect me!

I have been lucky enough to get to know some people that have been able to tell me a little about the classes I will be taking later. I guess the most important thing I have learned from the upperclassmen is to dread FOR 406. After an innocent trip into the computer lab on a Thursday morning, I seriously considered my previous decision to major in forestry! I thought we were going to be studying trees, not computers! Although that was a slight deterrent, I am excited about the opportunities that lay ahead.

I want to thank all of the people that have helped me to feel good about NCSU and specifically the career I have chosen to pursue. I can only hope that I will be able to help incoming freshmen enjoy college the way the upperclassmen have helped me.



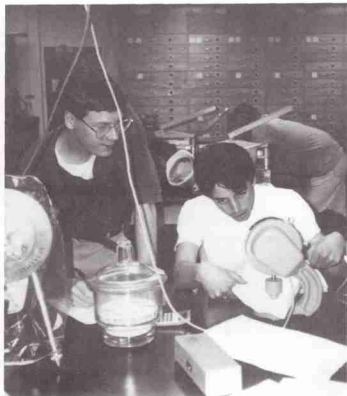
## CO-OPERATIVE EDUCATION LEIGH MARSTON

The forestry co-operative education program gives students at N.C. State an opportunity to work in the field of their choice while they are earning their degree. The forestry department ran their co-op program independently from the university's until the fall of 1991; now they have joined in with the university co-op program. Dean Wellman and Ruth Allen are the coordinators for the forestry co-op program. They arrange interviews with the participating industries.

Industries participating in the co-op program are Georgia Pacific, Champion, Bowater, Westvaco and Weyerhaeuser. State and government agencies are N. C. Forest Service, U. S. Forest Service, and Army Corps of Engineers. Prospective co-ops are required to interview with all agencies and industries.

Co-oping requires you to work two semesters and a summer. Most students alternate semesters between work and school, but some choose to work a year continuously. Co-oping provides you with a chance to make money and gain experience working in forestry. It does require an extra year in school but in the long run it is worth it. Co-oping can lead to a job with that industry or agency but not always. It does provide valuable contacts later on when you are applying for a job. After graduating you are not bound to work for the company you co-oped with, but if you are interested in working for that company you have helped your chances.

Upon returning to school after working, you have to write a short report on your work experience and complete an interview with the co-op office in Peele Hall. Co-op hours do not count toward graduation but they are a valuable contribution to your education at N. C. State.



# STUDENT GROUPS AND ACTIVITIES



## FORESTRY CLUB TREE JOBS

C.K. Greene

Tree jobs, the financial backbone of the NCSU Forestry Club. These money-making high-risk jobs are executed by club members in order to support club activities, such as costly trips to and from yearly forestry competitions throughout the Southeast. Saturdays usually pose as tree job days with work commencing around 8 A.M. Designated members climb the trees(s) while ground crews keep constant watch above for safety precautions of climber as well as delimited or cut up debris being sent down for disposal.

Before felling starts however, communication must be completed between the current Tree Job Chairman and customer. Details associated with price negotiation, tree



disposal, and possible hazards must be prearranged in order for the job to be completed efficiently and on time. John Willis, Chairman, and Josh Baldwin, Assistant Chairman, oversaw club duties during the fall of 1991. Officers change hands each semester; the spring of 1992 casts Josh Chairman and Richard "Rene" Taylor his assistant.

Though each semester, in addition to every new school year, brings about changes, Forestry Club tree jobs will continue to provide financial support for the club. This support allows chainsaw maintenance accompanied with frequent accessory purchases for needed equipment, as well as financial backing that insures a satisfying time at Village Inn Pizza, where club members love to dwell afterfinishing those high-climbing jobs.



## ROANOKE RAPIDS

Randy Byrd

This year's trip to Roanoke Rapids was another great time to be had by all. After whooping it up Friday night with ceremonial drink and merriment, the attending members of the Forestry Club jumped up to tackle the new day of Saturday. Roanoke Rapids, North Carolina, was not too far away to journey. The Shoney's breakfast bar was well stocked with various nourishing staples required for the day ahead. The caravan did exceptionally well in finding the event site this year, as opposed to the previous year's lengthy search. The site was well adorned with festive games, rides, sights, and sounds.

Both our own Forestry Club and Virginia Tech had representatives in attendance. Our function was to give a demonstration of traditional logger/sawyer operations to the people of the town of Roanoke Rapids. We showed our skills in crosscut sawing, bowsaw, log chopping, log rolling, and pole felling in lighthearted competition. Each of us had a wonderful time, both in the comradery with our fellow forestry students and with the people of Roanoke Rapids. The North Carolina State University Forestry Club would like to thank the people and the town of Roanoke Rapids, North Carolina, and the supporting members of Champion International Corporation for their involvement.



## CRABFEST

Joanne Stumpf

On October 4, 1991, ten NCSU foresters loaded up the green bus/limo and headed for Crabfest at West Point, Virginia. Rodney Buchanan was the chauffeur; the other participants were Cheryl Case, Joanne Stumpf, Chris Stewart, Steve Tucker, Randy Byrd, John Willis, Tom Huffman, Jessie Register, and Bruce White. The highlight of the five hour drive was when we reached West Point and hit the local PizzaHut. We entered in our usual club fashion and ordered more pizzas than we had people. After stuffing ourselves, we headed to the campsite where we met up with competitors from Virginia Tech and West Virginia. We socialized for some time and then found a place to sleep either on the ground under the stars or curled up on a seat in the bus.

Saturday morning we woke up early feeling less than rested, and headed to the town for a delicious egg breakfast. The competition was very successful and seemed to be the highlight of the Crab Carnival. The NCSU team did very well with several first place finishes. The final outcomes were: Cheryl and Joanne, 2nd women's cross-

cut; Jesse and Steve, 1st men's crosscut; Chris and Cheryl, 1st jack-n-jill crosscut; Cheryl and Joanne, 1st women's log roll; Cheryl, 3rd women's bowsaw; Rodney, 1st men's bowsaw; Joanne, 3rd women's axe throw; Tom and John, 2nd men's axe throw; John, 1st pole climb; Rodney, 2nd pole felling. Overall, the NCSU team placed a very close second, with West Virginia, as usual, taking first, and Virginia Tech with third.

After the competition, we participated in the carnival parade with the other two teams. The spectators were very supportive and we had a good time riding in the back of a truck waving and feeling important. We then settled down to eat a basket of crabs provided for us. Most of the remaining afternoon and evening were spent socializing at the house of a Virginia Tech competitor. We were given more food and got to know the other competitors. We left that night and arrived back at Biltmore very early Sunday morning. Overall, the trip was a great success, and everyone had a great time.



## ROLLEO 1991

Mike Shuman, Michi Vojta



On Saturday, October 26, 1991, the 55th annual Rolleo competition was held at the Hill Demonstration Forest for students, graduate students, alumni, and faculty from the College of Forest Resources. It involved intra-class competition in the down-n-dirty, nitty-gritty games that True-grit Foresters play.

Competition began on Friday for the technical events in Raleigh, after which many people came up to the Hill Friday night. Saturday began as a cool fall morning with all of nature's attractions of animals, birds, and the distinct coloring of hardwoods. For those already there at 8:00 AM to participate, it was time to begin warming up for the events. Rolleo began at 9:30 with the knife and axe throwing events. The last scheduled event before lunch was skeet shoot.

The temperature warmed up throughout the day, but the water did not. The very cold water of Slocum Pond bit at the steel nerves of those brave enough to dive in for the birling event. After much howling a winner emerged from the water, chilled.

Following this excitement came more strenuous competitions: pole climbing, pole felling, log rolling, cross-cut, speed chopping, and pulpwood toss. These events allowed competitors to develop their strengths, technical skills, and team-oriented characteristics.

Master chefs Andy Meadows and Vann Sparrow, alumni from the class of '90, returned, joining forces with apprentice Fred Hampton to create the three-pig supper



delight. In addition to the barbeque (and for the vegetarians) were hush puppies, baked beans, vegetables, and the camp staple, iced tea.

The seniors continued the tradition, proving victorious by a wide margin, while the sophomores impressed everyone with their strong showing, yielding second to the juniors in a close race. Rodney managed to beat expert alum Tim McCracken at the bow saw for the first time ever,



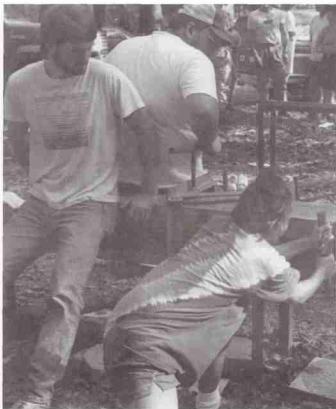
and Chris Stewart handily took his mentor and recent graduate Tom Margo at the speed chop. The alumni showed their continuing prowess in the skeet shoot (thanks to a couple morning headaches for the senior team) and crosscut events.

The Forestry Club thanks all who helped out, especially members Cheryl Case, Thomas Hoffer, Robbie Binns, and Amy Reese. Thanks too to VPI for coming down and the faculty members who helped out as timers and judges. Also to Mr. Jervis, Donna Fodrie, and David Lane for their time, effort, and cleaning assistance.





#### AWARD WINNERS



DBH Estimation	Rodney Buchanan
Dendrology	Chip Gross
Compass & Pacing	Rene Taylor
Archery	Jesse Register
Knife Throw	Ed Liverman
Women's Axe Throw	Joanne Stumpf
Men's Axe Throw	John Willis
Chain Throw	Rodney Buchanan,
	Jesse Register

Women's Bow Saw	Cindy Becraft
Men's Bow Saw	Rodney Buchanan
Skeet Shoot	Tom Huffman,
	Matt Lawrence,
	Rene Taylor

Women's Cross Cut	Michi Vojta,
	Cindy Becraft
Men's Cross Cut	Ed Liverman,
	Jesse Register

Jack-n-Jill	Cheryl Case,
	Stephen Tucker
Log Birling	Jesse Register



## WOOD FOR WARMTH

Rodney Buchanan

On November 16, 1991, the annual Wood for Warmth for Wake County was held at its new location at the Raleigh Water Works. Again, it was co-sponsored by the Forestry Club and Alpha Phi Omega, a service fraternity. As is customary, the Forestry Club contacted Wilson's Outdoor Supply which was able to supply saws from their Stihl and Sach's distributors.

The wood was hauled in from the old site and dumped in one huge pile of wood, wire, dirt, and gravel. Even though it looked to be a huge job, the club and other volunteers jumped in and proceeded to cut wood the entire day. After the participating organizations had split and stacked the days work, it was estimated that between twenty and thirty cords of wood were in the pile.

The Club would like to thank Wilson's and all the other organizations that helped make this year's Wood for Warmth a great success. Last, but not least, we would like to thank all the people that helped, because without them the success would not have been possible.



## SOFTBALL, SPRING 1991

Phillip Whitlow and David M. Lane

The Forestry Club softball team continued a tradition of excellence. The team featured three power hitters, David Lane, Henry Randolph, and Stephen Tucker. This core was surrounded by a number of consistent base hitters, led by Steve Daniels. Our offensive power was augmented by our defensive prowess on the field, making it virtually impossible for a team to beat us.

The defense was lead by our all-star pitcher Phillip (Wullup) Whitlow, who had the uncanny ability to protect himself on the mound. Chris Dunn at first base was the recipient of many put-outs. The Iron Curtain consisted of Paul Pruden at second, Henry Randolph (Mr. Scoop) at short, and Iron Mike Petrunico at the hot spot, third base. The outfield complimented the infield with their talented and spirited play. The anchor of the outfield was Jesse Register in left, who gunned down several base runners trying to advance to third or home. Our left center fielder, Stephen Tucker, was big and determined. Stephen was determined in his pursuit of fly balls, even when it was hit to the left of Jesse. Ed Liverman, Chris Stewart, and Steve Daniels platooned in right center. Rounding out the outfield was the old man David Lane in right field. He seldom had the opportunity to make an error. Rodney Buchanan filled the slot at catcher. He had no quit in him. Robbie Binns and Bill Smith were our reserves.

Speaking of Bill, a strong correlation developed over the season between Bill's participation and the outcome of the game. It has been statistically proven that there was a 95% probability of losing with Bill in the game.

The season started with Bill pitching. After two innings, many walks and runs, a substitution was made at pitcher. We struggled back, but we could not overcome the deficit of those first innings. We had suffered our first loss

in our first game of the season. However, through practice and fan support—Melissa Dewey, Donna Wilson, Cheryl Case, and Sharyn Lassiter—we demolished our next opponent. In this game our power hitters struck with a vengeance. After many round trippers, the other team proceeded to walk our big sticks. It did not matter at this point, the game was well in hand.

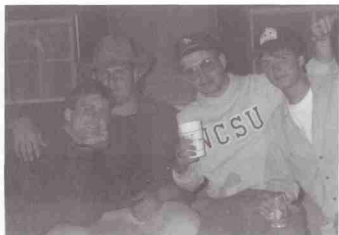
We continued to have a strong regular season, while qualifying for the 64 team playoff. The first playoff game was easily won as a result of a forfeit. In the second game, the final 32, we saw our team display an awesome barrage of power. Our defensive skills were at their peak in this game. This victory carried us into the Sweet 16. We continued our domination over the competition. We were surprised to learn the Pulp and Paper team had made it to the final 8. As fate would have it our paths would cross. The bragging rights of Biltmore Hall would be on the line. The following morning a victory party was held in Biltmore Hall to celebrate our 20 to 1 win.

### The Final Four!!

We entered the game with confidence realizing only the best were left. Floyd's Barber Shop proved to be a worthy opponent. We took the field and Floyd's Barber Shop were at bat. The first batter stepped to the plate and promptly smacked a line drive, which bounced out of our fielder's glove: an omen of things to come. Things degressed rather rapidly from here. We loss the game to the inevitable champions. Most of the starters will be back and will be looking forward to challenging for the championship next year.

## CONCLAVE

Phillip Whitlow



Conclave '91 summarized in three words is "Very Large Time!!!" For a nice change, Conclave '91 was only a three hour bus ride from Raleigh. But for the majority of souls, the ride home seemed like the traditional 18 to 24 hour ride which normally accompanies Conclave, after the celebrations on Saturday night: State students almost single-handedly provided the entertainment for the evening. We showed our ability to have a great time, thanks to extraordinary dancing by members such as Fred Hampton, Matt Lawrence, and Josh Baldwin. To say the least, Virginia Tech put on an awesome Conclave.

The 27-member Woodsmen team arrived at Appomattox County 4-H Camp late Thursday afternoon and quickly joined the festivities. We awoke Friday morning to the traditional cold, rainy Conclave weather. Nothing could be finer than to be at Conclave.

The competition started at 8AM with the technical events. Fred Schatzki and Steve Daniels, the veteran Conclave members that they were, provided strong leadership with 3rd place finish in Compass & Pacing and 2nd place finish in Photogrammetry respectively. These two competitions were our only top 3 finishes in technical events; the rest had disappointing results. Consequently, the team finished 9th in the technical division.

However, the Wolfpack had a strong showing in physical events. As a result, we finished 4th in physical events and combined to finish 5th overall. The physical events were led by David Lane and Steve Tucker: Steve and David smoked the competition in men's cross-cut,



slightly slower than the previous years' record set by David and Steve Hyde. They also combined for a 2nd place finish in log rolling. The underclassmen Chris Stewart, Rodney Buchanan, and Mike Rhodes provided stunning top three finishes. Chris, in his rookie year as speed chopper, finished a surprisingly strong 3rd and was only one second away from a 2nd place finish. Rodney added a 2nd place finish in bowsawing, while Mike was oblivious to the pressure of axe throwing and finished 2nd.

The rest of the team consistently finished in the top half of the competition:

Phillip Whitlow	Chain Throw	5th (1 m, 33 s)
David Lane		
Cheryl Case,	Jack-n-Jill	6th (22.3 sec.)
Phillip Whitlow		
Michi Vojta,	Women's Cross-cut	5th (22.4 sec.)
Melissa Dewey		
Randy Byrd	Birling	6th
Chip Gross	Archery	8th
John Willis	Pole Climbing	8th (6.89 sec.)



This team was mainly composed of underclassmen, which should be strong in the upcoming Conclave to be held in early April in Cajun country--Louisiana. The team in anxious to compete, renew old friendships with other competitors, and improve upon last years performance.

The Forestry Club would like to thank Larry Jarvis, Mr. Gilmore, Charlotte, Ruth, Rich Braham, Jim Gregory, Deans Tombaugh and Wellman, and Bill Smith for their hard work and support in preparing the team for competition.

**REFLECTIONS**  
**ON SUMMER CAMP '90**  
*dedicated to Buddy the dog*

It was the funniest thing in the world. Lemme tell you...

THE  
 THIRTIETH  
**BART SIMPSON**  
 Cuisine a l'Ellendale—  
 more chocolate pudding please



rustic but modern  
**BOILING**  
 WILD MAN!!

into Rougemont  
 nights trips

**FEMININE PLURAL**

Bruce: wah wah wah wah PHOTO MAP



(Dr. Rebecca Leonard)

Cruisin' in the green troglodid:

Hey hon-ney, wanna go for a buswilde??

Michi, professional skeet shot

**SMOKING PARROT**  
**SHINE-A-LOT**  
**BURNING SIDES**  
**WARRIOR REDBUG**  
**WALKING MOON**

Torso Man



log birlin' after work

Scruffy n' Cupcake

Nerd, Geek and Dork Redneck  
 Maurice's last bug collections

Joanne, you doin' anythin' special right now?

**FAT BELLIES**

**RADIO WARS**

Tublr'n the Flat

Wha, MELANIE!!!

KINSTON



Weekends at the beach...BEACH COPS!!

Bring on the snow!

"p 80000 - 1800 ga"

POOL COPS!!!

BRINE! You awake?  
Wake up, BRINE WINES!!!

Dr. Gregory vs. Ivan Evans,  
volleyball grudge match

FRYIN' TICKS ON THE BUS HOOD  
Cruisin' @ #19? fuel loads

Kinston Indians

WE LOVE BIG OL' FAT WOMEN!!!



Fivin' helicopters all night long

CROSSNORE

starry July nights

short-sheeted beds

38 oz 1's & furniture @ the 110 n  
fire extinguisher explosion



Summer camp...Aw, COOL. COOL COOL.

"Teller machine? At this time o' night?"  
"I think they have one over in the next county.  
You can't miss it; it's got all them lights."

## FORESTRY SUMMER CAMP 1991

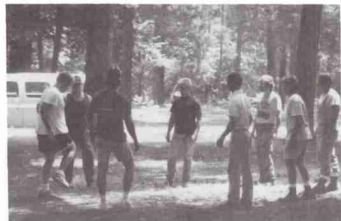
Derek Halberg

We visited the coast, the mountains and almost everywhere in between during the summer of 1991. Slocum Camp, nestled along the Flat River in northern Durham county, was home for much of that time. The weather never seemed to cooperate wherever we went either. If the sun did not shine and push temperatures into the 90's, rain would dampen our spirits for a while. No matter what the weather, though, we still braved the elements to see the sights.



Our summer camp experience was different in some respects than previous years. With the modern conveniences of an air-conditioned classroom and numerous computers, the TA's told us that we had little reason to gripe compared to previous years. Further, with the retirement of Dr. Farrier, we lost the experience of collecting insects. Somehow, though, our time seemed well occupied taking care of the other academic and social tasks of summer camp.

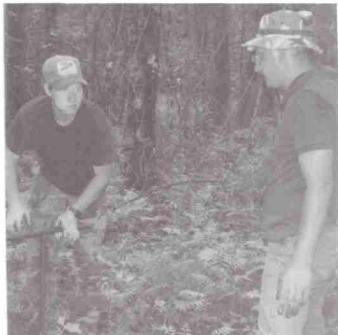
Besides all the education of modern technical forestry, we participated in nostalgic rituals such as "chain throwing." In an effort to efficiently manage time, many skilled summer campers utilized the fine art of ocular estimation. Every morning before silviculture lecture, we even had a party!



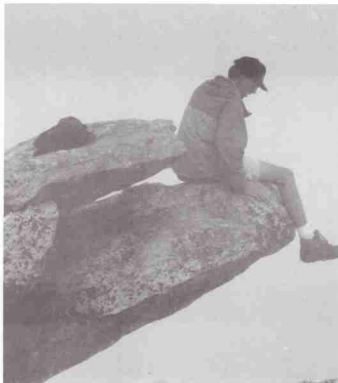
We did have some recreation time, though. When we weren't kicking the hacky sack around, we played volleyball, basketball, whiffleball, ping-pong, horseshoes, pool, frisbee, or cards. Some of us even volutarily took a swim in the pond. Others swam or fished in the calm waters of the Flat River. Due to the influence of one our classmates, few of us missed seeing the movie *Backdraft* while at camp



We learned how to meet deadlines. Projects, quizzes, homework assignments and tests became daily commonplace. For better or for worse, we were expected to have any number of assignments completed in a given time. Chaos ruled the night we tried to amass and interpret the data we had supposedly been collecting for several weeks for Dr. Gregory's hydrology report. Regardless of all the work, we were seeing the real thing or actually experiencing the work, neither of which could be accomplished back in a classroom in Raleigh.



At Fire Camp, we were accompanied by two Venezuelan foresters who told us about their country and asked us much about ours; one of them sure could play a mean game of ping-pong, too. We laughed as Mr. Jervis was tossed around the back of the NCFS car at the Hoffman as they tried to avoid the mud, only to have the car get stuck as a result. And, although we heard a lot about fire management, the uncooperative weather kept us from experiencing "the burn."



The summer was anything but banal. We saw a rattlesnake in Croatan National Forest, a bald eagle at Hope Valley, deer and bats on the Hill, and a bear in the Hoffman. When a summer camper's birthday was announced, we celebrated by escorting the lucky one to Slocum pond for a swim. The "back seat boys" serenaded Chapel Hill with other Slocumites. Two courting campers became inseparable as the summer progressed. With those hot days and evenings there in the Piedmont, the aluminum recycling barrel filled quickly with cans. Guitars and bongos often calmed our souls and relaxed our brains. We occasionally mixed with the wildlife students with whom we shared Slocum.

All in all, the summer gave us more than we had anticipated. Of course, we learned a lot about forestry. We learned about each other, too. The friendships and memories of the summer of 1991 will not fade soon.





## SOCIETY OF AMERICAN FORESTERS, STUDENT CHAPTER



Henry Randolph, Nick Balster, Paul Pruden

The Society of American Foresters (SAF) is a professional organization that provides students with the opportunity to interact with professionals in the field of forestry. SAF exposes students to a variety of stimulating speakers from various fields at its monthly meetings. It also presents students with the chance to attend the Appalachian Society Annual Meeting and the National SAF Convention. These meetings are loaded with professionals, their insights, and other students in the field of forestry.

The NCSU Student Chapter of the Society of American Foresters has enjoyed an active and eventful year. SAF became involved in local community activities by adopting a stretch of highway and keeping it clear of trash. The SAF also participated in University activities by placing a booth on the brickyard during Club Awareness Day to inform the NCSU student body of the Society of American Foresters' functions. In March, the students cosponsored, along with FRAGS and ISTF, the ceremonial planting of bald cypress trees in front of Jordan Hall. Another contribution from the SAF was in the form of donating a journal, *Forest Perspectives*, to the Natural Resources Library; the journal, is now available to students on behalf of the Student Chapter.

Members of the Chapter attend local and national SAF meetings throughout the year. In early August Paul Pruden, Henry Randolph, and Mark Ambrose attended the National Convention in San Francisco. In September, Nick Balster attended the Executive Meeting of the Appalachian Society in Asheville, North Carolina, where he addressed the Student Chapter's concerns.

The SAF also sent 15 students to the Appalachian Annual Meeting in Asheville. The meeting was located at the historic Grove Park Inn and the topic was "100 Years of Professional Forestry." Students were exposed to many interesting speakers and an excellent history of forestry, especially in western North Carolina, as well as a wonderful re-enactment of Gifford Pinchot's life by Gary Hines. The group was also fortunate enough to survive a midnight tour of Asheville provided by Paula Troxell.

SAF was fortunate to have a variety of highly-qualified speaker at the monthly meetings. These included: Dr. Joe Roise and Dr. Bill Smith, who discussed the development of a management plan for the Pisgah and Nantahala National Forests; Ted Shear, speaking on ecological restoration; Colin Peterson from International Paper, presenting the role of industry in the forestry profession; Dr. Richard Lancia, who discussed management of the endangered spotted owl in the Pacific Northwest; Dr. Jan Laarman, focusing on the emerging field of tropical forestry; and finally Mr. Stan Adams, from the North Carolina Division of Forest Resources, who spoke on forestry in the 1990s.

SAF is thankful to all its members who participated and made it such a success. A special thanks is also extended to our faculty advisor, Dr. Bill Smith, for all the input and support he provided.

### ADOPT-A-HIGHWAY

Clay Jackson

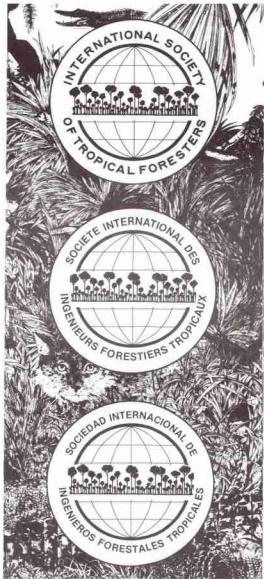
In February 1991, to act upon the Club's dedication to a healthier environment, SAF joined the North Carolina Adopt-A-Highway program. SAF has adopted Mid-pines Road, which connects Lake Wheeler and Tryon Roads; signs at both ends of the road alert drivers to the club's participation. On about a bi-monthly basis club members go out and pick up wayside trash, recycling what they can, along the 2.4 mile stretch. Attendance has been encouraging, with anywhere from eight to twelve people helping out at each clean-up.

Thanks to a strong effort from Michi Vojta, the Chapter received a Certificate of Appreciation from the Adopt-A-Highway Program for participating in their Fall Cleanup. The Chapter anticipates another Certificate for participation in the Spring Cleanup.



**THE INTERNATIONAL SOCIETY  
OF TROPICAL FORESTERS,  
RALEIGH CHAPTER**

Dennis Desmond



In 1989, the Raleigh Chapter of the International Society of Tropical Foresters (ISTF) was initiated. ISTF, based in Bethesda, Maryland, currently has over 2200 members worldwide. The objectives of the Raleigh Chapter include advancement of the science, technology, education, and practice of professional forestry in the tropics, as well as encouragement and active support of the International Forestry Program of the CFR and the Department of Forestry of NCSU.

This past year, the Chapter became a registered student organization. This academic year's officers include Dennis Desmond as Chairperson, Dan Turk as Vice-Chairperson, and Henry Koch as CFR Council Representative. In January, Linda Sturm replaced Leandra Clark as Secretary-Treasurer. Active members-at-large have included Mark Ambrose, Roger Arnold, and Rob Crook.

At the monthly Chapter meetings students, faculty, and other interested parties hear presentations or engage in discussions related to tropical forestry, as well as to socialize with colleagues. Speakers during the fall semester included Rob Crook leading a discussion on natural forest management in Costa Rica, Joe Peters sparking debate on the Ranomafana National Park project in Madagascar, Dr. Chuck Davey presenting a forest industry's attempts to replace dipterocarp forests of Borneo after destruction by massive wildfires, and Dr. Isabel Valencia spreading light on the newly-formed Center for World Environment and Sustainable Development (jointly managed by NCSU, Duke, and UNC-Chapel Hill). Spring semester speakers have included Dr. Jan Laarman describing current goals, programs, and projects within the CFR's International Forestry Program, and Pavlik Nikitine outlining constraints to forestry and natural resources development in the Peruvian Amazon. Scheduled speakers include Dr. William Dvorak profiling the activities of the Central America and Mexico Coniferous Resources Cooperative (CAMCORE), and Dr. Ram Oren from Duke University describing watershed management in Belize.

In addition to Chapter meetings, biweekly "task force" meetings are attended by motivated members who discuss and take action on ideas for strengthening the College's International Forestry Programs, which is currently under the able leadership of Dr. Jan Laarman. This year's activities include promotion of continued NCSU membership in the Organization for Tropical Studies (OTS), increasing membership and attendance at ISTF Chapter meetings by faculty, undergraduates, and members of other university departments, improving NCSU's course offerings in international forestry, and fundraising for travel grants to ISTF student members wishing to participate in the CFR's first annual international forestry field trip to Costa Rica. The May trip is being planned by Dr. Laarman and will be led by Rebecca Butterfield.



## XI SIGMA PI

Ivan Evans and Janet Millar



### HISTORY

Xi Sigma Pi, the forestry honor society, began on the campus of the University of Washington on November 24, 1908. The society went national in 1915; North Carolina State University established the Mu chapter in 1940. The society accepts into its membership outstanding students from all fields relating to natural resources, including (but not limited to) Pulp and Paper Science and Technology; Parks, Recreation, and Tourism Management; Conservation; and Fisheries and Wildlife as well as Forestry. The constitutional objectives of Xi Sigma Pi are to:

1. Secure and maintain a high standard of scholarship in forestry education;
2. Work for the improvement of forestry; and
3. Promote fraternal relations among those engaged in forestry and forest-related activities.

### 1991-92 OFFICERS:



Forester — Ivan ("The Terribly Confused") Evans  
Assistant Forester — Cheryl ("My Socks Don't Match")  
Case  
Ranger — Henry ("Big H") Randolph  
Secretary/Fiscal Agent — Janet ("What Bank Account?")  
Millar  
CFR Council Representative — Paula ("Curve-Buster")  
Troxell  
Faculty Advisor --- Rich Braham

### ACTIVITIES IN THE 1991-92 ACADEMIC YEAR

The Awards and Prospective Initiates Dinner was held in October. The dinner gave the initiates an opportunity to meet current members (undergraduate, graduate, and faculty) and to learn about the society. At this time, the Ralph C. Bryant Summer Camp Scholarship was awarded to Derek Halberg and John Rehner, and Paula Troxell was awarded a scholarship from TAPPI (Technical Association of Pulp and Paper Industry).

Initiates and members participated in a fund-raising bake sale at the end of October. The Society raised over \$85, which they used to re-frame the original charter and help purchase Xi Sigma Pi stationary. The Society later donated \$20 to the N.C.S.U. Health Center Facility, during the Wellness Expo fund raiser, for the improvement of the existing facilities and subsequent care provided.

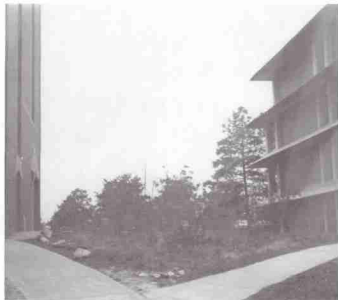
Initiation of new members occurred in November; the initiates participated in a secret ceremony and had the pleasure of hearing retired Dean Eric Ellwood as the guest speaker. The new members are: Cobb Golson, Denise Hamm, Rick Hardy, David Holder, Ed Liverman, Rania Masri, Wendell Overby, Jennifer Parr, Narayan Rajbhandari, David Sturgill, Rob Titchner, Jennifer Viets, and Brian Zehner.

March 19, 1992 a tree planting ceremony was held in celebration of Arbor Day and sponsored by FRAGS. Bald cypress trees were planted by FRAGS with help from the society and other groups to enhance the front of Jordan Hall. In early April the Spring Picnic will be held at Schenck Forest. Toward the end of the picnic, the election of the officers and representative for the academic year 1992-93 will be held.



## DYNAMIC SUCCESSIONAL LANDSCAPE

Mark Ambrose



It may look like a weed patch, but it's supposed to look that way. It's the Dynamic Successional Landscape!! Designed and planted by a group of graduate students, the landscape occupies the space between Biltmore and Jordan Halls.

"It's supposed to be a demonstration of what plants can do to reclaim an urban site that has been ruined by urban activities and development," says Ben Bergmann, a Forestry graduate student.

And the site was indeed ruined. The construction of Jordan Hall had left an area of compacted clay and construction debris. After that, equipment and a garbage dumpster were located on the site during the installation of a new roof on Biltmore. During the planting, students hauled out at least three bushels of brick, metal scraps, tarpaper, and other debris.

The area was to have been landscaped after the construction of Jordan, but funds ran out before anything could be done. Members of FRAGS decided to do something about it. Alan Reid designed the plan and a committee of graduate students got it approved by Landscape Services.

Most of the plants were donated. Two year-old pines were donated from J.B. Jett's program. One year-old pines and red cedars were contributed by the N.C. Forest Service. Landscape Services gave an assortment of left-over trees that had been sitting in their nursery. Leslie Henry donated wildflower seed, while Anne Stomp allowed some graduate students to dig up clumps of broomsedge from her property. Other faculty members donated various tree seedlings.

The graduate students came through in a big way. People donated everything from hoses, to fertilizer, to tree seedlings from their yards. Physical plant disked the area and provided several truck loads of mulch, but all the work was done by students.

Young trees of various sorts and wild flowers were planted, but part of the fun is seeing what comes in by itself. Now that a tree framework has been established, FRAGS intends to just let it go. Part of the idea of the project is to see how succession works. In just the first season, young sycamores, oaks, and black locust have established themselves, along with a whole variety of herbaceous plants. Except for keeping the borders of the site neat and maintaining a path, no other work will be done on the site.



However, that doesn't mean that there is no more work for the FRAGS landscapers. The initial planting finished, students wanted to be able to prepare interpretive materials for the site and put up signs and benches. However, they had no money. That changed in August when the project received a \$1700 grant from America the Beautiful. Ben Bergmann wrote up the proposal with help from Liz Crane and Mark Ambrose. The money is being used for signs, benches, a brochure, and some additional planting adjacent to their original site.

The group wants to maintain their native species theme and continue to plant around Biltmore and Jordan. Last fall they planted a bed of wildflowers adjacent to the successional site. This spring, to celebrate Arbor Day and World Forestry Day, five bald cypress were planted in front of Jordan Plaza. Graduate students would like to see a tradition of tree planting continued to beautify the campus and to provide a variety of plants for educational purposes.



R. Winstead, N&O Publishing Co.

## FPRS

Fred Carter

The school year of 91-92 has been a good one for F.P.R.S. Last fall, the annual deer -pickin' was once again held at the residence of Scott King. The food was excellent and Dan Daniels once again led the way with his lies about "Jones county deer." The club also made significant monetary progress this year. Using a digitized design by Clyde Arnette, F.P.R.S. made plaques which were sold for the annual fundraiser. The money was used to help finance a trip to Key West over spring break. Participating in the trip were Fred Carter, Robert Lewis, Whit Westbrook, Milton Sheffield, Rod Chambers, Scott King, and Dan Daniels.

The club is also looking forward to the national wood science and technology competition. West Virginia University is host for this years Log Jam, and N.C. State expects to make a strong showing among the participating schools. Last but certainly not least, graduation is around the corner. This year we will say goodbye to Whit Westbrook, Scott King, and Dan Daniels. However, replacing them is an up and coming bunch of juniors and sophomores who will be sure to make Dr. Kelly sleep less at night. Outgoing officers for the year are Robert Lewis, President; Russ Carawan, Vice President; and Trey Payne, Treasurer.



## TAPPI

### RIDE THE WAVE OF TECHNOLOGY

Nikki Blankenbecker, Yen-Ling Lai

Students from the NC State chapter of the Technical Association of the Pulp and Paper Industry (TAPPI) attended the 1992 International TAPPI Conference over Spring Break. The bi-annual Conference was held in the Georgia World Congress Center in downtown Atlanta. Aside from about 2500 people representing various aspects of the industry, the conference hosted twelve schools from throughout the US (approximately 250 students).

The Institute of Paper Science Technology (IPST), based in Atlanta, hosted the students. IPST is oriented toward graduate studies of Pulp and Paper Technology. Students were taken on a tour of IPST's pilot plant which contains state-of-the-art technology.

The conference consisted of exhibits, technical presentations, and personal interactions. The numerous exhibits ranged from chemical and equipment suppliers to process control system suppliers. Among the many tech-

nical presentations, a professor from N.C. State, Dr. Hasan Jameel, presented a paper on future trends in the bleaching and pulping side of the industry. Attending the conference gave the students an opportunity to interact with prominent people in the industry. Furthermore, students were exposed to the business side of the industry, as well as the technical side, through the exchange of cutting edge technology. For example, Measorex introduced their latest on-line control system, MXOPEN, an example of the most user-friendly computer system in the industry.

TAPPI is a student organization at NCSU, open to all students, especially those interested in the Pulp & Paper Industry. TAPPI meets every other Wednesday at 7:30 pm in Biltmore Hall. Through presentations, students are exposed to many different sides of the industry. Students get a chance to learn about different companies, in and related to, the Pulp and Paper Industry. Anyone interested should contact Jennifer Parr, President Elect.



## PRTM GRADUATE PROGRAM

Dr. Beth Wilson, Graduate Advisor

The Master's program in Parks, Recreation and Tourism Management at North Carolina State University is the largest program of its kind in the United States. Students choose one of three degree options: Master of Science, Master of Parks Recreation and Tourism Management, and Co-Major with a Master of Public Administration. There are currently fifty-one full-time graduate students and fifteen part-time graduate students in the Parks, Recreation and Tourism Management Department. In addition, four of our Graduate Students are pursuing a Ph.D in Forestry under the supervision of a Parks, Recreation and Tourism Management faculty member.

The graduate program offers concentrations in Tourism Development and Management, Recreational Sports Management, and Geographic Informational Systems. Thirty-one graduate students are on assistantships, fellowships, and paid internships funded primarily by research grants and other outside funding sources. Our graduate students are making a significant contribution to the profession through applied research projects and theses. In addition to having the largest program in the country, we are confident that we have one of the top programs in the country in terms of quality graduate students.



## RECREATION RESOURCES SERVICE

Julie Beaver and Kelly Cooke



Recreation Resources Service (RRS) is located on the fourth floor of Biltmore with the Parks Recreation and Tourism Department. RRS was established for the purpose of providing services for students and professionals in the Parks and Recreation field.

Candace Goode, the Director of RRS, along with the RRS consultants-Butch Kisiah (Western Region), Kathy White (West-Central), Leigh Baggs (Piedmont), Scott Payne (North East), and Jack Frauson (South East) are available for consultation when professionals are in the planning process of a site or facility. Services that are provided for students include those of resume assistance, research projects, and information concerning job applications and interviews. RRS oversees the distribution and use of funds from the Land and Water Conservation Fund.





## RECREATION CLUB

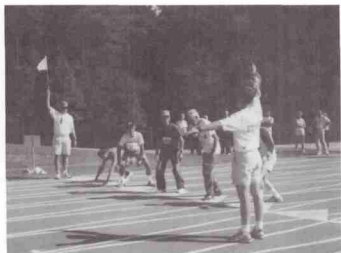
Rick Hardy

The Recreation Majors Club at NCSU always seems to have a full year of activities planned. Dedicated to bringing people together through service to the community and shared recreational experience, the club has been actively recruiting new members all year long and is open to anyone that wishes to join.

The fall of 1991 was filled with meetings and trips. The year was opened with the annual picnic at Pullen Park. October was filled with recreational trips and service projects. We rafted the Nantahala River and spent time cleaning our stretch of Adopt-a-Highway on Reedy Creek Road. Faculty members were hosted at meetings in November and December in a "Get to Know Your Type" forum.

1992 was celebrated with a Superbowl Party at a club member's apartment. February and March were filled with meetings, ski and white water rafting trips.

The current 1991-1992 officers are: President, Rick Hardy; Vice-President, Lori Marlow; and Treasurer/Secretary, Julie Beaver. The newly elected officers for the year of 1992-1993 are: President, Lori Marlow; Vice-President, Adrian O'Neal; and Treasurer/Secretary, Robert Aperson.



## RHO PHI LAMBDA

Kelly Cooke

Rho Phi Lambda is a honorary professional and service fraternity for students majoring in Parks, Recreation, and Tourism Management. Rho Phi Lambda's purpose is to recognize, promote, and encourage students who demonstrate high moral character and devotion to the field of Parks and Recreation.

Membership in Rho Phi Lambda is based on scholastic attainment, potential leadership, service in the recreation field, and personal conduct. Eligible students are those who have completed at least 45 total semester hours and at least 9 hours within the department. Students must also have a GPA of 3.0 overall and a 3.2 in the major.





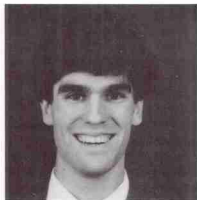
# SENIORS

STUDENTS GRADUATING IN  
DECEMBER 1991 AND MAY, SUMMER, OR DECEMBER 1992





NICK  
BALSTER,  
FORESTRY



BRADFORD  
BARRON,  
PPT

CHAD  
BEARY,  
WPS

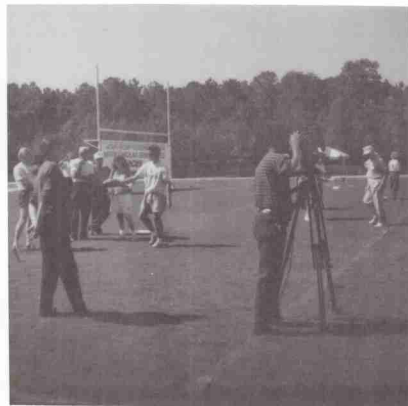
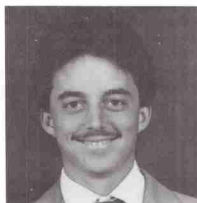
MARK DUANE  
BEST,  
PPT



MARK DAVID  
BETLER,  
PPT

GARY  
BREWER,  
PPT

TIM ALLEN  
BRINKER,  
PPT

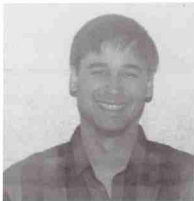


RANDY  
BYRD,  
FORESTRY





RUSSEL  
CARAWAN,  
WPS



CHRIS  
CARPENTER,  
FORESTRY



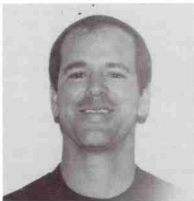
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CARTER,  
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CHERYL  
CASE,  
FORESTRY



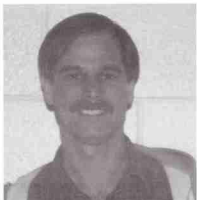
RODNEY  
CHAMBERS,  
WPS



ROBERT  
CLARKE,  
FORESTRY



DAN  
DANIELS,  
WPS



BILL  
DEMAY,  
FORESTRY



BRAD  
DUCKWORTH,  
FORESTRY



IVAN  
EVANS,  
FORESTRY

RICHARD  
FIELDING,  
PPT



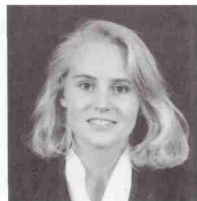
KIM  
GOLDBERG,  
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LISA  
GREENE,  
PPT

CHRIS  
HAYTER,  
PPT

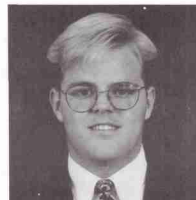
MARK  
HAYTER,  
PPT



ANGELA  
HEINRICH,  
PPT

ANDREW  
HOBSON,  
PPT

BARBARA  
HOFFMAN,  
FORESTRY



THOMAS  
HOFLER,  
FORESTRY

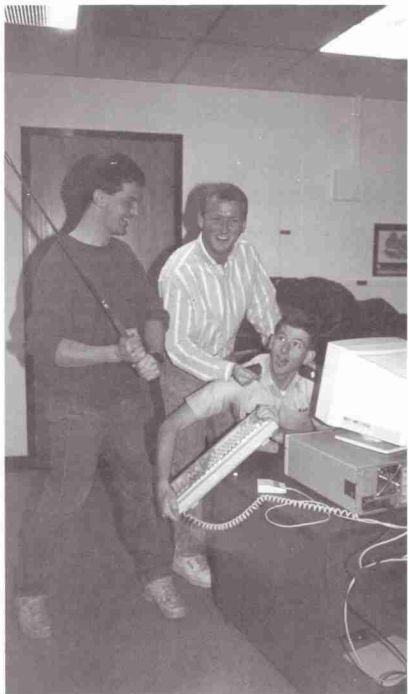
TODD  
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MONICA  
HYSON,  
PPT

MICHAEL  
JACKSON,  
PPT

CHRIS  
JONES,  
PPT



SCOTT  
KING,  
WPS



JOHN  
LEWIS,  
PPT



ROBERT  
LEWIS,  
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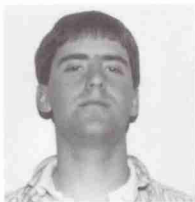
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MATTHEW  
McCRACKEN,  
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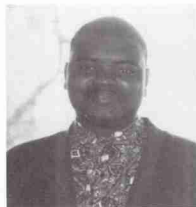
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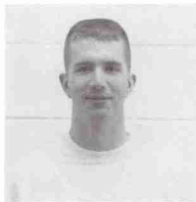


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FORESTRY



WENDELL  
OVERBY,  
FORESTRY





TREY  
PAYNE,  
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ODELL  
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MIKE  
PETRUNCIO,  
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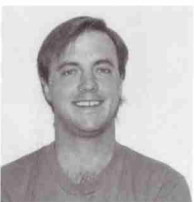
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CAROL LEE  
SANDERS,  
PPT



UDAI  
SINGH,  
PPT

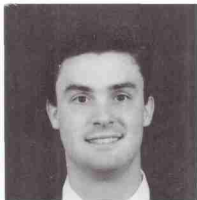
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SHUMAN,  
FORESTRY



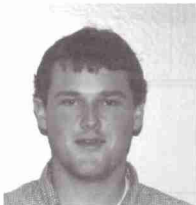
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MICHELLE  
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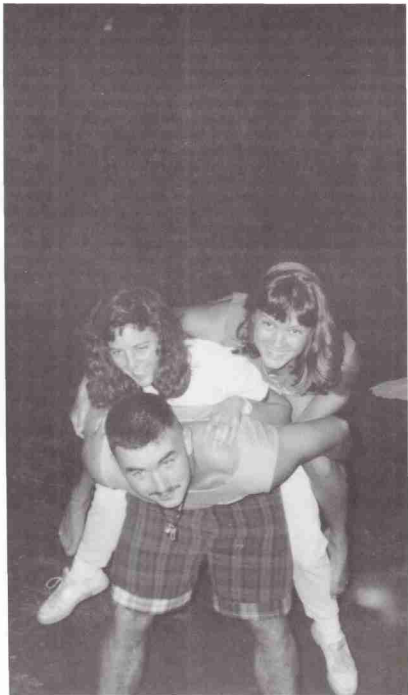
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THOMAS,  
PPT



PAULA  
TROXELL,  
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TUCKER,  
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MICHI  
VOJTA,  
FORESTRY



TRIP  
WHITE,  
PPT



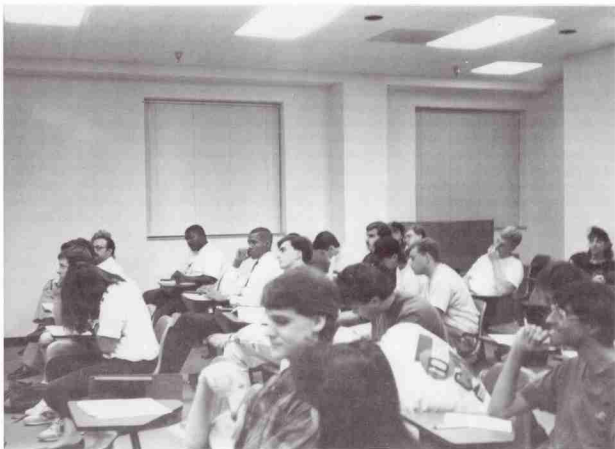
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TROY A.  
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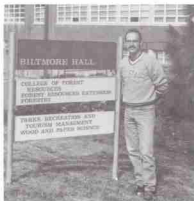
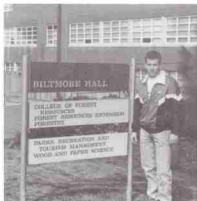




ANDY  
AMIDON,  
PRTM

W. GREGG  
ANDERSON,  
PRTM

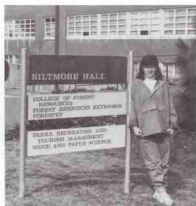
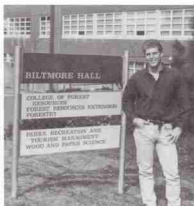
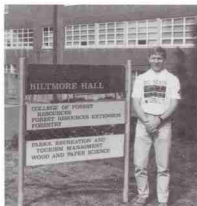
JULIE  
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PRTM



KELLY  
COOKE,  
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ALAN  
DARR,  
PRTM

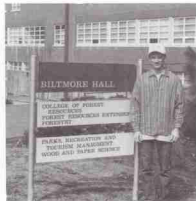
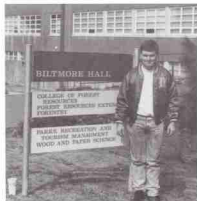
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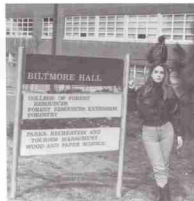
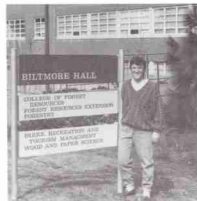
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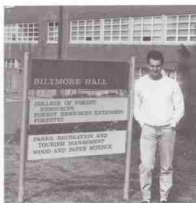


SUSIE  
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REBECCA  
MAXWELL,  
PRTM

MARK  
MCMREERY,  
PRTM

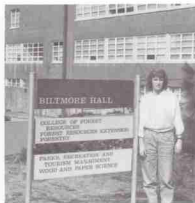




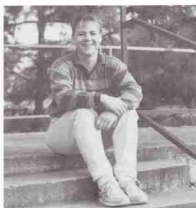
RICHARD METCALF, PRMT



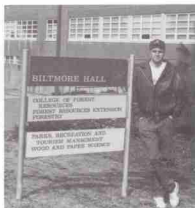
WENDY PERKINS, PRMT



KRISTEN SHEA, PRMT



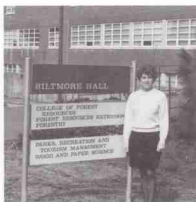
STEPHANIE SHOOK, PRMT



TOMMY STARNES, PRMT



SHANE THARRINGTON, PRMT



BECKY VENRICK, PRMT



JENNIFER VIETS, PRMT

**SENIOR PHOTOS NOT AVAILABLE:**

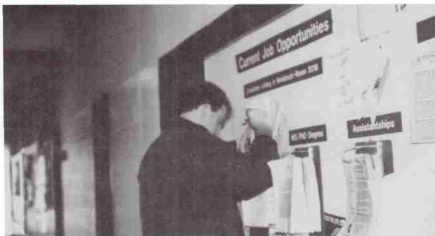
KEVIN ANKROM, PRMT  
DANA BAKER, PRMT  
KIM BECKHAM, PRMT  
MELANIE BRINKLYE, PRMT  
RICHARD BROPHY, II, PRMT  
APRIL CELESTINO, PRMT  
ANGELITA CROCKETT, PRMT  
DANIELLE CROCKETT, PRMT  
CAROLYN FINCHER, PRMT  
JOHN FOX, PRMT  
FABIENNE GARREAU, PRMT  
FRED HAMPTON, FORESTRY

JOY HORN, PRMT  
KEN HUNT, PRMT  
JAMES JOHNSON, PPT  
KEITH KIRKPATRICK, PPT  
JOSEPH LAMBERT, PRMT  
DAVID LEE, PRMT  
ED LIVERMAN, PRMT  
SONYA LESZCZYNSKI, PRMT  
LORI MARLOW, PRMT  
MEG McCARVER, PRMT  
MICHAEL NICHOLS, PRMT  
AMY NOLES, PPT

DOUG OGLE, PRMT  
J.A. OVERBY, JR, PRMT  
RICKY PERRY, PRMT  
JESSE REGISTER, FORESTRY  
ROB REVELS, PRMT  
BLAKE EDWARDS, PRMT  
JILL SHUMATE, PRMT  
ALLISON SMITH, PRMT  
ROBERT STEPHENSON, PRMT  
JACK THOMAS, FORESTRY  
BRENT WARD, PRMT  
PEGGY ZIMA, PRMT

## ON FORESTERS AND FORESTRY

Larry Jervis



My original assignment here was to tell about the Forestry Department's job placement services - what? when? who?, etc. But I have taken the liberty of doing a bit of philosophical wandering as well.

The Forestry Department does assist students in finding employment - summer jobs, Co-op jobs, and permanent positions. These efforts supplement those of the University Placement Center, and have the strong support of the College and Department Administration. Faculty members participate by passing along job leads from their contacts in industry and government, and I co-ordinate the show by posting notices on the 2<sup>nd</sup> floor job board, scheduling interviews, and holding workshops on r'sum\* preparation and interview skills. Gary Blank, Jim Gregory and Debbie Cox play important roles in these latter activities. This is not a service which every department or college on campus provides. The fact that we do it, I think, reflects two things: first, a genuine desire on the part of the faculty to see students succeed, and secondly, a recognition that well-placed, competent graduates are one of the best ways of maintaining the institution's reputation for excellence. Over the past four years virtually all B. S. forestry graduates have obtained professional-level jobs, and starting salaries now average about \$22,000. Of these recent graduates, 30% accepted land management positions, 30% procurement jobs, and 12% urban and community forestry jobs; another 10% entered graduate school, and the rest embark on a variety of endeavors, some unrelated to forestry.

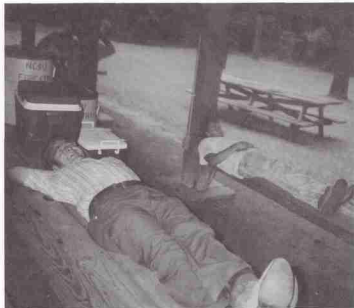
As for what forestry graduates are prepared to do, it is sometimes said (with only mild hyperbole) that "foresters can do anything." What is usually meant by this, I think, is first that forestry attracts people who by their very nature are doers - idealists with a strong sense of mission who are willing to become personally involved to see that the job gets done. In this regard forestry students have not changed much over the past 20 years. And secondly, it reflects the fact that a forestry education prepares one for a wonderfully varied array of potential careers in a way that many other curricula do not. Consider for a moment that forestry students must become accustomed to routinely thinking about and analyzing the most complex of systems

(i.e. the forest ecosystem); they get practice in dealing with multi-faceted decisions which affect vast acreages and span several decades; and they usually must devise ways to make the whole enterprise pay for itself and be politically acceptable. Such training imparts skills and a degree of self confidence which are in high demand in almost any endeavor.

If it is not literally true that foresters can do anything, it is certainly true that they can do many things, some of them quite non-traditional. For example, there are NCSU foresters in sales, real estate development, banking, and the military. There are a number who are teaching in the public schools, several nurses, at least one lawyer, and more evangelical ministers with forestry degrees than you might suspect. One of our female graduates manages a large vineyard in western NC, and another heads the Portland Oregon recycling program. We are limited only by what we can visualize for ourselves.

But there is another dogma about our profession which ought to be dispelled, both because it is untrue and because it tends to limit our own self image of who we are, and what we're about. And that is the myth that "Foresters like trees better than people." As a student, I once told a professor this very thing about myself - but I no longer believe it, and am convinced that most foresters do not. Instead, most of us eventually come to understand that forestry is more about people - their material well being, their emotional, and spiritual happiness, than it is about trees. This implies no less commitment to land stewardship, but it does mean that in the final analysis our role is to be of service to mankind. Today this often manifests itself in situations pitting the welfare of people against the welfare of a salamander or a lousewort. Foresters usually take their stand with people - not an altogether popular view. But it is a stand which recognizes the inevitability of choice and one which is honorable and defensible, and consistent with our professional traditions of altruism and public service.

To the seniors, Godspeed.



# FACULTY AND STAFF



DR. BOB  
ABT



DR. DAVE  
ADAMS

RUTH  
ALLEN

LEIGH  
BAGGS

GARY  
BLANK



DR. RICH  
BRAHAM

DR. GENE  
BROTHERS

DR. HUGH  
DEVINE

MIRIAM  
EVERETTE



JACK  
FRAUSON

DR. JIM  
GREGORY  
CANDICE  
GOODE

DR. LARRY  
GUSTKE



LEON  
HARKINS

SHIRLEY  
HARPER

DR. AWATIF  
HASSAN

DR. L.  
HENRY



DR. L.  
HOLLEY

LIZ  
HOUSE

LARRY  
JERVIS



DEE  
JETT  
  
J.J.  
JOHNSON

DR. BOB  
KELLISON

DR. M.  
KELLY



DR. S.  
KHORRAM

ADRIANNA  
KIRKMAN

BUTCH  
KISIAH

DR. JAN  
LAARMAN



DR. DICK  
LANCIA

JOAN  
LASSITER

DR. C.  
LOVE

DR. ED  
LUNK

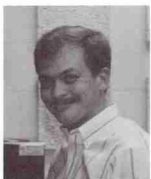


JEAN  
McMANUS

DR. ROGER  
MOORE

BROOKIE  
NIXON

JEANNE  
NOLAN



DR. H.  
OLF

SCOTT  
PAYNE

REGGI  
POWELL

STELLA  
RAND

JUDY  
ROGERS



SUE  
RUDY



DR. C.  
SIDERELIS

DR. BILL  
SMITH

DR. BOB  
STERNLOFF



CHARLOTTE  
SWART

DR. R.  
WARREN

DR. E.  
WHEELER

KATHY  
WHITE



DR. BETH  
WILSON



VIRGINIA  
WOODRUFF



RECRUITERS

KRIS  
MARTIN,

PAULA  
GRAY



LIBRARIANS

PAM  
HARRIS

CAROLYN  
ARGENTATI

MARY  
SAGAR



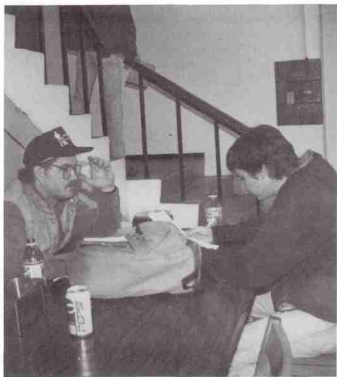
## BEST WISHES TO THE CLASS OF '92

Congratulations! You finally made it! You worked long and hard, and now you have earned a baccalaureate degree in the field of forest resources. At NC State, this is no small accomplishment. Each semester here held a different challenge for you, some greater and some lesser. Nevertheless, you endured the difficulties and continued to the end.

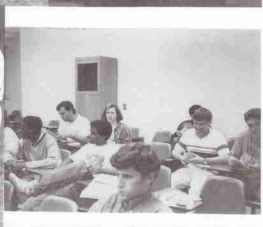
Now you face a new challenge that is even greater. You must go into the working world and apply what you have been taught. There is a great public misconception of the work we do in forest resources. It is your responsibility now to communicate to the public that we are equally concerned about today's issues, as well as actively seeking viable solutions. The days are gone in which we take for granted our natural resources. Now we must exhibit stewardship in our practices at all levels.

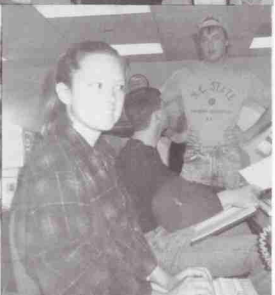
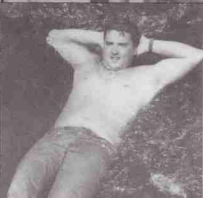
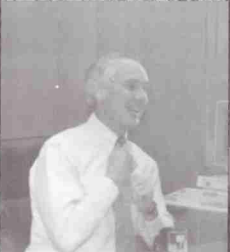
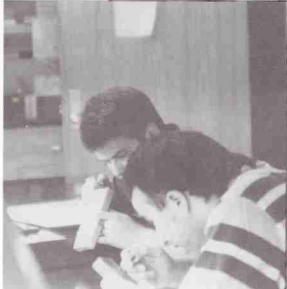
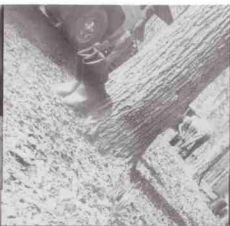
We, the class of '93, are depending on you to go into the working world and wear the name of NC State proudly. Although, when you leave, we hope that you will not forget your instructors and friends. Your visits and letters will always be welcome. We wish you much happiness and success. Again, congratulations!

Cindy Becraft, '93









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The Pinetum and its staff would like to thank all the contributing patrons for their continuing support.

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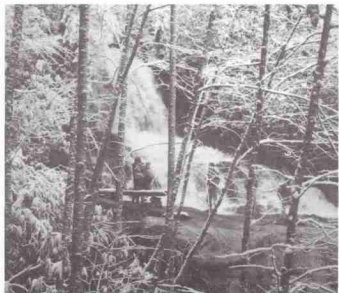
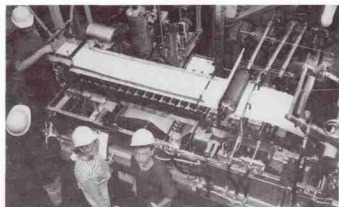
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Jerry F. Howell, Jr.	1964

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WOODLANDS



## EDITOR'S PAGE

I didn't think I'd have anything to say--the editor's page is pretty useless, 'cuz no one really reads 'em, everyone just looks at the pictures--but it be nice to mention the people who deserve it, as well as a few observations.

### 1) Late, late, **LATE!!**

There doesn't seem to be much that I do these days that isn't.

2) I apologize to those organizations that didn't get much exposure and the seniors that were not pictured. I tried to give more exposure to non-forestry activities, and to those people who I nagged incessantly, again, I apologize.

3) Thanks to all my professors (in advance) for not flunking me based on my poor attendance record this semester.

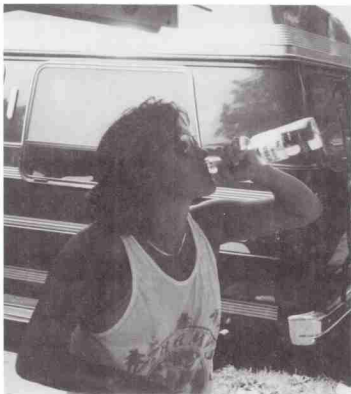
4) Thanks to those people who acted as my liasons to various clubs and departments: Fred Carter in Wood, Julie Beaver in Recreation, and my Yen-Ling Lai, my roommate and liason to Paper, who I probably irritated more than I will ever know.

5) Thanks also to Gary Blank, PINETUM advisor, for allowing me to take over his office; and Rich Braham, for teaching me how to print photos--a skill I'll hopefully have forever.

A special thanks to Kiersten List, without whose help I would be repeating this semester next spring.

Best of luck to the classes of '93 and beyond...you'll probably need it.

And to the class of '92--we, too, will need luck. Enjoy the future, and everyone...



Take care!

*Melech*

Michi