

# PINETUM

JOURNAL OF THE COLLEGE OF FOREST RESOURCES  
1995-1996

NATURAL RESOURCES  
LIBRARY

61ST EDITION

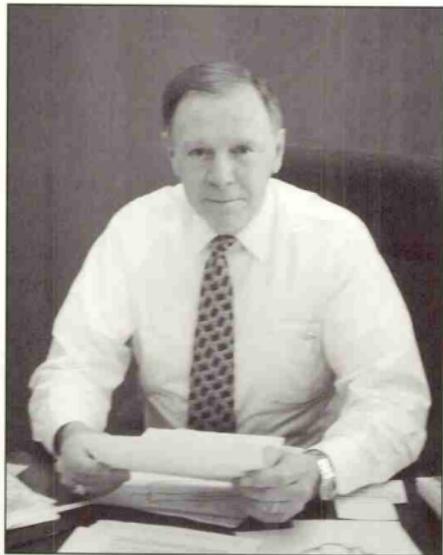
# PINETUM

**1995 - 1996  
61st Edition**

Dedicated to the College of Forest Resources 1995 graduates  
who had no **PINETUM** to call their own.



The Journal of the North Carolina State University  
College of Forest Resources  
Box 8001  
Raleigh, North Carolina  
27695-8001



# The College of Forest Resources Has All The Right Stuff

A message from Dean Larry Tombaugh

Three things are required if one sets out to build and maintain a truly outstanding academic institution. The first need is for good students. Our students in the College of Forest Resources at North Carolina State University are highlighted throughout this issue of the *Pinetum*. I may be a bit biased, but I believe they are the finest young people that can be found.

The second need is for good facilities. Ours are reasonably good, but space is beginning to be a limiting factor in our ability to grow and to fully meet students needs. We do not, for example, have adequate space for student clubs and organizations to meet and to call their own. We also need more large classroom space. The space issue will need to be addressed over the next few years.

The third needed ingredient is an exemplary faculty. This is the issue

that I wish to highlight in this issue of the *Pinetum*. The College of Forest Resources is blessed with a truly outstanding faculty, and their contributions show up in so many ways. Some contributions are highly visible, while others are known only to those who are touched directly and personally by the actions of our faculty. Let me put a few of their activities in perspective.

Over the past six years, enrollment in your College of Forest Resources has grown faster than in any other college on campus — a whopping 42% in six years. That means that there are 42% more names to get to know, exams to grade, and jobs to help find.

Students see their teachers in the classroom, but highly respected faculty at major universities like ours are asked to do much more than teach. They are also asked to use their scientific and technical

skills to uncover new knowledge through research and to transmit that knowledge to the public through publications, extension activities, and forms of outreach to the community.

On the research side, our faculty are as good as they come. Last year, each faculty member on the average generated \$110,000 of outside research grants and contracts. In other words, they brought the University and to the State of North Carolina more money than they cost the State. This is a pretty good investment of the taxpayers dollars — outstanding teachers who more than pay their own way.

But our faculty are not just in the classroom or the laboratory. You will find them contributing their expertise to the public at large in an amazing array of activities — testifying before congressional committees, working with groups of forest landowners to assure they are getting the most from their lands, helping a small sawmill operator deal with a technical problem, or playing a major role in conducting the North Carolina Senior Games program. Our faculty are touching the lives of citizens throughout North Carolina, and the state is better off because of their efforts.

There are two amazing things about this story. While the demands for teaching, research, and extension have continued to grow, the funding that we receive from the State of North Carolina to fulfill our functions has declined each year for the past six years. Indeed, we have fewer people paid by State appropriated funds for teaching than we did six years ago. Furthermore, the salary increases that can be used to reward the faculty for their contributions have been very low over the past few years as the State has struggled with real or perceived budget problems.

*'...our faculty are  
as good as they  
come.'*

The second amazing thing — and the one that is most rewarding — is that the faculty has met the challenges thrown at them without missing a beat in their care and concern for our students. This is good news. With all the pressures on them, our faculty really cares about our students. This is the reason why I am so proud to be associated with them.

And it needs to be made clear that the pressures that are placed on the faculty are transmitted directly to the many people who support them on a daily basis and who make it possible for the faculty to do their work — the staff of the College of Forest Resources. In all my experience in many parts of the country, I have never worked with a finer, more dedicated group of professionals.



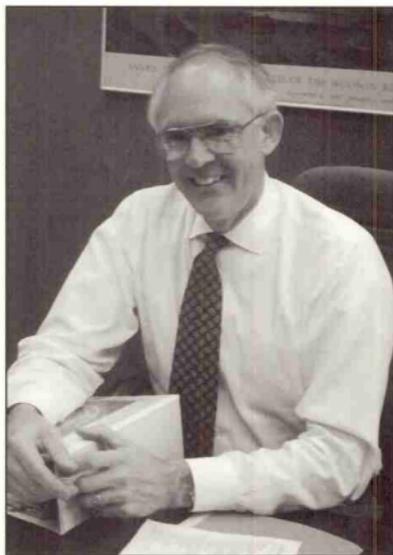
# CFR Faculty - Leaders In Teaching Excellence

J. Douglas Wellman  
Associate Dean for  
Academic Affairs

Higher education in the United States is in the midst of an historic shift of emphasis from research-primacy to a balance of teaching, research, and outreach. Of particular concern here is undergraduate instruction. The faculty of the College of Forest Resources have been leaders in seeking ways to enhance undergraduate teaching and learning.

One of the most exciting areas of work involves the use of computers in the classroom. The most significant single effort in this area has been the Student-directed, Information-rich (SDIR) Education project, funded by the Provost. Hugh Devine (PRTM) and Carolyn Argentati (NR Library) developed the SDIR proposal with the support and guidance of Larry Tombaugh, Dean of the College of Forest Resources and Susan Nutter, Director of the NCSU Libraries. Hal Meeks of the NCSU Computing Center later joined the team to provide technical support.

The SDIR concept is to use multimedia and the Worldwide Web to provide students with a rich and readily accessed body of information that they could use in projects they direct, whether they are working singly or in teams. This approach will, it is hoped, get students more



actively involved in their own education and increase their commitment to learning, while at the same time expanding their horizons.

SDIR has been tested in a variety of classes across the campus, many of which are taught by faculty in the College of Forest Resources. Elisabeth Wheeler (Wood Products) developed digitized

*'...the faculty of the  
College of Forest  
Resources are  
campus and  
national leaders...'*

images of wood anatomy and physiology which students in WPS 201 and 202 could access through the Web. Dick Lancia (Forestry) and I used the SDIR approach for a case study of Cape Hatteras in NR 100. Carol Kline and Scott Payne (PRTM) are developing a Web-based, self-paced tutorial approach to CFR 134. In NR 300, Jim Gregory (Forestry) and others are using the SDIR approach for GIS exercises.

Beyond SDIR, many other college faculty are using computer technology to enhance their teaching. For example, Carol Love (PRTM) is incorporating multimedia in her classes, Kathy Hamilton-Brown (PRTM) is using e-mail chat groups, David O'Malley (Forestry) is using web conferencing, and Gary Blank (Forestry) has established an electronic reserve for FOR 406.

Advancing the technology of teaching is important, but it is only one of many areas where college faculty are working to improve teaching and learning. Two efforts illustrate this contribution. First, we are nearing completion of the Pinchot Scholars program which will provide exceptional students the opportunity to double major in Forest Management and Multidisciplinary Studies. Second, Dick Lancia (Forestry) is serving as the founding director of the newly-created NC State Center for Excellence in Teaching and Learning.

The realignment of higher education brings with it lots of excitement, but also quite a few problems and lots of uncertainty. The fact that in this climate the faculty of the College of Forest Resources are campus and national leaders in improving teaching and learning should be a source of great pride for all in the college.



# African-American Students Find Guidance and Support



An Interview with  
Dr. Jerry L. Bettis, Sr.  
College of Forest Resources  
Coordinator of  
African-American Students  
by Kelley Duffield

Dr. Jerry L. Bettis, Sr. is the Coordinator of African-American Students for the College of Forest Resources. Such a position exists in each of NC State's colleges. Professor Bettis has held this position at the CFR for thirteen years.

Our Coordinator of African-American Students has, as his primary goal, the successful graduation of all African-American students within the College of Forest Resources. In order to achieve this goal, Dr. Bettis acts as a liaison between minority students and the greater university. "Our approach is a holistic one, designed to help the student negotiate all aspects of their academic and social experience at North Carolina State University", said Dr. Bettis.

Starting with the first, pre-admission visit to the NCSU campus, African-American students are introduced to this important support system. Dr. Bettis explained that, "the African-American Symposium is a way to start minority students off on the right foot in the new and challenging university setting".

Dr. Bettis advises all African-American students to take two classes within the Multi-Discipline Studies curriculum: Freshman Advanced Seminar MDS101 & MDS102. Through these classes, students will quickly learn about the university resources that will enable them to improve their performance in classes, doing research, communicating with professors and acquiring special assistance where needed. "Studies have shown that students who enroll and complete these courses show a noticeable improvement in GPA throughout their college career" says Dr. Bettis.

College of Forest Resources minority students are encouraged to consult with Dr. Bettis on any situation that impacts on their academic or social life at NC State. "African-American students encounter all of the same stresses and successes as other students", Dr. Bettis explains.

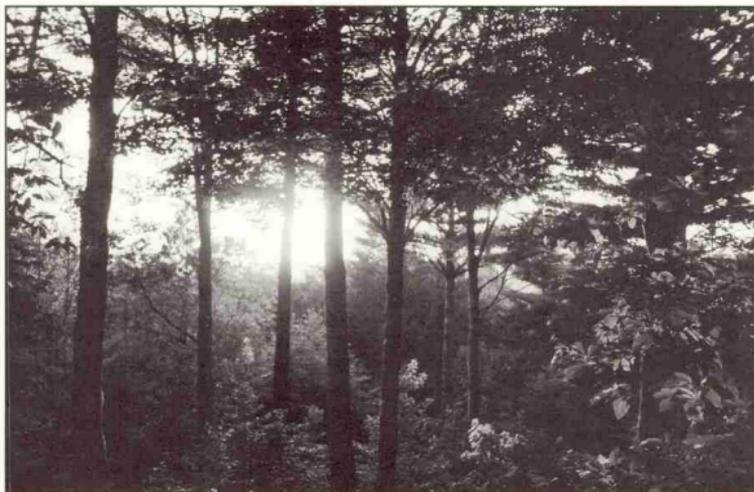
The NCSU chapter of the MANRRS (Minorities in Agriculture, Natural Resources and Related Sciences) has recently formed and conducted its first meetings this spring. The organization is open to any minority student enrolled in any of the indicated curricula. "Meetings are held in Biltmore on the last Tuesday in each month, and I hope that all of our minority students will consider joining", says Dr. Bettis.

# In Gratitude for Steadfast Support

The Pinetum would not exist if it were not for the support of the North Carolina Forestry Foundation. Each year, the NCFF has made available the bulk of the funds needed to publish the Pinetum. This is a little known fact, but no more!

The 1995-96 Pinetum, in behalf of all of its annual predecessors, wishes to formally thank Mr. Robert Beason, President of the North Carolina Forestry Foundation, Mr. Ben Chilton, College of Forest Resources Development Director and all of the generous supporters of the foundation. We honestly appreciate your support of this publication and encouragement in carrying on the Pinetum tradition.

The North Carolina Forestry Foundation has brought more to CFR students than just the Pinetum. It has established numerous scholarships and two endowed professorships. The Department of Parks, Recreation and Tourism Management received its first endowed scholarship from the NCFF in 1994. Supporters of the NCFF listen to the final presentations of students and provide gifts of equipment and services to our labs.



# Optimistic Outlook Characterizes Department of Parks, Recreation and Tourism

Dr. Phillip S. Rea  
Department Head, PRTM

In its 49th year of existence, the Department of Parks, Recreation and Tourism Management has the vitality and optimism of its graduates: full of energy, unsure of what the future folds in store, but confident that hard work and commitment will bring positive results. Examples of positive events can be found in every aspect of the department's academic, research and outreach programs.

The strength of any university curriculum lies with its people: students, faculty and staff. The successes of PRTM during the past year certainly proves that statement true. A few reasons for my optimism include...

During the past year, undergraduate enrollment grew by 15% to 167 while graduate enrollment remained the same at around 60. The department is nearing its capacity given the size of its faculty and classroom limitations.

A number of students were recognized for outstanding performance: Christy Mingis and Julieanne Ostergaard received Recreators' Foundation Undergraduate Scholarships at the annual conference of the NC Recreation and

Park Society while Laura White received the Fletcher Outstanding Graduate Student Scholarship.

Two new faculty and one staff member joined PRTM during the past year. Dr. Angela Lumpkin joined the department in August to support the growing interest in sport management at both the undergraduate and graduate levels. Mr. Ed Lindsay joined the department as an instructor in January. Dr. Lumpkin also serves as chair of the University Faculty Senate. Mr. Lindsay is completing his doctorate in adult and community college education. Ms. Linda Dingfelder joined the department as secretary and coordinator of the monthly Job Service Bulletin.

The department generated \$830,000 in external grants and contracts during 1994-95 and over \$700,000 in the first nine months of 1995-96. External funds enabled the department to support 15 graduate students.

Dr. Hugh Devine and Carolyn Argentati, Head of the Natural Resources Library, received a grant from the Provost's office to develop new "student-directed, information-rich" teaching and learning systems utilizing computer CD ROM programs. Their work represents the application of cutting edge technology that will reinvent the way faculty teach and students learn.

The outreach component of the department, Recreation Resources Service, continued offering professional training through the North Carolina "Information Super Highway" or NC-REN system. This system allows park and recreation professionals to participate in training programs at local UNC-system college and universities as opposed to one site that requires extensive travel and cost. NC State is the only program in the United States known to offer training programs through interactive teleconferencing on a regular basis.



Dr. Phillip S. Rea

PRTM faculty continue to provide university and professional leadership as represented by the following:

Dr. Gene Brothers - president, NC Tourism Education Foundation

Jack Frauson, Recreation Resources Service Consultant - board of trustees, National Recreation and Park Association

Dr. Angela Lumpkin - chair, NCSU Faculty Senate; vice-chair, University Strategic Planning Committee; chair, Governor's Council on Physical Fitness and Health

Ed Lindsay - Director, School of Sport Management

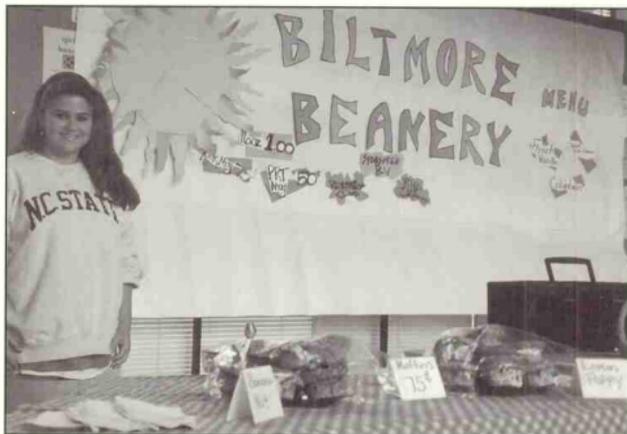
*'The strength of any curriculum lies with its people: students, faculty and staff.'*

Dr. Roger Warren - National Secretary, Rho Phi Lambda; chairman, Board of Directors, Camp Laurel Ridge

Dr. Beth Wilson - President Elect, North Carolina Recreation and Park Society

As the Department of Parks, Recreation and Tourism Management moves toward its 50th year in existence at NC State University it is encouraging to see that the level of enthusiasm and energy needed to get the program on a solid foundation has not declined. We are fortunate to have excellent students and an outstanding faculty and professional staff... a winning combination as the department's rich tradition continues to grow.

# 1996 Rec Majors Club & Rho Phi Lambda Promote PRTM Program



Rec Majors Club 1995-96 Officers  
Donna Mattingly, President  
Michael Sweitzer, Vice President  
Daniel Brown, Secretary / Treasurer  
Bill Chilkott, CFR Council Rep.  
Kathy Hamilton Brown, Advisor

Rho Phi Lambda 1995-96 Officers  
Betse Griffith, President  
Beth Taylor, VP & CFR Council Rep.  
Christy Mingis, Secretary  
Nicole Diehl, Treasurer  
Annette Moore, Advisor

The Recreation Majors Club and Rho Phi Lambda have had excellent years with increased membership in both and very active participation. A group of 15 students attended the annual conference of NC Recreation and Park Society; Wendy Stahl attended the Annual Congress of the National Recreation and Park Association as a staff intern.

The 1996 PRTM Job Fair continued to grow as 35 employers brought recruiting exhibits to the Student Center. Over 430 students from various NCSU programs visited the Job Fair on January 24, 1996. Students learned of future employment, internships and cooperative education opportunities.

Students established the "Biltmore Beanery" to raise funds to support the annual Spring Banquet through the sale of coffee and pastries. There were many willing CFR customers eager for a fresh cup of hot coffee in Biltmore, far from the Tunnel Inn or Breugers. Due to popular demand, the club expects to offer this service again. Chances are that it is an idea that will catch on with other clubs too.

After 20 years of participating in the Outdoor Recreation Consortium at Land Between the Lakes in Kentucky, the program was moved to the Great Smoky Mountain National Park. Students raised over half the cost of the program through car washes and other fund-raisers.

# Department of Parks, Recreation and Tourism Management 1996 Graduates

Logan Harry Anderson  
High Devon Autry  
Susan Alison Brown  
Brandon Lee Duncan  
Angela Holsclaw Field  
Keirstin Lynn Godek  
Kimberly Baldwin Jordan  
Clifford Banks Mason  
Donna Judith L. Mattingly  
Julianna Marie Ostergaard  
James Gary Ray, Jr.  
Kevin Wilson Randall  
Steven Gary Smith  
Christopher Armordo Tortu  
Katherine Glenn Truluck



# Wood Products, Pulp & Paper Science and Technology Programs Strive for Highest Achievement

As the Department of Wood and Paper Science moves closer to the new decade, students experience the best that cutting edge technology has to offer while traversing time-tested academic programs.

Eighty-five percent of our undergraduates participate in hands-on internships or academic summer camps. Students in the Wood Products curriculum participate in a 5-credit hour practicum held each summer by the Department of Wood and Paper Science. The Summer Practicum is a career enhancing opportunity for students, as well as, an exercise in team building. They become better acquainted with various manufacturing processes and emerging technologies in their chosen field.

Our students are privy to new techniques being developed in the College's Wood Machining and Tooling Research Center, which a recent *U.S. New & World Report* article called "a cross between a machine shop and a physics lab, [where researchers use] lasers, electron microscopes, vibration detectors, electronic strain gauges, and computer models to study exactly what happens, sometimes down to a millionth of a meter, when a metal tool meets a piece of wood."

The department is now on the World Wide Web generating inquiries from students interested in the department [[http://www2.ncsu.edu/ncsu/forest\\_resources/wps/wps\\_hp.html](http://www2.ncsu.edu/ncsu/forest_resources/wps/wps_hp.html)]. Dr. Elisabeth Wheeler, in her work on the Student-directed, Information-rich Educa-

tion project (SDIR), developed digitized images of wood anatomy and physiology which student in WPS 201 and 202 could access through the Web.

Wood Products students learn the anatomical, physical, mechanical, and chemical properties of wood and wood composites. They study business management. By the time they graduate, they also know computers. They've learned the science of wood, and they've also swept the floors. It's the combination of practical experience and advanced knowledge that makes the best graduates.

Dr. Elisabeth Wheeler and Dr. Gary Baum have been elected to the International Academy of Wood Science. Dr. Wheeler is editor of the International Association of Wood Anatomists Journal. With professionals such as these and new faculty being added, it is no wonder that our program is the largest undergraduate wood products program in the country.

The Department of Wood and Paper Science is a research leader in the mechanical pulping of wood, a process that greatly reduces the use of chemicals in the pulping process. The technologies and issues associated with recycled paper, and specifically de-inking, keep our students and faculty challenged.

Every year, about 70 students enter the Pulp and Paper Science and Technology Program. Most are recruited by the Pulp and Paper Foundation, Inc. The Foundation recruits outstanding high school students vigorously because it knows the future of the industry depends on the quality of the people who enter it.

The Pulp and Paper Science and Technology (PPT) program in the College of Forest Resources is the leading program of its kind in the nation. Students in the PPT Program learn about pulping, papermaking, and paper recycling on state-of-the-art machinery.

The Department is not content to rest on any real or perceived laurels. Work continues on a strategic plan that has been submitted to the college and university. The first ever annual report for the department is in the works. This document will describe academic programs, research areas, facilities, and provide information on faculty, research and administrative staff, visiting scholars and graduate students. 'We see this as a useful document for recruiting purposes as well as informational for industry supporters, government and others', writes Department Head, Dr. Gary Baum in the Winter/Spring 1996, *Pulp and Paper Foundation Newsletter*.

The connection between industry and education has never been stronger. The Department is hosting the 3rd TAPPI Industry Needs Conference on April 23 - 24th, 1996 in Raleigh. The workshop brings together experts from the pulp and

paper and allied industries to discuss the research needs for the future. Eight committees will deal with topical areas: Fibrous Raw Materials, Environment, Energy, Pulping and Bleaching, paper-making Processes, Surface and Structural Treatments, Recycling, and Sensors and Process Control. Each Committee will prepare a prioritized list of needs for their area and will then come together to prepare a single list of high-priority research needs for the industry. This activity is expected to complement the work of the six Agenda 2020 Task Force Groups.

What else is on our plate? How about our commitment to pursuing a wood chemist for The Buckman Professorship, participation in the Emerging Technologies workshop sponsored by TAPPI and the Pulp and Paper Foundation, and the TAPPI Industry Research Needs Workshop?

In the pages that follow, you will see not only the results of what this department offers, but most importantly, the motivation behind the department's drive toward the highest in academic and research achievement.

**Please visit us on your next trip to the Web at:**

[http://www2.ncsu.edu/ncsu/forest\\_resources/wps/wps\\_hp.html](http://www2.ncsu.edu/ncsu/forest_resources/wps/wps_hp.html)

**We value your feedback!**

The information about these advances, programs and growth areas just scratch the surface of relevant activities during the 1995 and 1996 academic years. The sources of information for this article came from just two publications, The College of Forest Resources Annual Report 1993-1994 and the Pulp and Paper Foundation Newsletter, Winter/Spring 1996.

# Wood Products Summer Practicum

by Bernard Harberts

The summer practicum is the first time Wood Products students apply their class room knowledge to the machines and kilns found in Hodges lab. For most, it marks the transition from studying wood to working on wood. During the five weeks they spend in the lab, they are exposed to the equipment and processes they will find when they graduate. Mornings are spent in the classroom; afternoons in the lab. They will sand, spray, sweat, swear, sup, and study together. And after five weeks of toil, they will emerge with the fruit of their labors.

To individualized the experience, each student builds a piece of furniture. This year's participants built a four drawer bachelor's chest. Working in groups of three or four, participants transformed green lumber, rough swan planks, and composite cores into usable components. Drawer fronts were glued and shaped. Moldings were cut. And tops were beveled. Once sufficient pieces were made, students began assembling individual chests. As the weeks progressed, rails joined stiles and bottoms met drawers. Before long, Hodges Lab resembled an assembly line full of furniture awaiting the final finish coat. And by the time they left the spray booth, each one reflected its builders personality. Some were distressed, other perfect. Some were dark and others light. But when the Dean came by, they all looked perfect.

But the whole practicum is not spent in the lab. During the last week, students take to the road and visit area plants and factories. This summer proved no exception. On Monday everyone eagerly piled aboard two red vans bound for their first encounter with industry. This first hand glimpse into the wood industry



proved to be an eye opener. Far from the Ivory Tower and the calculated confines of Hodges Lab, students saw the practices they would face after graduation (both good and bad). The scope of places visited was impressive. In Greensboro, students visited the country's largest cedar mill (complete with cedar oil refinery). In Banner Elk, they watched as poplar logs were peeled and laid up into high quality hard wood plywood. And in Elkin they witnessed the people-less production line of an automated fiberboard plant. In addition to visiting thirteen operations, they had the chance to meet graduates from the Wood Products curriculum. These contacts convinced students that they would really use the material they were studying. But by Friday, the week on the road had taken its toll. On the ride home, the vans were a lot quieter. Spent by their encounter with the "real" world, student passed the time dreaming of the blissful years of college that lay ahead.

After five weeks of intense study and hard work, the practicum drew to a close. The lab was straightened up, glistening chests were loaded into padded trunks, and new friends said good bye to each other. With a grand sense of accomplishment and a twinge of sadness, students left for their respective homes and summer jobs. The transition from raw talent to polished experts had begun.

# Forest Products Society

## 1995-96 Year of Rebuilding



by John D. Barkee, FPS Club President

### 1995-96 Officers

John D. Barkee, President

Bernard (Bernie) Harberts, Vice President

Pam Wall, Secretary

Jeff Chapin, Treasurer

Jonathan Whitely & Chris Parrow, CFR Council Reps.

The NCSU student chapter of the FPS was in a rebuilding year this year. After a couple of slow years the club got a little momentum this year.

One reason the club had an increased turnout was the quality speakers that we had at our meetings, including: Wilson Jones from Mackeys Ferry Sawmill, Shawn Mullen from Hallmark Woodcraft and Dr. Tom Skaggs from the American Plywood Association (APA). These speakers help the members of the club get a broader perspective on the different segments of the wood products industry.

Along with having two picnics this year, many of the members attended the Carolinas Woodworking and Furniture Supply Show in Greensboro.

The club will be sending a group to the International Woodworking Machinery and Furniture Supply Fair in Atlanta this coming fall. These shows provide a great learning experience for the students, by letting them see first hand many of the things they have learned in the classroom.

The Forest Products Society, headquartered in Madison, Wisconsin, is an international, education association founded in 1947 to provide an information network for all branches of the forest products industry. The Forest Products Society has nearly 20 student chapters on campuses across the nation.

# Department of Wood Products WP 1996 Graduates

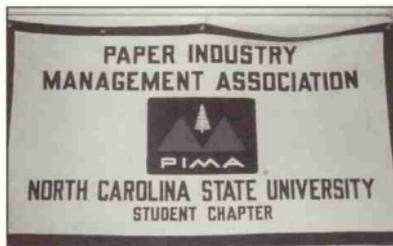
John D. Barkee  
Joshua Warren Edwards  
Kyle Douglas Evans  
Christopher Gregory Parrow  
Michael-Jon Tillman  
Jonathan Davis Whitley



# TAPPI / PIMA Take on New Orleans



1995-96 Officers  
Todd Howell, President  
Karen Shigehara, Secretary  
Jennifer Hinson, Treasurer  
Mike Holloway, Programs  
Eliot Malak, Publicity



Phil Jordan, Sr. Class Rep.  
Valerie Pai, Jr. Class Rep.  
Brent Shorter, Soph. Class Rep.  
Ryan Hobbs, Student Senate Rep.  
Jay Cawthorne, CFR Council Rep.  
A. J. Kirkman, Faculty Advisor

TAPPI / PIMA members kept busy during the '95 -'96 academic year with industry speakers at their monthly meetings and recruiting events.

As many as eighty seniors and merit scholars attended the 41st Annual Meeting of the Pulp & Paper Foundation in Raleigh on November 2nd and 3rd.

The NCSU chapter was represented at the Virginia - Carolina TAPPI meeting held from November 16th through the 18th.

The national TAPPI meeting was held in New Orleans from March 4th through 6th and five NCSU TAPPI mem-

bers were in attendance. Some members took on the extra challenge of participating in a special problem solving session the day prior to the meeting.

TAPPI members have met with North Carolina legislators during their participation in a legislative dinners in Greenville and Asheville.

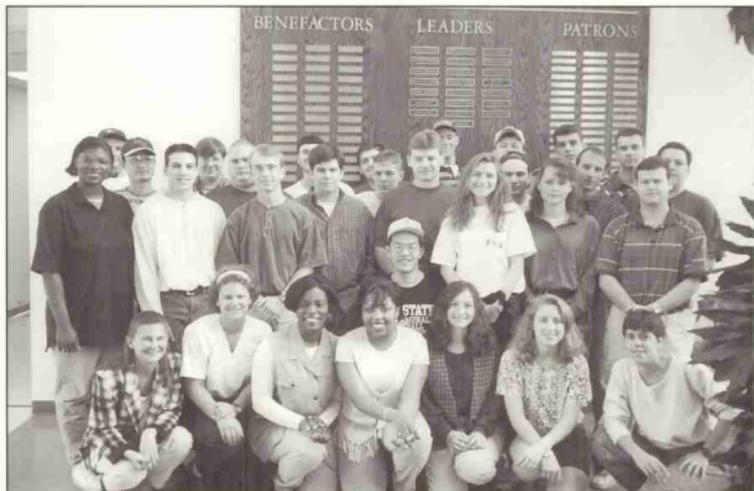
Three students traveled to Washington, D.C. to participate in the International Bleaching Conference.

With so much going on it is impressive that many of this year's graduates will have dual degrees in Pulp & Paper Technology and Chemical Engineering.

# Department of Pulp and Paper Science 1996 Graduates

Steven Christopher Bacon  
Kendra Krystyna Batley  
Leigh Phipps Barr  
Dehalvalyn Sherrell Black  
James Edwin Cawthorne, Jr.  
Donna Lynn Cleaton  
David Russell Floyd  
Ryan David Hobbs  
Kevin Matthew Holtman  
Todd Elliott Howell  
Phillip Todd Jordan  
Harry Atkins Lawton, III

Joseph Eliot Malak  
Michael Lloyd Moore  
Wesley Bowd Petrea  
Monte Wayne Powell, Jr.  
Michael Schwartz Rambusch  
Loletta Catrice Redmon  
Melissa Carol Ricks  
Timothy Lee Scheining  
Brian Timothy Spear  
Christopher Ryan West  
Elizabeth Ann Wones  
Robert Chung-Hua Yang



# It's easy to get involved as an alumni. Just ask!

Ben Chilton, Resources Development Director



Most of the Class of 1996 will be leaving the University with the requisite skills that will help provide a happy, rewarding, and comfortable life. Many of you will eventually take an active role in helping promote and support you alma mata. That is the heart of my short message to you.

As the external affairs/fund raising person for this college, I have the privilege and enjoyment of working with many of the alums from the various segments of the College of Forest Resources. All are deeply committed to their university and to their particular college, especially the program where they received their degree. They take particular pleasure in helping make things better for the future classes. And, they do make a difference. Many are involved in very important committee work such as recruiting and fund-raising. Several have even endowed their own scholarships with the N. C. Forestry Foundation or the Pulp and Paper Foundation. A number of our alumni are members of the board of directors or officers of these foundations. Many, without your knowledge, have helped make your stay in this college more educational and rewarding.



# Forestry Department Recalls Two Outstanding Years

Dr. Fred Cabbage, Department of  
Forestry

The Department of Forestry has had many notable accomplishments in the last two academic years, ranging from student activities and awards to program revisions to faculty accomplishments.

In 1995, The Department received reaccreditation for its Bachelor of Science degree in Forest Management through 1999. In 1996, we received official permission to officially enroll and co-advise Wildlife Science majors, which will be done by the full-time and joint wildlife faculty in the Department. Previously, all undergraduate wildlife majors were advised only through the College of Agriculture.

The undergraduate students in the Department of Forestry have been active in 1995 and 1996 in forestry recreational and professional activities. The Forestry Club, which has been advised by Joe Roise, finished the spring season of 1995 with a fourth-place finish at the Southern

Forestry Conclave. President Jennifer Willoughby led the club in an active Fall of 1995 attending various forestry skill exhibitions and holding the annual fall Rolleo. At the same time in October, three undergraduates attended the national Society of American Foresters convention in Portland, Maine. Three also attended Appalachian Society of American Foresters Meeting in Myrtle Beach in January 1996.

The Forestry Club raised some funds for the 1996 Forestry Conclave with wreath and garland sales, which we hope they will continue in future years, in lieu of the slightly more lucrative but increasingly hazardous urban forestry activities.

The Natural Resources students formed a student chapter of the National Association of Environmental Professionals, and two undergraduates attended a National Association of Environmental Professionals meeting in Washington, D.C. at the end of 1995.

Last, but certainly not least, Kelley Duffield single-handedly took the initiative

to revive the PI-NE-TUM, for which we are all grateful, and is now assisted by Gary Blank and an able student staff.

In the 1995 academic year, Forest Management major Alexander Krings won a NCSU Undergraduate Research Award, and Natural Resources-Ecosystem Assessment major Hyatt Ford won a Southeastern Xi Sigma Pi Scholarship.

Several faculty in the Department also received notable recognitions in 1995. Ron Sederoff, Professor in Biotechnology, was elected to the National Academy of Science. Larry Jervis was selected as a NCSU Outstanding Profes-

sor, and Richard Lancia was selected as the Alumni Distinguished undergraduate Professor. Richard Braham won the College of Forest Resources teaching award for the Board of Governors competition. Extension Forester Rick Hamilton received awards for the NC Forest Service Stewardship Award, and as the Forest Farmers Association Extension Forester of the Year in 1995. Jan Laarman received the NCSU Jackson Rigney Award for International Service.

And last, in 1996, Richard Lancia accepted an interim assignment as the first Director of the NCSU Center for Teaching Excellence.

*'These forestry and natural resource activities provide good means to meet employers and to develop professional allegiances.'*

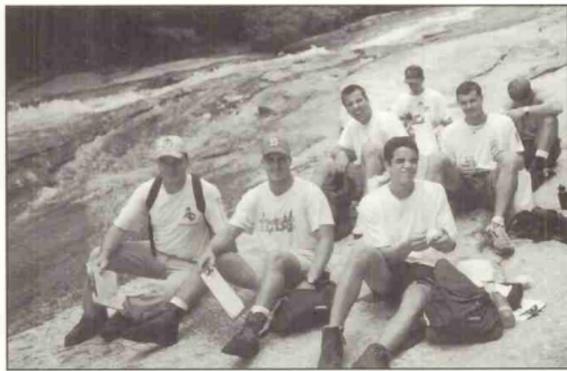


# Forestry Summer Camp 1995...

## Another Day in Paradise!

The annual ten week summer camp for Forestry majors and minors turned out to be the muddiest on record. The base camp at Hill Forest became a "model in soil erosion" after two and a half straight weeks of rain. During this period, the bridge that crosses the Flat River was closed repeatedly and eventually washed away. At one point, the supply of water from the camp's well was affected and the students experienced "sediment load" on a personal basis.

Despite the soggy beginning, thirty-two juniors worked their way through Mensuration, Wildlife, Coastal Plain Communities, Mountain Communities, Silviculture and Fire School. They waded in rivers and calculations, and tangled with briars and computers. They put in long hours on homework, cruising and shooting pool. They watched birds, feller bunchers and videos. Large quantities of biscuits and computer paper were consumed. There were mensuration & silviculture parties and birthday parties. A new tradition: The Hill Forest Allnight Olympics featuring midnight bell-ringing, marathon exam-cramming, and the most hysterical and painful track & field events ever attempted.



Thanks go out to:

Bee - "Don't touch my Car!" - Biscuit Queen  
Scott - Jose - Good Cop / Bad Cop - Harris  
The Lancia & Jervis Show  
Danny - *Semper Fi* - Short-timer - Leadford  
Tofer - Stogy - "Anything but Kristofer" - Baker  
Kelley - "Wait for me!" - Scared Silly - Duffield  
Tom - Unofficial TA/Steward - Chief - Bevier  
Green Limo: Ryan Keeter & Shannon McDonald  
Docs and Profs who taught & taunted us  
through the ten credit-hour semester.

# Forestry Club and SAF Stay Busy



## 1995 - 96 Officers

Jennifer Willoughby, President  
Daniel Carpenter, Vice President  
Jennifer Barnes, Treasurer  
Derrick Faw, Fall 1995 Secretary  
Troy Lucas, Spring 1996 Secretary  
Ryan Norris, Fall 1995 Sergeant-at-Arms  
Alan Hill, Spring 1996 Sergeant-at-Arms  
Dr. Joe Roise, Faculty Advisor

Festival in the Park, Roanoke Rapids, NC  
September 16, 1995

West Point Crab Festival, West Point, VA  
October 7, 1995

Rolleo, Hill Demonstration Forest  
October 28, 1995

SAF 1995 National Convention, Portland, Maine  
October 28 - November 1, 1995

Christmas Tree and Wreath sales  
December 1995

Appalachian Society of American Foresters Meeting,  
Myrtle Beach - January 1996

Conclave, Hot Springs, Arkansas  
March 21 - 24, 1996

Guest speakers from IP, GP, Weyerhaeuser and more!

The Forestry Club of North Carolina State University at Raleigh, has a long and distinguished history within the College of Forest Resources. The organization consists of students (undergraduate and graduate), faculty advisors and technical advisors dedicated to furthering the interests of Forestry. The club combines many of its activities and efforts with those of the Society of American Foresters (SAF) on the national and local levels.

The club participates in intercollegiate, woodsman's arts competitions held throughout the Southeastern United States and sponsors an intracollegiate competition of its own known as Rolleo. Members participate in regional and national SAF conventions.

Community service, practical experience, monthly meeting guest speakers, career development and fund-raisers round out the activities of the organization. Active memberships are open to all students pursuing forestry related studies. Participants are considered active members if they are current on annual dues and attend at least two-thirds of the semester meetings. Associate memberships are offered to faculty, alumni and industry members through a club-wide election process.

Meetings are held monthly on alternating Tuesday evenings at 7pm. The meeting location is Room 2010, Biltmore Hall unless otherwise announced.

# Rolleo for 1995: Skeet, Saws, Barbeque and More

Rolleo is a daily long competition between the classes at the College of Forest Resources. The competitions are based on old time sawing and chopping skills, with some newer categories like DBH estimation, pacing and compass use.

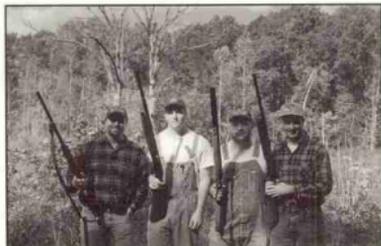
The 1995 competitions were held at the Hill Forest on October 28. It was a day of fun, food, fellowship and barbeque.



Seniors and Juniors dominated the sports with some stiff competition by alumni. Professors and students alike came to both participate and observe.



Some participants came to the "Hill" the night before the competition and stayed in the camp's cabins. The party started early and ran late!



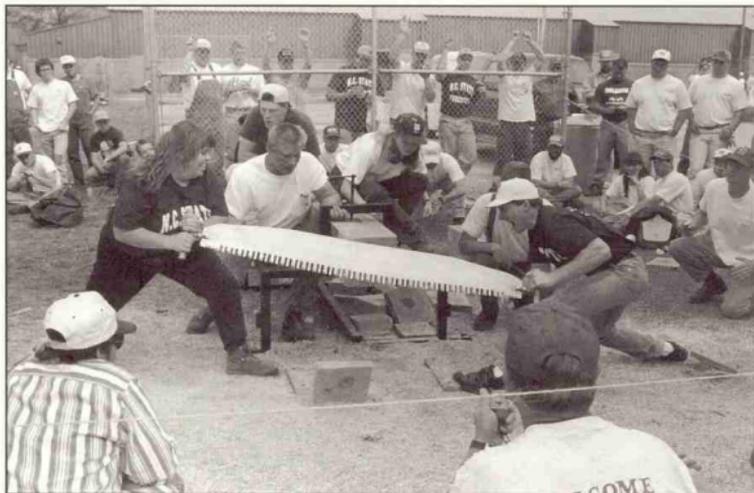
The Forestry Club and the Society of American Foresters jointly sponsor Rolleo and offer their thanks to the following people and organizations that helped make it happen.

Mr. Randall Thompson  
Person Hardwoods  
Mr. Fred Hampton  
James West  
Larry Jervis

# Forestry Students Brave Snow & Ice to Attend 39th Annual ASFC Conclave 1996

Hot Springs, Arkansas was the site of this year's Conclave competition, held from March 20 through March 24. Conclave is an annual forestry competition between fourteen southern forestry schools. NCSU's CFR Forestry Club/SAF never miss a meet. Like Rolleo, Conclave brings out the best in woodsman's arts, skills and knowledge, but the competition is fierce and the rivalries are hot!

Eighteen students and faculty, headed by Dr. Joe Roise made the snowy trek to Arkansas to represent NCSU. They really left their mark with the crosscut saw, taking home first or second in all such events. NCSU team members also participated in other events such as the log-roll, chain throwing, chopping and pole climbing.



The Raleigh Chapter of the International Society of Tropical Foresters (ISTF) is a student - run, non-profit organization based at North Carolina State University (NCSU). The organization has greater than 1000 members worldwide. The Raleigh Chapter acts in concert with the Office for International Programs of the College of Forest Resource (CFR). The objectives of the ISTF are 1) to advance the science, technology, education and practice of professional forestry in the tropics and to use the knowledge and skills of the profession to benefit society as a whole 2) to encourage and support the activities of the International Programs of the CFR and the Department of Forestry at NCSU, and 3) to encourage and support ISTF members in their personal and professional development while undertaking their degree programs at NCSU.

Each spring, ISTF organizes a field trip to a "tropical" country. This is the capstone academic experience for future professionals in the fields of tropical conservation, forestry and biology. The objective is to present interested and motivated students and faculty, to the many aspects of tropical forests and a wide variety of projects including industrial plantations, community forestry initiatives, and biodiversity and conservation research. Students without previous tropical or overseas experience gain valuable insights into the culture of a particular country, it's tropical forest management, development and conservation.

ISTF meets monthly to hear guest speakers and view slide presentations, focusing on some issue in the international arena. Topics usually include current research issues in the tropics in which students and faculty are involved. ISTF also organizes annual events such as conference attendance and special guest speakers. Membership in the organization is open to any person with an interest in international forestry and environmental issues.

# International Society of Tropical Foresters



## 1995-96 Officers

Carolyn Henri, President  
Scott Bode, Vice President  
Ben Addlestone, CFR Council Rep  
Julie Tanner & John Russell

The Raleigh Chapter of the ISTF has a strong membership this year of 38 students. This year's monthly meetings have attracted at least 25 students and many non-members. International Field Trip to Costa Rica, 1995 Clearcutting Conference, October meeting guest speaker, Rev. Michael Kumalija, Director Caritas speaking on the subject of Agroforestry and Community Development in Tanzania.

Earth Day '96 fund-raiser selling trees and T-shirts. Ola! From International Society of Tropical Foresters

For the past five years, the ISTF has sponsored and international field trip to a tropical forest ecosystem. Participating students and faculty pay for over half the cost of the field trip and the ISTF funds the remaining cost. This experience serves to further the knowledge and science of protecting and managing tropical forests to the benefit of our global society. In addition, students are given the opportunity to establish professional and academic contacts for future research and employment.

The year's international field trip took 12 students and faculty to Brazil. The trip took place from May 12-26, 1996.

# National Association of Environmental Professionals Forms NCSU Chapter

The organizational meeting of the North Carolina State University Student Chapter of the National Association of Environmental Professionals was held on September 27th, 1995. The meeting featured food and refreshment and attracted students and faculty in many environmental fields.

Tim Plemmons, Rhonda Hunt and Tracy Hyder, with the guidance of Dr. Gary Blank, acted as interim officers in preparation for regular elections scheduled for Spring '96.

With the meeting on April 2nd came elections and a new direction for the organizations future in the College of Forest Resources.

The North Carolina State University Student Chapter of the National Association of Environmental Professionals (NAEP) was established in order to provide a forum for students, faculty and staff, to exchange information, ideas and experiences, relating to environmental vocations. The organization strives to promote the advancement of the state-of-the-art in: interdisciplinary environmental education, research, planning, assessment, review and management.

The NAEP at NCSU fosters an on-campus awareness of pertinent environmental issues and ideas that affect natural resources and all people on local, regional, national and international levels. Through lectures, seminars and field activities, the organization hopes to stimulate students to pursue greater knowledge and appreciation of the complex environmental issues facing the area surrounding the university and the entire country.

The NCSU chapter of the NAEP adheres to the NAEP, Inc. By-laws and Code of Ethics and Standards of Practice for Environmental Professionals. Membership in the organization is open to all students, faculty and alumni of the university with a professional interest in any environmentally related field. Voting members include undergraduate and graduate level students, enrolled in environmentally related degree programs and who attend at least one regular meeting per semester. Students are encouraged to become individual members on both the local and national levels of the organization.

Meetings of the NCSU Student Chapter of the NAEP are held at least twice per semester and are open to all interested students and faculty.

# Forestry Management 1996 Graduates

Andrew Lee Baker  
Jennifer Lea Barnes  
Adam Franklin Brewer  
Douglas Carter Burleson  
Jeffrey Lane Correll  
John Wesley Coulston  
Kevin Todd Dowdle  
Karin Havlin Hess  
Alan Walker Roe Hill  
Thomas William Lane, Jr.  
Michael Troy Lucas

Roger Louis Mabry, Jr.  
Brian Eugene Medlock  
Keith Ray Money  
Ryan Thomas Norris  
Jeffrey Stephen Page  
Kyle E. Parshal  
Teresa Kisamore Serbyn  
James Keith West  
Philip Ralph Whitfield  
Randall Thomas Witt  
Brian Lucas Wood



# Natural Resources 1996 Graduates

**Policy and Administration**  
Michael Guise Frisk

**Ecosystem Assessment**  
Randall Nathan Barefoot  
Pamela Roxana Boyle  
Cynthia Diane Buster  
Brandon Lea DeRosa  
Jodi Lynn Farlow  
Susan Ivy Fay  
Eric Shaw McGee  
Larissa Noelle McGinnis  
Thomas Lindsey Riddick, Jr.  
George Tillman Swearington, III  
Michael Walker Team  
Julia Anne Teasley  
Douglas Ray Thomas  
Robert Jeremy Willis



# Fisheries and Wildlife

## 1996 Graduates

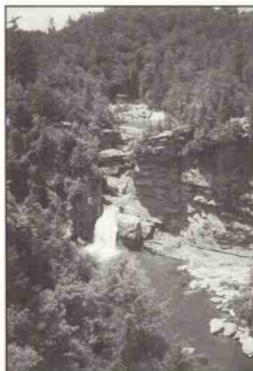
The Department of Zoology and the Department of Forestry jointly admister the program in Fisheries and Wildlife Sciences. Although these students are part of the College of Agriculture and Life Sciences, we feel like they are our partners in forestry and natural resources.

Wildlife Summer Camp is held each year for 6 weeks and is a six-hour course known as Fisheries & Wildlife Inventory and Management (FW310). But to 35 juniors majoring in Fish & Wildlife, it was more than just a class. The intensive study, research, field trips and guest lecturers kept students busy. But was still a little time left for partying, singing, swimming, site seeing, a celebration dinner out-on-the-town and getting to know one another.

The Hill Demonstration Forest near Roxboro, NC. was home base to the students who shared four-person cabins. Everyone pitched in on camp maintenance duties and dish washing. FW students got to know many of the Forestry students who were participating in their summer camp at the same time.

Dr. Richard Lancia, family in tow, teaching assistants and FW camp steward Brent Lineberger all worked hard to make sure everyone involved got maximum benefit from this unique educational experience.

Daron K. Barnes  
Harrison P. Bresee  
Douglas C. Burleson  
Ashley D. Cannon  
Robin T. Cheshire  
Kevin S. Dillistin  
Major W. Lane  
Jason D. Letchworth  
Beven H. Love  
Christopher Manley  
Michael A. McKendree  
Naseem Ostovar  
Scott H. Phillips  
Vann F. Stancil  
Edward O. Stevenson  
Katherine B. Tompkins  
Brent D. Triplett  
Julie M. Williams



# Annual Dinner / Dance Attracts All Corners of the CFR



CFR students, faculty and staff, who enjoy good food, friends and music, have found an event worth dressing up for... the annual College of Forest Resources Dinner/Dance. This new tradition, with historical roots, began in March of 1995 and continued on March 29, 1996. The North Carolina State University Faculty Club was the site of the event.

CFR students weren't the only folks attending, special guests from the Tree Improvement Program joined the celebration. Most of these students were visiting the United States from as far away as South Africa and Bangladesh.

Forestry graduate students Toshi Endo and Kelly Porter put together the 1996 event. Toshi Endo credits the CFR Council, all four departments and many of the CFR's clubs, with the financial support that kept ticket prices so low. As a matter of fact, Toshi had a surprise for the guests; an exhibition of ballroom dancing with his special guest!

There were drawings, gifts, jokes, dancing of all kinds, and lots of good food. Mark your calendar for next year 'cause this thing just keeps getting better!



# PINETUM

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### Editing, Design, Production

Kelley M. Duffield

### Photography

Kelley Duffield, Shannon McDonald, various club representatives

### Faculty Advisor

Dr. Gary Blank

### Contributors

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Jennifer Willoughby, Forestry Club President

Ben Addestone, ISTF President

John Barkee & Bernard Harberts, FPS

Reggi Powell, PRTM

Toshi Endo, CFR Dinner/Dance Co-Chair

Dr. Larry Tombaugh

Dr. J. Douglas Wellman

Dr. Fred Cubbage

Dr. Phillip Rea

Mr. Ben Chilton, NCFE & PPI

### Printer

Glover Printing, Raleigh, NC

### Software

Adobe PageMaker 6.0 for Windows

### Paper

Donated by ResourceNet International, An International Paper Company

It was a privilege to hold the position of Editor for the *PINETUM* in 1995-96. I look forward to working on the yearbook again next year. I am only sorry that I did not hear the call of the *PINETUM* last year when it faltered for the first time in 60 years! I hope that my efforts will help assure a continuing tradition of this publication long into the future... our staff calls this Sustainable Yield *PINETUM*. Underclassmen, please consider how you can make a small contribution of a photo, article or artwork to the *PINETUM* in the coming years.

Best of Luck to the 1995 and 1996 Graduates!

Kelley M. Duffield

Editor