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THE PINETUM

JOURNAL
of the
SCHOOL OF FOREST RESOURCES
North Carolina State University
1972

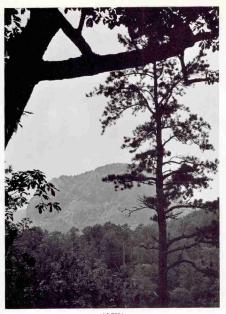
VICTOR JOHNSON, Editor-in-Chief JOANNE ERNST, Business Manager JAMES ARNETT, Associate Editor JUDY BALDWIN, Assistant Editor ROBERT KETAY, Assistant Editor JAMES GOLDSTON, Assistant Editor GLENN OGELRY, Photographer

A Publication of the Forestry Council SCHOOL OF FOREST RESOURCES NORTH CAROLINA STATE UNIVERSITY RALEIGH, NORTH CAROLINA

> Volume XXXVIII 1972

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ALPHA

To everything there is a season, and a time to every purpose under the heaven.

Ecclesiastes 3:1

FOREWORD

Another year at N, C, S. U. has come to an end. It was a year full of fun, hard work, and — for some — sorrow. For the Seniors, it was our last year; for others it was a continuation; and still for others it was a beginning. I hope this book, the PINETUM OF 1972, meets the requirements of each member of the student body, alumni, faculty and staff. I hope it depicts the true life of our School, and it will always be cherished by its owners.



JIM ARNETT Associate Editor



VIC JOHNSON Editor-in-Chief



JOANNE ERNST Business Manager

THE



GLENN OGELBY Photographer



JUDY BALDWIN Assistant Editor



JAMES GOLDSTON



ROBERT KETAY Assistant Editor

DEDICATED TO DR. T. EWALD MAKI



WHOSE CONTRIBUTIONS HAVE PLAYED A MAJOR ROLE IN SUCH EXCELLENCE AND RECOGNITION AS THE SCHOOL OF FOREST RESOURCES HAS ACHIEVED. STUDENTS AND STAFF ALIKE SALUTE YOU, DR. MAKI, AS A SCHOLAR, SCIENTIST AND FRIEND!

The 1972 PINETUM is proudly dedicated to Dr. T. Ewald Maki, Carl Alwin Schenck Professor of Forestry, a deeply loved and widely respected scientist.

Dr. Maki obtained his college degrees at the University of Minnesota, receiving his Ph.D. in the fields of Soils and Biochemistry in 1951. In this same year, after twenty years of distinguished service with the U. S. Forest Service, he joined the faculty at N. C. State University. In 1955 he was named the Carl Alwin Schenck Professor of Forestry, and in 1958 he became Head of the Department of Forestry. He served in this capacity until 1969, when he relinquished the headship in order to devote full time to research and teaching.

Many professional and honorary organizations claim Dr. Maki as a member. These include Sigma Xi, Phi Kappa Phi, Xi Sigma Pi, Alpha Zeta, and Gamma Sigma Delta. In 1970 the Society of American Foresters recognized Dr. Maki's many professional contributions by electing him to the grade of Fellow.

The South's present leadership in the establishment of new and profitable forests are in many ways the result of Dr. Maki's contributions to research and practice. His research has been especially outstanding in the areas of tree seed technology, seedling physiology, forest soils, forest fertilization, and water control in organic soils. As a recognition of his achievements and to further his knowledge in these fields, he was awarded a Fulbright Research Scholarship to the University of Helsinki, Finland for the 1965-66 cademic year.

Dr. Maki, is author of over fifty scientific publications. His capacity to bring the results of research to bear on practice is widely recognized and he is being continually called upon for advice and assistance by public and industrial organizations. The careers of many generations of undergraduate and graduate students have been enriched through contact with this outstanding scientist. His contributions have played a major role in such excellence and recognition as the School of Forest Resources has achieved. Students and staff alike salute you, Dr. Maki, as a scholar, scientist and friend.

ERIC L. ELLWOOD

Dean, School of Forest Resources, Assistant Director of Agricultural Experiment Station, and Professor of Wood and Paper Science B.S., M.S., University of Melbourne (Australia), Ph.D., Yale University





L. C. SAYLOR Assistant Dean, School of Forest Resources, and Professor of Genetics and Forestry B.S., Iowa State University; M.S., Ph.D.: North Carolina State Univer-

A YEAR OF CHANGE By Dean Eric L. Ellwood

sity

The 1971 year ushered in a period of portentous change for the School of Forest Resources. Among the highlights were major changes in the School administration, shaking down into the new School facilities, establishment of a new graduate program, the largest student enrollment ever, the restructuring of higher education in North Carolina, tightening budgets, and also this year perhaps will be known as the "year of committees" as the School participated in a campus wide comprehensive self-study of its goals, programs, and governance.

On July 1, Dr. R. J. Preston retired as dean after an illustrious 23 years at the helm of the School which reached international eminence under his leader-ship. Dean "Dick" Preston, as he will be always known, was not ready to give up his career entirely and has returned to classroom teaching at the School. From the smile on his face and the enthusiastic energy with which he goes about his assignments, it is evident that teaching was his first love. Likewise, since the Forestry Department leadership was taken up by Dr. C. B. Davey, the peregrinations of Dr. T. E. Maki in amongst his beloved swamp and forest have accelerated to his great delight, Dr. L. C. Saytor brings his considerable abilities

and conscientious concern to the administrative team in the full-time capacity as Assistant Dean of the School in which his principal activities are coordination of teaching programs and student affairs as well as general administration.

With my move to the office of dean, Dr. Irving Goldstein was appointed, department head of Wood and Paper Science after an intensive nationwide search to fill this position. Dr. A. C. Barefoot, a senior professor in that department, was appointed head of the Wood Products Section, Forest Resources Extension as of January 1, 1972.

Occupation of the new 55,000 sq. ft. Biltmore Hall just prior to the 1970 Christmas took place without any major problems and shakedown has mostly been completed. For the first time all of the major units of the School are housed in one complex, and it was my personal observation that productivity and efficiency of faculty and staff seemed to immediately rise. Although we are already stretching some of the new facilities beyond capacity, there is little doubt that the new quarters have significantly enhanced the potential of our programs.

Financial support of the School amounting to \$1, 1/3 million was approximately the same as the previous year, although because of higher operating costs in the new facility, inflation, increases in enrollment and increased difficulty in obtaining agency and industry grants, some financial stress is being felt in conducting operations at their present level. In this connection the School is particularly grateful to its supporting foundations, and industry cooperators, namely, the Pulp and Paper Foundation, the North Carolina Forestry Foundation, and many industries for their continuing support in this period of economic stringency. Of particular note was the establishment of the Elis and Signe Olsson endowed professorship in Pulp and Paper Science and Technology by Mr. Sture Olsson of the Chesapeake Corporation in honor of his immigrant parents who pioneered the Chesapeake Corporation at West Point, Virginia. This professorship is the fourth named professorship to be awarded to the School which aids in advancing our programs to even more distinguished levels.

Of special significance was a series of enactments during the year by the state legislature which directly affect the School and the University. The first of these was an eventual approximate doubling of out-of-state tuition for nonresident students and removal of the out-of-state tuition exemption for nonresident students and removal of the out-of-state tuition exemption for nonresident graduate students on assistantships.

This enactment predictably will reduce enrollment of out-of-state students who comprise approximately 30% of the upper-classmen and 75% of graduate students in the School, which incidentally is a good indication of the regional and national standing of the School's programs. It is yet too early to predict eventual losses in overall enrollment resulting from this, but its effect will be most damaging at the graduate level unless a liberal interpretation of this enactment is authorized. Fortunately exemptions from these new increases in tuition were obtained for students enrolled in recognized regional programs such as in pulp and paper science and technology. Also, stemming from the rising costs

of higher education, the formula for state support of teaching positions was changed with the result that approximately 6% less financial support for teaching positions is provided to the University for every hundred students enrolled. Perhaps more far reaching was the enactment reorganizing higher education in North Carolina. Under the new system, all 15 universities in North Carolina will be responsible to a governing board which will coordinate programs and establish budget recommendations to the state legislature. The six campus system of the University of North Carolina, of which N. C. State University was a part, will cease to exist. I am optimistic, that in the long term, the new organizational structure will be best for the School, the University and the state.

However, these points and other indications from the society at large would seem to point to the fact that the period of rapid growth of the School's professional programs, particularly over the last decade, may be drawing to a close. In the immediate years ahead our primary emphasis will be directed towards using the resources that we have as efficiently as possible, raising our programs even more in quality, and gearing our professional program priorities to the most important needs of the state, the region and the nation. Also well be looking hard at the concept of further developing programs in general forest resources education as an educational alternative for students who may have otherwise majored in liberal arts.

TEACHING PROGRAMS

Of the six curricula conducted by the school, significant increase in enrollment occurred in Forestry, Conservation, and Recreation Resources Administration which reflects, to a degree, the growth of interest in environmental involvement. Last fall the total student enrollment, including special students, reached 825 and degrees awarded during the year were foz.

ENROLLMENT FALL 1971

Curriculum	Undergraduate	M.S.	Ph. D.
Conservation	54		
Forestry	289	21	24
Nat. Res. Recreation Mgt.	27		
Pulp & Paper Science and Technology	98	8	3
Recreation & Park Administration	246	6	
Wood Science & Technology	31	2	
Special & Unclassified	_15_		
TOTAL	760	37	28
DEGREES AWARDED IN 1970-71 WERE:	: Bachelor		137
	Masters		10
	Doctorate		_15_
		TOTAL	162

Also beginning in the 1971 fall, the newly authorized masters degree program in Recreation Resources Administration was started with a first year enrollment of 6 graduate students.

During the year the students continued their extracurricular contributions to the School. Noteworthy in this area was the leadership of the Xi Sigma Pi and Rho Phi Alpha Societies in providing volunteer help during evenings and weekends to staff the new branch library housed in Biltmore Hall. In addition, a highly successful open house for high school students, conducted during the fall, owed a considerable measure of its success to the unstinting help provided from students in all departments.

Of concern to all was the tightening job opportunities for 1971 graduates as a result of the current reductions in hiring by both industry and government Although choices of jobs were limited in contrast to previous years, students graduating from the School of Forest Resources faired better than average in job location in comparison with all university programs. There is little question in my mind that the current reduction in demand for graduates is building up a backlog of unmet needs for trained people which will cause an eventual surge in demand in future years.

FACULTY AND STAFF

The number of faculty and staff positions was relatively stable over the year totalling 117 of which teaching and research faculty in the School number 47. There were, however, a number of resignations and new appointments as follows:

Dr. A. C. Barefoot transferred from the position of In Charge, Wood Science and Technology Curriculum to Head, Wood Products Section of the Forest Resources unit of the Agricultural Extension Service

- Dr. A. W. Cooper took leave of absence from the University to work with the N. C. State Department of Natural and Economic Resources.
- Mr. Ken Cordell joined the Department of Recreation Resources Administration as Instructor in the 1971 fall. He was formerly a member of the USFS and will be teaching and undertaking research in recreation resources.
- Mr. R. H. Crysdale, Research Assistant in the Department of Recreation Resources Administration, left to take a position with the Bureau of Reclamation, Department of the Interior, Denver, Colorado.
- Dr. Irving Goldstein, Professor and Department Head of Wood and Paper Science, transferred from the Texas A & M University and took up his new duties in the 1971 fall.
- Dr. Josef Gratzl, Associate Professor of Wood Chemistry, joined the School from the University of Washington. He is teaching and undertaking research in wood and pulping chemistry.
 - Mr. Leon Harkins was appointed to the Forest Resources Extension unit to conduct extension programs in recreation resources.
 - Dr. Lester Holley, Assistant Professor of Forest Economics, joined the

School from the U. S. Forest Service. His initial studies are concerned with the economics of hardwood management.

Dr. Knut Kringstad, Associate Professor of Wood Chemistry, resigned to return to Scandinavia to take a position with the Swedish Forest Products Institute

Dr. Michael Levi joined the Forest Resources Extension unit and has a 50% research appointment to undertake research in wood deterioration as well as extension work in this field.

Dr. Lewis Moncrief, Assistant Professor of Research Resources Administration, resigned to take a position with Michigan State University.

Mr. James Roberds resigned from the Cooperative Tree Improvement Program to join Dr. Namkoong's U. S. Forest Service Pioneering Unit in Quantitative Forest Genetics.

Dr. Larry Tombaugh, Assistant Professor of Recreation Resources Administration, and a member of the U. S. Forest Service Recreation Cooperative unit, resigned to join the National Science Foundation.

Mr. Andrew Weber joined the Forest Resources Extension unit to head up extension work in the field of wildlife management.

Mr. Robert J. Weir joined the Cooperative Tree Improvement Program as Liaison Geneticist.

Additional appointments of associated faculty to the School of Forest Resources made during the year were:

Mr. Richard R. Wilkinson, Department Head of Landscape Architecture, School of Design. Professor Wilkinson will work with the School in bringing the area of landscape architecture to our programs.

Dr. Arthur G. Wollum, Professor of Forest Soils, Department of Soil Science, School of Agriculture and Life Sciences. Dr. Wollum will cooperate with the Forestry Department in the area of forest soils.

Mr. Robert K. Stevens of the Environmental Pollution Agency was appointed as Adjunct Associate Professor and is working in cooperation with faculty in the Department of Wood and Paper Science on pollution abatement studies.

Several awards and recognitions were made during the year to the faculty as follows:

Dr. A. C. Barefoot was given the Second Mile Award by the N. C. Association of Educators.

Mr. Ken Cordell was elected associate member in the Rho Phi Alpha Honorary Professional Recreation and Park Administration Fraternity.

Dr. Ellis Cowling was elected as a Fellow of the International Academy of Wood Science.

Dr. Stephen Lin, Postdoctoral Fellow in Wood and Paper Science, received the 1971 George Olmsted Award for outstanding research.

Dr. T. Ewald Maki was given the Governor's Award "Forestry-Conservation." Dr. R. J. Preston was initiated into Alpha Zeta.

Drs. D. H. J. Steensen and Robert Sternloff received outstanding teacher awards for the 1971 year.

Dr. A. J. Stamm was selected as a Visiting Scientist for the Society of Wood and Paper Science.

Dr. Richard J. Thomas won third prize in electron micrograph contest at joint Forest Products Research Society and Society of Wood Science and Technology Annual Meeting for series of micrographs depicting wood anatomy. He also served as Director of the Visiting Scientist program for the Society of Wood Science and Technology.

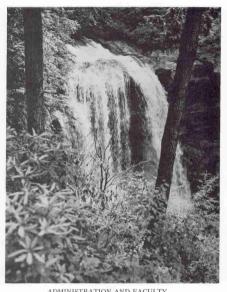
Promotions during the year included:

Dr. Larry F. Grand to Associate Professor of Forestry and Plant Pathology.

Dr. Robert C. Kellison to Assistant Professor of Forestry. Dr. Gene Namkoong to Professor of Genetics and Forestry.

Dr. Benee F. Swindell to Associate Professor of Forestry and Statistics.

Dr. Richard J. Thomas to Professor of Wood and Paper Science and Botany.



ADMINISTRATION AND FACULTY

"Education is the leading of human souls to what is best and making what is best out of them; and these two objects are always attainable together, and by the same means; the training which makes men happiest in themselves also makes them most serviceable to others."

John Ruskin



RICHARD J. PRESTON, JR. Dean Emeritus and Professor of Forest Resources A.B., M.S.F., Ph.D., University of Michigan

FOREST RESOURCES AND THE ENVIRONMENTAL CRISIS By R. J. Preston

Today we are caught up in a nationwide crusade to save our environment. We in forest resources say "thank God" for the religious-like fervor with which our populace is reacting to the crisis facing our resources. It is making some real problems for us as issues are sometimes approached more emotionally than rationally, but for many years we have been trying to bring about just such a deep concern and awareness for the need to adequately husband our limited resources. This need awareness in the beautiful words of Archibald Macleish, "To see the earth as it truly is, small and blue and beautiful in that eternal silence where it floats, is to see ourselves as riders on the earth together, brothers on that bright loveliness in the eternal cold."

It is important for us to know that all the resources we will ever have, we are now carrying with us, with one wital exception: Solar energy. Solar energy makes possible the miracle of photosynthesis by which green plants can grow and combine carbon dioxide and water into the carbohydrates that form the basis for all life. This process enables our food and forests to be classed as renewable resources: These are the only resources which we can continue to use and reuse in perpetuity if they are not abused or destroyed.

Only a few years ago this thing we call our environment was of no or little concern to most of us. When a decade ago, a gentle, far sighted author, Rachel Carson, wrote her provocative book "Silent Spring, "warning of the consequences of our destructive practices, she was ridiculed and even viciously attacked both by scientists who refused to believe what was happening and by industry who feared the effect on profits.

Today we have made a complete about face, and almost every individual industry and profession is alarmed and is thinking and talking about the crisis to our environment. Scientists and citizens alike have moved from a feeling of vague apprehension to a genuine concern about the preservation of life itself:

A concern over the quality of the air we breathe (Last year in Los Angeles I heard an announcement over TV that parents were urged to see that their children did not play strenuously that day because of the smog), the pollution of our water, the problems of noise, solid wastes, mass transportation, squalor and crime in our cities, the future of our wildlife and the beauty of our wild lands.

Yes, today we are all concerned about this threat to our environment and how it will affect us: But how grave is it? Can it be cured or arrested? Here the experts (so-called) disagree. One group that might be labeled the doomsday school just scares the dickens out of you. This group holds that the problem of environmental degradation is insoluble, that its too late to turn back man's march toward racial extinction through overpopulation, famine and disease. Others prophecy that the oceans will be dead by 1985: That changes in earth's temperature resulting from increased carbon dioxide in the air from our use of fossil fuels will melt the polar caps and flood our coastal cities: That new and sometimes exotic perils such as mercury polsoning cannot be controlled. (Its not a comforting thought that each of us is carrying DDT in our livers in measurable amounts and that the DDT already loosed on the environment may well result in extermination of eagles, and other forms of bird life). Only time can tell if these prophets of doom are correct, but as of now, we should reject this apocalyptic view, as it leads only to despair and inaction to believe we face a hopeless future.

Until recently nature was resilient enough to absorb the abuse of our environment and deterioration proceeded so slowly that we gave it little heed. Like a rubber band it could stretch itself without breaking. But then the flood of pollutants resulting from technological breakthroughs coupled with an ever increasing population with more funds available to satisfy their needs broke the flood gates.

On the positive side we are aroused as a nation and demanding changes in industry and government. We are saying to our government that we must stop destroying our lakes and rivers, that we demand clean air to breathe, that we want beauty preserved, and more importantly, we are saying we know it is going to cost money through increased taxes and higher prices but we are willing to pay what is necessary. The cost will be high! Recent rough estimates show \$\$54 billion for water pollution, \$\$3.1 billion for air pollution and more than \$\$4.2 billion for solid waste disposal. But the savings can be even higher, the commissioner of the national air pollution administration states that air pollution costs every American \$\$65 per year, and that clear air can save the United States \$\$13.5 billion per year for a total expenditure of \$\$3.1 billion. Would that all such environmental control measures could show such a return.

With this summary of the environmental crisis, I will now raise the question "What has this to do with the future of our forest resources?" The answer is: "Everything." It explains why intelligent, well-meaning laymen react impulsively and emotionally to all issues affecting natural resources. It does indeed put the professional conservationist and ecologist on the defensive and forces them to re-examine their policies and positions. I submit to you that foresters

were the leaders of our conservation movement and that today professional foresters comprise the major supply of our nation's trained ecologists.

Forests cover about two-thirds of the land area of North Carolina and about one-third of all the land area of earth itself. What happens on this vast portion of our land area will have major significance to our future.

Most foresters, timber-using industries and laymen now accept the fact that forest land management must be heavily geared to environmental protection and to consideration of uses of the forest other than the production of wood or fiber. This will result in many areas of conflicting interests, and these will have to be resolved by reason and research—not by emotionalism or fabrication. I have no doubts that the public will judge wisely once they have the facts and that they will deal hashly with any group attempting to deceive them.

For many apparently conflicting demands the solutions may be surprisingly simple. Any of you who have visited the heavily used forests of Europe know that intensive utilization, recreation, wildlife, water and esthetics have been molded into a harmonious whole with no serious sacrifices to any use. On most of our forest lands it will not be hard for us to do as well, now that the economy and the public will support intensive use.

One final statement. Foresters have been managing the environment successfully for centuries in Europe and their overall record in this century in our country is most commendable. Like everyone else, their decisions need to be challenged, and we live in a period where citizens can and do challenge what they question as they never could before. My plea is that technical management decisions should be made by professionals. Policy makers need professional judgments, and professional sneed adequate research data on which to base these judgments. There is no professional group more dedicated to true conservation and to working toward the goal of the greatest good to the greatest number than foresters, and if we will provide them with essential research information we can trust their integrity and professional judgments.

The future for forestry is indeed assured. The need of our nation for the products and services provided by this vast acreage of renewable resource will require that it be used wisely.

Our present need is to provide the people with the information they need to make decisions based not on emotionalism but on facts and rational understanding.



THE PINETUM RECOGNIZES
Professor Chester G. Landes

Chester Grey Landes, Associate Professor of Pulp and Paper Technology, is retiring this year after twelve years of dedicated service to the School of Forest Resources. First appointed as assistant professor in 1960 after a distinguished career in industry he was promoted to associate professor in 1968.

Professor Landes was born in Lowell, Indiana in 1903 and was educated in chemical engineering at Ohio State University. His industrial career spanned 34 years with Mead Corporation, Fitchburg Paper Company, American Qyanamid Company, and Wica Chemicals, Inc. For the major portion of this period he was Head of the Paper Chemicals Laboratory at American Cyanamid, where he pioneered in the development of wet strength papers. His creativity and productivity are demonstrated by approximately 40 publications and patents bearing his name.

During his association with North Carolina State University Professor Landes has brought strength to the pulp and paper program in the field of additives and coatings. His enthusiastic teaching and interest in students as individuals have been appreciated by generations of students.

In addition he has set an example of professionalism for young people just beginning their careers. His memberships include the American Chemical Society of Technical Association of the Pulp and Paper Industry, American Association of Textile Chemists and Colorists, Technical Association of the Graphic Arts, Paper Industry Management Association, Packaging Institute, and Phi Lambda Upsilon, an honorary chemical society.

With more vigor than men many years younger, Professor Landes will undoubtedly continue his professional activities for years to come.



L. WAYNE HAINES Director, North Carolina State Forest Fertilization Cooperative

FORESTS AND FORESTERS — RENEWABLE RESOURCES By L. Wayne Haines

Who wants to be a forester, when according to their critics, they are responsible for the exploitation of forests, soil erosion, water pollution, and destruction of wildlife. They have been seen burning the woods and applying herbicides and insecticides to the countryside, as well as building roads into "natural" reacs. Some people even feel that foresters should have to wear black hats because they believe in cutting trees, grumble about land taxes, and post land for personal benefit.

The affluent public has more time for recreation today than ever before and is critical of any activity that interferes with camping, liking, hunting, or fishing. Many people are interested in environmental quality and take to heart what they read or hear on the subject. They relate what they know about energy flow and the balance of nature with what they encounter in the woods and so they criticize foresters and many forestry activities.

These critics generally are not aware that if it had not been for foresters such as Pinchot, Graves, Schenck, and their followers, there could be no disagreement over forest management today -- there wouldn't be any forests to argue about! When these men started preaching and practicing forest management in the early 1900's, "progress" was the clearing of land, not conservation practices that kept trees there. Agronomic enterprises were considered more respectable and profitable. It was argued that trees took too long to grow and, anyway, wood was being replaced as an important raw material. Moreover, most timbermen considered forest management impractical and fought such ideas as selective cutting, restricted out, and efforts to improve utilization.

It is now history that those critics were wrong. Vast acreages, once cleared, are again supporting forests. Although the scars of erosion and poor soil husbandry are frequently still visible, trees are protecting and rehabilitating the soil. Land that was sold for taxes during the 1930's and early '40's is now valuable because of its forests. These are the forests that foresters are control burning, thinning, clearcutting, and regenerating to provide raw materials

needed by industry. The forest industry in turn provided jobs, pays taxes, and creates the need for other industries and professions. Paradoxically, it is often the people directly or indirectly financially dependent upon the forest who are most critical of foresters. Yet, the forester can provide much of what the public wants - financial, physical, and mental well-being.

Our woodlands are not producing anywhere near their capacity, but with intensive management and proper priorities, they could (within population limits) yield for any materials, recreation, and clean water needed. Foresters and their associates, the recreation and wildlife managers, now also have the capability to help solve other problems such as the recycling of organic wastes generated by concentrations of people and animals. This capability did not develop over-night; it is the result of experience and research. Each generated of forest resource managers is better educated and more capable than its predecessor. Today's foresters are practitioners who utilize science and modern technology to achieve specific goals.

Who are foresters? They are people that believe forests and forest products of concessities of civilization; that man must have paper for books and wood for implement handles, as well as space and solitude for peace of mind and well-being. They are willing to accept the challenge of infinitely perpetuating bountiful forests, fertile soils, and clean water. They have the patience to watch brush grow into forests and the forestight to know that someday the forest will again begin with brush.

After a day in the field the forester may be weary, but he has the good feeling of having done something worthwhile. The day may have been spent crusting, checking reforestation or viewing a cutting operation, but he is more likely to remember the sunset or the turkey's gobble than his torn jacket or leaky boot. He goes to bed knowing that there will be a tomorrow and work to do to provide for future tomorrows.

While there are foresters, there will be forests. Both are renewable!

LARRY G. JERVIS, School Forest Manager B.S., North Carolina State University





W. M. KELLER In-Charge, Extension Forest Resources Department

EXTENSION DEPARTMENT

By Walter M. Keller

During the past year we had a slight change in the name of our Department For years we had been known as the Extension Forestry Department, but to keep pace with the name change of our School, we are now the Extension Forest Resources Department. We still, however, have a Forestry Section and a Wood Product's Section within the Department.

Being a part of the Agricultural Extension Service, we participate in their loop-grange planning programs, and this past year we have been busy working on our next (third) long-range program. This program was officially announced in January 1962 by Governor Scott, and carries the name "Impact 76." This program spells out well-defined numerical and activity goals for the Department, one of which calls for raising the farm forest income to 120 million dollars a year in the State. It will take an all-out effort by every member of the Department if we are to reach all of the goals we have set.

For the past four years we have been below strength, and it has seemed that I have spent all of my time recruiting personnel. On January I, 1971, however, we had every vacancy filled and were at full strength for the first time in a good many years. We have added three new men to our group since last year's report. Andy Weber was the first of the three to join us. Andy is a native of New Jersey and a graduate of N. C. State's Wildlife Department. He spent eleven years with N. C. Wildlife Resources Commission, and at the time he left them he headed up their research program. He returned to State and got a Master's degree in Forestry, and joined us upon completion of his graduate program. He will provide leadership to our program in forest wildlife management.

On July 1, 1971, Dr. Mike Levi joined our staff replacing "Dixie" Hobbs who had retired. Mike is a native of Leeds, England, and obtained his Ph.D. from the University of Leeds. He had married a girl from Shelby, and thus we were able to induce him to come to North Carolina. Mike is a pathologist, and will

head up our work in the wood preservation field. His energy and enthusiasm have already won for him a valued place in our group.

Since Bill Keppler's unexpected death in Zurich, Switzerland, in July, 1970, we had been looking long and hard for someone to fill his very big shoes a leader of our Wood Products Section. Our long wait was worthwhile when we had the great good fortune to attract Dr. A. C. Barefoot into our group. Most of you N. C. State graduates know A. C. quite well and are aware of his great contributions to both the teaching and research programs of the School of Forest Resources. We are looking forward to having A. C. with us, and to building an even stronger working relationship with our wood industries under his leadership.

MRS. SHARON SANDERFORD





MRS. INEZ TUCKER Secretary Extension Forest Management Section

MRS. JULIANNE BASS Secretary Tree Improvement





A. G. WOLLUM, II Associate Professor, Soil Science and Forestry B.S., Minnesota; Ph.D., Oregon State University

MRS. ADRIANA KIRKMAN Research Technician Wood and Paper Science





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

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



R. J. WEIR





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

JERRY SPRAGUE Research Assistant

R. G. HITCHINGS





In-Charge — Pulp and Paper Curriculum, Professor of Pulp and Paper Technology
B.S., State University of New York,
College of Forestry; M.F., Duke
University



RONALD G. PEARSON Associate Professor of Wood Engineering B.C.E., B.A., M.Eng., University of Melbourne, Australia

CHARLES N. ROGERS Associate Professor of Pulp and Paper Engineering B.S., North Carolina State University



ALFRED J. STAMM Reuben B. Robertson Professor Emeritus of Wood and Paper Science B.S., California Institute of Technology; M.S., Ph.D., University of Wisconsin

VIVIAN T. STANNETT
Camille Dreyfus Professor of Chemical Engineering, and Professor of Wood and Paper Science
B.S., London Polytechnic Institute;
Ph.D., Polytechnic Institute of Brooklyn



M. ROGER WARREN, JR.
Assistant Professor of Recreation
Resources Administration
B.S., Wake Forest University; M.S.,
West Virginia University; DR. of
Recreation, Indiana University



THE RECREATION PROFESSIONAL'S ENVIRONMENTAL RESPONSIBILITY

By Roger Warren

At this time when so much is being written about the environmental crisis in America, it seems appropriate to reflect on the park and recreation professional's role. William E. Brown, writing in ISLANDS OF HOPE, suggests an answer to the question saying, "We of this profession must use our talents and resources to help our publics and communities rejoin the natural world."

Unless man begins to realize he is a part of and must live in harmony with our natural world, there is little hope for environmental reform. There is a real danger as people's lives become more and more "machine centered," and as we continue to live in a world of steel, plastics, and concrete, that this artificial environment will become our "real" world. The danger to man is that under these conditions he must become colder and weaker and more incapable of any kind of warmth. This is a fundamental danger we face in an era dominated by science and technology. The park and recreation profession is in a unique position having the potential to bring man back to view the natural environment in wholesome prospective. This must be accomplished if man is to retain his humane qualities.

How can the park and recreation professional help attain the goal of developing understanding of and appreciation for the natural world? Three avenues of approach are suggested.

First, he must act in the role of a preserver. The park and recreation professional and the agencies he represents have under their jurisdiction some of the most valuable natural resources in America. The professional must act to preserve these resources from encroachments of all kinds. In addition, he must seek to add open space to fill inadequacies in his community or region and to insure parkland for the future.

He must act as a preserver of natural beauty in those areas he now controls

and acquire land necessary to preserve those areas which are collectively perceived as beautiful for present and future generations. The aesthetic values of park and recreation areas cannot be minimized. Developing areas where people observe beauty in a spirit of contemplation may indeed be one of the highest forms of recreation. Beauty is inherent in a healthy and functioning environment where people can breathe clean air and swim or fish in clean lakes or streams. Beauty is also inherent where urban populations can enjoy greenery and open space. Implicit in the charge to the professional to preserve natural beauty is the necessity of making this beauty available and accessible to people as long as providing access does not destroy the resources. Management techniques must be developed to realize these goals more fully.

In addition, the professional's role in preservation of the natural environment extends to protection when areas for intensive recreation use are developed Picnic areas, campgrounds, athletic fields, and any other facilities which because of poor design and construction destroy the environment are a disgrace to the profession. Preservation of the environment must be considered in the planning process and facilities must be planned and constructed to blend with rather than intrude upon the natural landscape.

The second major contribution is to extend and expand opportunities for contact with the natural environment. This implies providing facilities and programs which will develop an appreciation for and a responsibility to the natural world by the user. If a wholesome land ethic is to be developed in America, it must emerge from broad segments of the population not isolated conservation minded groups. This land ethic can be developed and only will be developed when large numbers of people experience the values which are inherent in the perception which can come from an association with the natural environment. The park and recreation professional can help provide these experiences through good programming. In some instances this can take the form of providing well planned, developed, and operated facilities where the park user can gain the outdoor experience on his own. Well established hiking, bridle, and bike trails are examples. He should also consider more formal program opportunities through, for example, a variety of interpretive and outdoor education programs. Interpretive programs must be more than the decimination of factual information about the natural environment. They must be dynamic programs which motivate, challenge, and provocate the individual to want to learn more about the environment in which he lives. Such a program should further serve as a catalyst to develop individual and community action programs of environmental reform. Such programs have the potential of being the finest public relations program any park and recreation agency could conceive.

The third major contribution of the park and recreation professional should come in helping to create environmental beauty and opportunities for contact with environmental and natural beauty where none now exist. Unfortunately in many urban areas very little, if any, natural beauty remains. Formal gardens, attractive parklands, well landscaped and maintained roads and streets, and aesthetically designed play areas provide an opportunity to increase the quality

of everyday living for broad segments of the urban population. We must also provide opportunities for the urban dweller to experience the natural environment. Efforts to provide these kinds of programs have been weak and largely ineffective. The park and recreation professional is in a good position to support and actively work to initiate creative programs which bring about meaningful interactions with the environment.

This article does not mean to suggest that the recreation professional can and should solve all of our environmental problems; however, it is felt that these are major areas where the recreator can and should make a positive contribution.



HAROLD K. CORDELL Instructor, Recreation Resources Administration B.S., M.F., North Carolina State University

HOU-MIN CHANG Assistant Professor of Wood Chemistry B.S., National Taiwan University; M.S., Ph.D., University of Washington

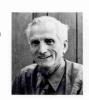


ROY M. CARTER Professor of Wood Technology B.S.F., University of Minnesota; M.S., Michigan State University



A. G. MULLIN Instructor, Wood and Paper Science and Forestry B.S.C.E., M.F., Duke University

F. E. WHITFIELD Forest Protection Specialist





MRS. JUDY WILLIAMS
Secretary
Extension Forest Resources Department

MRS. MARLA WESTMORELAND Receptionist, School



IRVING S. GOLDSTEIN Head of Department and Professor of Wood and Paper Science B.S., Rensselaer Polytechnic Institute; M.S., Illinois Institute of Technology; Ph.D. Harvard University



J. S. GRATZL Associate Professor of Wood Chemistry Ph.D., University of Vienna, Austria

MICHAEL P. LEVI Associate Professor of Wood and Paper Science and Plant Pathology; and Extension Forest Resources Wood Protection Specialist B.S., Ph.D., Leeds University, England





A. J. WEBER Wildlife Specialist



A. C. BAREFOOT Leader Extension Wood Products Section

MISS ANGELINE BRANTLEY Secretary Wood Products Extension





EARL L. DEAL Harvesting Specialist

ROSS S. DOUGLASS Soils, Nutrition, Forestation Specialist



S. J. HANOVER Secondary Manufacturing Specialist





LEON H. HARKINS Outdoor Recreation Specialist

J. S. HEDGECOCK Economics & Utilization Specialist





W. T. HUXSTER Leader, Extension Forest Management Section



E. M. JONES Hardwood Management Specialist

DONALD H. J. STEENSEN Assistant Professor of Forestry and Wood and Paper Science B.S., Iowa State University; M.F., Ph.D., Duke University





THOMAS V. GEMMER Instructor of Wood and Paper Science and Forestry B.S., M.S., Purdue University

RALPH C. BRYANT Professor of Forest Management B.S., M.F., Yale University; Ph.D., Duke University



W. T. McKEAN Associate Professor of Pulp and Paper Chemistry B.S., University of Colorado; Ph.D., University of Washington



POLLUTION ABATEMENT IN WOOD AND PAPER SCIENCE By W. T. McKean

The Southern United States has assumed an increasing importance in production of wood raw material for chemical pulping. At the same time the pulp industry faces an increasing number of environmental problems as population density increases and as available water and air resources diminish. In response to these problems, studies are being made in the Department of Wood and Paper Science to develop improved methods for control of effluents from pulping and papermaking processes.

A process currently being studied represents an example of this approach, it is well known that the typical odor associated with kraft pulping is caused primarily by a mixture of hydrogen sulfide, methyl mercaptan, dimethyl sulfide and dimethyl disulfide. Pulp mills have learned to minimize the emission of these substances by carefully controlling the processes so only a few pounds of sulfur are emitted per ton of pulp produced. Nevertheless, this amount can cause an air pollution problem because these compounds are detected by the human nose even at dilutions to a few parts per million in air. Consequently, studies are being made to destroy the odorous compounds by oxidation in the diesestre before any can be released to the atmosphere.

The work has demonstrated that injection of oxygen into the kraft digester during the last few minutes of pulping will cause oxidation of the sulfur compounds to non odorous substances, which remain in the pulping liquor. Thus, the gases which escape when the digester is opened do not smell at all like typical kraft mills. Furthermore, injection near the end of the cook does not cause any measurable loss in pulp yield or in physical strength properties. This system of odor control provides a modification which could make a kraft mill nearly odor free. Studies are being continued to improve the oxidation efficiency so the cost can be minimized.

The management of the forest resources will in the future involve a more intensive consideration of raw material utilization. Efforts at pollution abatement can contribute to improved utilization by retaining and recycling the waste products within processes or by converting the waste to useful products. In this way more of the raw material is utilized for the needs of society.



JOHN W. DUFFIELD Professor of Silviculture B.S., Cornell University; M.F., Harvard University; Ph.D. University of California, Berkeley

THOMAS O. PERRY Professor of Forest Genetics B.S., M.A., Ph.D., Harvard University



PHOTOGRAPH NOT AVAILABLE

GENE NAMKOONG Associate Professor of Genetics and Forestry B.S., M.S., State University of New York; Ph.D., North Carolina State University

WILLIAM L. HAFLEY Associate Professor of Forestry Biometry B.S., Pennsylvania State University; M.F., Ph.D., North Carolina State University



J. O. LAMMI Professor of Forest Economics B.S., M.S., Oregon State University; Ph.D., University of California, Berkeley





LARRY F. GRAND Associate Professor of Plant Pathology and Forestry B.S., M.S., Pennsylvania State University; Ph.D., Washington State University

M. H. FARRIER Research Professor of Entomology and Forestry B.S., M.S., Iowa State College; Ph.D., University of Wisconsin





J. H. HARDIN Professor of Botany and Forestry B.S., Florida Southern College; M.S., University of Tennessee; Ph.D., University of Michigan



BRUCE J. ZOBEL Director, Cooperative Programs and Edwin F. Conger Distinguished Professor of Forest Genetics

MODERN FORESTRY PRACTICES—TREE IMPROVEMENT By Bruce Zobel*

About 20 years ago practicing foresters began to search for, and use, methods that would increase yields and quality of products from their woodlands. This has resulted in the application of intensive and improved management practices such as site preparation, more complete harvesting and fuller utilization of what was formerly considered waste. Included among the management practices was use of better genetic stock; the combined effort of better management and better plants is often referred to as "Tree Improvement".

Tree improvement has developed from very modest early efforts to the point where it is now an accepted and integral part of forest operations in the South. Several hundred million genetically improved trees are planted annually, and in less than 10 years essentially all tree planting will be from seed orchard seed. In 1971 a number of industries produced enough genetically improved seed for all their regeneration programs and the states will soon have a large supply of improved stock available for public sale. One member of the North Carolina State University-Industry Cooperative has already planted over 27,000 acres from seed orchard seed and will double that acreace in 1972.

What has tree improvement contributed, what gains have been obtained, what is its future? For years, answers to these questions were theory, potential, and hope, but little more! It is fairly well documented now that yield increases over standard planting stock will be from 10 to 20 percent and quality improvement even greater. The most impressive responses to using better parents has been in straightness of tree bole, in wood qualities and in disease resistance. Of prime importance, as forest lands become less available and ecological pressures on use of forest lands increase, is better adaptability of the planted trees to marginal sites. Special strains of pine have now been developed for extra wet sites, put sites, poor sites and for drought- and cold-hardiness. Work is underway to pro-

^{*}Professor, Forest Genetics, and Director, Cooperative Programs, School of Forest Resources

duce pine trees that will have suitable growth on soils with high pH and where fume damage from pollution has become serious.

To enable wood to better compete as a naw material, trees have been bred with wood properties especially good for newsprint or for writing papers, for tissues, or for paper bags; each of the 85 seed orchards of the 26 members of the Cooperative at N. C. State has a "formula" for desired wood. Considerable emphasis has also been on wood most suitable for lumber or plywood.

But despite the gains available from the nearly 3,000 acres of seed orchards now established (it costs about \$5,000 to establish an acre of seed orchard), the job has just begun. Selections for advanced-generation seed orchards are now being made; when these are in production, gains are expected to be double those from the current orchards. To take advantage of known "super trees", of which a number have been located, specially orchards have been established to overcome some particular problem such as in areas of high fusiform rust infection. In order to avoid a serious narrowing of the genetic base which could lead to real troubles in the future because of mating between related individuals, large research orchards with wide genetic base which could lead to real trees for future generation seed orchards will be taken.

The tree improvement effort is economically sound, as well as having produced large "biological" gains. Studies have shown that one of the very best returns a corporation can make on dollars invested is through tree improvement. That is good news indeed for members of the N. C. Cooperative who own or control over 20 million acres and who are faced with producing more timber quicker on less land in the 13 states in which they operate. They have incorporated tree improvement as an integral part of modern forestry practice to accomplish their goal of supplying increasing amounts of timber quickly and at a reasonable cost.

W. M. STANTON 4-H, Urban Forestry, Outdoor Recreation Specialist





J. S. BARKALOW, JR. Professor of Zoology and Forestry B.S., Georgia Institute of Technology; M.S., Ph.D., University of Michigan

A. W. COOPER
Professor of Botany and Forestry
B.A., M.A., Colgate University;
Ph.D., University of Michigan

PHOTOGRAPH NOT : AVAILABLE



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D. LESTER HOLLEY, JR.
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B.S., North Carolina State University; M.A., University of North Carolina at Chapel Hill

MRS. ROSE LEE Secretary Recreation Resources Administration





L. L. MILLER Associate Professor of Recreation Administration B.S., Wake Forest University; M.A., University of North Carolina, Chapel Hill



MRS. LINDA SERINO Secretary Recreation Resources Administration

MRS. NORMA BERGERON Secretary Cooperative Programs





MISS SUSAN BIGBEE Secretary Cooperative Programs

MRS. LANORA GOSS Lab Technician



WILLIAM E. SMITH

Professor of Recreation Resources Administration

B.S., Western Carolina University; M.A., UNC-Chapel Hill; Ed. D., George Peabody College





RICHARD J. THOMAS
Professor of Wood Science and
Technology and Botany
B.S., Pennsylvania State University;
N.W.T., North Carolina State University; D.F., Duke University

ROBERT C. GILMORE

Assistant Professor of Wood and Paper Science; Superintendent of Wood Products Laboratory B.S., Pennsylvania State University; M.S., North Carolina State University





RAY SMITH Executive Secretary of the Pulp and Paper Foundation B.S., North Carolina State University

COMPUTERIZED ROUGH MILL PROJECT

In March of 1971 A. G. Mullin and A. J. Barr, two members of the School of Forest Resources Faculty, received an \$84,000 grant from the National Association of Furniture Manufacturers. This grant was for the design and fabrication of a "Computerized Rough Mill System". The purpose of the system is to improve the yield of usable dimension stock from hardwood lumber. Previous research at the School of Forest Resources indicates that approximately 10% of the cost of lumber can be saved by using such a system. The savings will come from better utilization of the lumber, and because the manufacturer could cut lower grades of lumber without seriously reducing production. Translated into dollars, it is estimated that the system will save the furniture industry millions of dollars annually.

The computerized rough-end incorporates the following: (1) lumber defects are markedwith reflective paint and are subsequently located using a computer driven optical scanner developed under this grant; (2) the location of defects is fed into a mini computer programmed to determine the "best" way to cut up the board for the company's dimension stock requirements; and (3) the computer then drives a coding device that marks each board for cutting. That is, the device physically marks on the board where it should be cut.

The system is designed for use in existing rough mills. The boards, coded for cutting will be cut manually. However, the system could be modified to drive automated saws.

Work on the prototype is progressing smoothly and we plan to display the system at the Woodworking Equipment Show in Louisville, Kentucky, next Sentember.



MRS. ALICE HATCHER Computer Programmer

BENEE F. SWINDEL Associate Professor of (USFS) Forestry and Experimental Statistics, B.S.F., M.S., University of Georgia; Ph.D., North Carolina State Univer-





sity.

MRS. MARTHA HOLLAND Secretary Cooperative Programs

MRS. ELIZABETH WILSON Lab Technician Wood and Paper Science





J. B. JETT Liaison Geneticist



W. R. (MAC) McLAURIN Research Assistant Wood and Paper Science

R. C. KELLISON Associate Director, Cooperative Programs, Assistant Professor of Forestry





EVERETT MORGAN Maintenance Superintendant Wood Products Lab

MRS. MARGARET BURCHETTE Bookkeeping, Dean (Social Director of Coffee Breaks)



MISS M. CAROL HURST Secretary Wood and Paper Science





MRS. ANN ZALAL Secretary, Forestry

MRS. DELORES WATKINS Secretary Pulp and Paper Science and Technology





MISS NANCY ROBERTS Secretary, Dean



MRS. ALICE SHIRLEY Secretary Wood Science and Technology

MRS. FRANCES LILES Assistant Director of Student Affairs (BOSS)





MISS THELMA KING Duplicating Machine Operator School

ELLIS B. COWLING

Professor of Plant Pathology and Forestry

B.S., M.S., State University of New York, College of Forestry; Ph.D., University of Wisconsin



MRS. VALDA SCHMITT Lab Technician, Forestry



MRS. ADDIE BYRD, VERNON JOHNSON, MRS. MARTHA MATTHIAS EDDIE RICHARDSON, MRS. EDITH JONES

Research Technicians





MRS. MYRTLE SANFORD Librarian Biltmore Library



MRS. LOIS BORDNER Librarian Biltmore Library

EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT THE LIBRARY . . . BUT WERE AFRAID TO ASK

By Mrs. Sanford and Ms. Bordner

A yellowed and moldering sign whispers in outrageously large letters SILENCE! Behind the desk is the librarian – a hostile woman wearing white ankle socks and crepe soled wedgies. The room is dismal and slightly sinister. Obviously, you are not in the Biltmore Library. Biltmore is brand new, and the staff is interested in assisting you to make fullest use of the many services it offers.

Biltmore library was named after the Biltmore Forest School, the first forestry school in the new world established in Biltmore, North Carolina in 1898. Biltmore Library is a specialized branch of the D. H. Hill Library, and as such, it has functioned as a liasion between Hill Library and the school of Forest Resources represented by the library committee headed by Prof. J. W. Duffield.

Originally, the library, planned ten years ago, was to serve all of South Campus and to occupy the entire top floor of Biltmore Hall. However, in the past ten years the number of people needing space in Biltmore Hall has increased, and the amount of money to meet their needs has decreased.

The library room is, however, beautifully furnished. The paneling is walnut with contrasting strips and the furnishings are a practical but tasteful blend of numerous woods. Some of the furnishings were provided by alumni of the school of Forest Resources. Those items needed specifically for the library, such as the card catalogue, were provided by the D. H. Hill Library. Perhaps the most interesting feature of the library furnishings is a painting entitled "Pines at Placerville" done by N. T. Mirov, the author of THE GENUS PINUS. The

painting depicts some of the first hybrid trees made at the Institute of Forest Genetics in 1927. These trees were perhaps the first example in pines of the use of hybridization to combine the desirable properties of two species, knobcone pine and Monterey pine. Dr. Mirov exercised artistic license by painting the trees somewhat more garded and grotesque than they appear in reality.

The library opened in January of 1971 and can accommodate 50 patrons. At present the Biltmore Library serves the departments of Forestry, Forestry Extension, Tree Improvement Co-operative, Wood and Paper Science, and Recreation. The collection includes over 700 bound volumes and over 500 unbound volumes. The library also holds more than 60 different current periodicals. The periodical collection is unusually large because of the generosity of the Forest Resources faculty. Half of the magazines held in Biltmore Library are donated personal copies from faculty members. A special feature of the Forest Resources Library is the Vertical File — 80 drawers of pamphlets published by the U. S. Department of Agriculture, U. S. Forest Service Experiment Stations, and numerous other sources throughout the country and the world.

The library is opened during weekdays and on many nights depending on the needs of the patrons. During the day the library is staffed by a full time person, Mrs. Myrt Sanford, by Mrs. Lois Bordner, a half time employee, and Miss Hildred Shelton, a librarian from D. H. Hill Library. In addition, three student workers are employed. However, at night the library is open thanks to the efforts of unpaid volunteers who are members of the honorary fraternities, Rho Phi Alpha and Xi Sigma Pi.

In the year since its opening, use of the library has steadily increased. Now over 1,000 people per month make use of the resources and services available in Biltmore Library. The collection is growing rapidly, too. Hopefully, new shelving will appear to accommodate the growing volume of books and periodicals. Perhaps, even the physical size of the room will be enlarged. It would be feasible to push the north wall out as far as the concrete pillars on the roof, thus greatly increasing the floor space of the room. That plus a glassed office for the staff would make a large and quiet area for the comfort and convenience of the number of patrons.

Why don't you get acquainted with the Biltmore Library? The room is bright; the view is great; and there isn't a crepe soled wedgie in sight. Make known your interests and needs. We may not be able to meet them all within our budgetary limitations, but we will try, and we can receive some ideas for future plans. We look forward to meeting you and working with you.

The Forestry Club recently came into possession of an Atkins 550 cross-cut saw which was owned by Mr. George K. Slocum, Professor Forestry, until his death in 1959. In view of Professor Slocum's many contributions to the School and his unselfish concern for the welfare of his students, the Club has memorialized this saw in his memory.

The saw has been mounted in the Biltmore Library, and we believe that it makes a handsome addition to the decor of the Library.

DISTINGUISHED SERVICE AWARDS





This year the editor of THE PINETUM felt that some means of recognizing outstanding service to the students by faculty, staff, or administration should be established. The basis for selection is simply SERVICE. Therefore, the PINETUM DISTINGUISHED SERVICE AWARD is hereby established.

The first recipients of the award are Mrs. Myrtle Sanford and Mrs. Lois Bordner. Both are librarians in the Biltmore Library. Both have dedicated their working hours to making the library more convenient, better equipped, and more conducive to studying for the students. Both have put students first and "wedgie" shoes last. For that, we the students say thank you.



SENIORS

"It is for us to pray, not for tasks equal to our powers, but for powers equal to our tasks, to go forward with a great desire forever beating at the door of our hearts as we travel towards our distant goal."

Helen Keller

SENIORS - CONSERVATION



CLYDE EUGENE CHESNEY



JOSEPH MICHAEL CREECH



GORDON LEE HAMMON



JOHN WILLIAM JOHNSTON, JR.



KAREN PENNY PEACOCK Student Senate; Forestry Council



JEFFERY DIFF RITCHIE



HENRY FRANKLIN STACK

SENIORS - FORESTRY



RONALD WAYNE ALLEY



SAM LOVELACE AMERSON

Xi Sigma Pi - 3,4; Forestry Club - 2,3,4 (Vice-President, 4)

King of the fox hunters. Rumor is that the "Head" tallied droppings in 406. "Magnanimous" is also the undisputed champion term paper man.



WILLIAM OVERTON BOYKIN Alpha Gamma Rho, 2,3,4



BOBBY RAY BURGESS Xi Sigma Pi - 3,4; SAF - 4



NEIL RAYMOND BURTON



LYNN ALDEN CARTER



ROBERT VANN CARTER, JR. Xi Sigma Pi - 4; Forestry Club - 3; Elections Board -4; SAF - 4



JIMMY CLYDE CHISHOLM Xi Sigma Pi; Gamma Sigma Delta



BURWELL EDWARD CLARK, JR. Xi Sigma Pi



GERALD EMLISS COGGINS
Forestry Club-1,2,3,4 (Sgt.-at-Arms, Pulpwood Chairman); Woodmen's Team - 1,2,3,4 (Captain -4)
The "Wheel" has to be forestry's most renown, uh, man about town.



CAREY MERTON COPELAND

Forestry Club - 2; American Society of Photogrammetry - 2

It is said that Carey is heck on wheels, four and six alike.



MICHAEL THOMAS COUGHLIN



STEPHEN LEE COX Forestry Club - 3,4



DRISS KAMILI DRISSI

Xi Sigma Pi - 4; Vice-Pres., International Student Board - 4



JAMES VERNON GOEBEL

Xi Sigma Pi - 3,4 (Forester - 4); Forestry Club - 3,4 (Treasurer - 4); Forestry Council - 3,4 (Vice-Pres. 3); United Campus Christian Fellowship - 3,4 (Pres. 4); SAF - 4; Phi Kappa Phi

Jim has been selected as the recipient of the 1972 Ralph C. Bryant "Gungho" award.



STEPHEN CARLYLE GREENE

Forestry Club - 2; Intramurals - 2



RAI PH EVERETT HAGGAS



ROBERT CALVIN HARDEE Forestry Club - 2,3,4 He's got the wedding bell blues.



CLAUDE B. HAYNES, JR.

"Cochise" is the man who spends half of his time in canals and the rest guarding the woods against "True Blues".



JAMES STEPHEN HOARD

Xi Sigma Pi - 3,4; Marching Band - 1,2,3,4; Brasschoir Band - 1,2,3,4; Phi Kappa Phi; Mu Beta Psi - 2,3,4 (V.P. - 4); Trumpet Guild - 1,2,3,4

Steve could conquer anything at the Hill on the Honda Trail "50", except the hills.



HENRY MUNROE HORSON

Tennis - 1,2,3,4; Squash - 1,2,3,4; Outing Club - 4; Dorm House Council - 3

Upon trying to close a verticle traverse it was found to be 300 ft. off – could it be that Henry doesn't know up from down?



PHILLIP EUGENE HOLDER

Forestry Club; Baptist Student Union; SAF - 4



CHARLES M. KENERLEY

Judicial Board - 2,3,4; Attorney General - 4; Phi Kappa Phi - 3,4; SAF - 4; Liaison Comm. - 4; Campus Disruption Comm. - 3,4; Judicial Reform Commission - 4

Does he have the wedding bell blues, too?



JAMES KEITH McCOLLUM

Forestry Club - 2,3,4; SAF - 4; Leopold Wildlife Club - 1,2,3,4 (Pres. - 4); Agri-Life Council - 4



MICHAEL W. McINTIRE



MONROE UNDERWOOD MARLOWE, JR. Xi Sigma Pi - 4; Forestry Club - 3,4; SAF - 4



JAMES WILLIAM MATHEWS, JR. House Council - 2,3,4; Floor Assistant - 3; Dorm Football - 2,3,4; Forestry Club - 3,4; SAF - 4; Area Judicial Board - 4 "Tuck" – Pride of Kentucky



WILLIAM EARL OVERTON
Treasurer Married Student Board - 4
Wedding bells have already rung!



WILLIAM WARREN PERRY

Forestry Club - 3,4

"Whatta ya say ole boyyyy", fondly known as super "pumper."



THOMAS MARK PITCHELL

All Campus Board - 3,4; Residence Hall Staff - 3,4



HENDAL McCREE PRICE

Forestry Club; Forestry Council; SAF

It is rumored that Hendal is Rip Van Winkle's grandfather.



CHRISTOPHER C. RABLEY

Forestry Club - 4; Intramural Basketball - 2,3,4; Horseshoes - 1,2; Football - 1,2,3

Chris is the original "Golden Bear". He hunts a lot, but it is rumored he can't hit a bushel basket when thrown in the air.



PAUL FRANCIS REVELL

Residence Assistant - Bragaw Dorm; Co-Chairman -Social Action Board; Campus Co-ordinator - Big Borther Program; SAF

Paul is the original "Bummer." If there is an ink pen or cigarette around, he'll find it.



RICHARD WILLIAM RINGLER

Varsity Rifle Team - 1,2,3,4 (Captain - 4); Scabbard and Blade Society - 3,4

"Ranger Rick" - Forestry's own defender of motherhood and apple pie.



JOHN CLAUDE ROBERSON

Forestry Club - 2,3,4

Our own "Baby Bear." John makes log rolling look like cake



CECIL JENNINGS SAUNDERS, JR.

Forestry Club - Pulpwood Chairman, 3; Forestry

Pussyfoot Award of the Year — one case of Johnson's baby powder to C. J. & Co.



RAYMOND MARSHALL SHEFFIELD

Forestry Club - 2,3,4; Xi Sigma Pi - 3,4 (Secretarial - Fiscal Agent - 4)



ROGER LEE SHERMAN

University Parking & Traffic Comm. - 4; SAF - 4



JOHN MANSON SHERRILL

Xi Sigma Pi - 3,4 (Assistant Forester - 4); Forestry Club

On opening day of trout season last year, Jack returned to camp for fear of losing his fish — it couldn't be because he had cold feet?



JAMES ALSTON SMITH

Forestry Club - 3,4; SAF - 4



EDWARD COPELAND SOSSAMAN, JR.

Xi Sigma Pi - 4; Forestry Club - 3,4; President Forestry Council - 4; Student Executive Board - 4; McKimmon Village Council - 3,4; SAF - 4; Intramural Bowling - 1, Softball - 1,2,3,4 Basketball - 2,3,4 "Know, Know" thought Browning Auto 5's and Boonesfarm were the best, but all he can hit are Coots and shopping carts.



ROGER DEAN STUCK, II

Xi Sigma Pi - 3,4; Farmhouse - 2,3,4; Interfraternity Council - 2,3; SAF - 4; Intramural Football - 3,4, Basketball - 3,4, Softball - 2,3

Roger Dean Stuck, II - Humility Personified



KENNETH MARSHALL THOMPSON

Forestry Club - 3,4

Ken is forestry's own Merle Haggard. It is rumored that Ken might really make it to the alter or possibly "halter" this spring.



JIMMY LEE WATT

Forestry Club - 1,4; SAF - 4; American Forestry Association - 3

The best thing that can be said for Jim is that he really knows how to pack a lunch complete with at least a gallon of ice tea.



JAMES EDWARD WILBOURN

President, Forestry Club - 4; SAF - 4

Jed really deserves the hats off treatment; poor fellow has really struggled to make passing grades. (# 1 in forestry)



GARY NEAL E ZIMMERMAN

Student Government - 1,2; Forestry Council - 2; Forestry Club - 3; Xi Sigma Pi - 4

Forestry's own Bronson. Gary can make a cycle talk.



Be careful where you sow seed.

SENIORS - NATURAL RESOURCE RECREATION MANAGEMENT



WILLIAM ANDERSON BANKS



ARTHUR CRAIG BETHEL



JAMES MICHAEL BLAZAKIS
"Me sleep in class? You must be kidding."



JEAN BARTON GILES



JOHN HARMON HARRISON

Why worry about a job? There's a whole country to choose from.



PARKS MARTIN LOW, JR.



EDWOOD G. WARREN, JR.



JOHN EDWARD WICKLAND

Recreation and Parks Club - 4; Inter-Varsity Christian Fellowship - 3

When in doubt, see Mr. Hammon.

SENIORS - PULP AND PAPER SCIENCE AND TECHNOLOGY



CHARLES EDWARD ADKINS

Intramurals (Football, Basketball, Softball) 1,2,3,4; Secretary, TAPPI - 4; Fourdrinier Society - 3



ROBERT LYNN ARMSTRONG

TAPPI, Treasurer - 4; Fourdrinier Society - 3; Owen Hall Treasurer - 3; Floor Assistant - 3,4; Alpha Zeta -3,4; UCCF - 2,3,4; Intramurals - 1,2,3,4



THOMAS GREY BOTKINS

Forestry Club - 1,2; TAPPI - 3,4; Forestry Council - 3,4; Xi Sigma Pi - 3,4; Intramurals (Football, Basketball, Softball) 1,2,3,4



JIMMY CARSON BOWEN

TAPPI - 4; Xi Sigma Pi - 3,4; Chairman Bragaw Judicial Board - 3



WALTER ROBERT CAMPBELL, III TAPPI - 4



STEVEN LANIER DAVIDSON

TAPPI - 3,4; Vice-President - Residence Hall; InterResidence Council - 3



BENJAMIN ROBERT HARLEY TAPPI - 3,4; Phi Kappa Tau - 1,2,3,4 (Housemanager -4; Pledgemaster - 4)



JAMES WILLIAM HILTON Football - Pulpers



CHARLES EUGENE HOLMES



WILLIAM STEVEN HUDGINS TAPPI



WALKER L. IVIE, III TAPPI



ROBERT DEAL JAMES, JR. Intramurals - 1,2,3,4; Phi Eta Sigma - 1; TAPPI - 3; Xi Sigma Pi - 3,4; Theta Tau - 3,4



WAYNE ALLEN McFEE

TAPPI - 4; Fourdrinier Society - 3; Intramurals (Basketball - 2,3,4; Football - 1,4; Softball - 3,4)



LARRY WILLIAM NELSON TAPPI



THOMAS CALVIN RABB



RONALD BINOM RALEY
Theta Tau - 2,3,4; Xi Sigma Pi - 3,4; AICHE - 3,4;
TAPPI - 4



JOSEPH LAWTON SHAW TAPPI



FREDRICK WILLIAM TANNER TAPPI - 3,4; CPPA - 3,4



WILLIAM RANDALL TAYLOR

Xi Sigma Pi - 3,4; TAPPI - 2,3,4 (V.P. - 3; Pres. - 4);

At Sigma Pt - 3,4; TAPPt - 2,3,4 (V.P. - 3; Pres. - 4); Scabbard and Blade Society - 3,4; Association of the U. S. Army - 1,2,3,4 (Captain - 4)



PHILIP RAY WHICHARD TAPPI



CHESTER EARL WILLIAMS

TAPPI - 4; Fourdrinier Society - 3; Program Chairman - TAPPI - 4

THE FORESTER'S HANDY FIELD POCKET DICTIONARY

TREE: 800 bd.ft. of # 1 grade.

FOREST: whole lot of bd.ft. of many grades.

SEEDLING: not yet a bd. ft. APPROXIMATELY: "close enuff."

CRUISE: to tramp among the bd. ft.

BOOTS: to cover feet while tramping; must be barnyard acid resistant.

HARD HAT: to cover eyes while sleeping.

EYEBALL: cruising instrument.

ENVIRONMENTALISTS: !++\$%/&*(*&/%8++,

ECOLOGY: brainchild of !†+\$%/&*(*&/%\$+†.

MANAGEMENT PLAN: clear cut.

MANAGEMENT TOOL: chain saw,

CHAIN SAW: inevitable mechanical trouble.

AESTHETICS: views from logging road.

SENIORS - RECREATION AND PARK ADMINISTRATION



RICHARD ADAMS BARBER



WILLIAM HOAGLAND BOOTH, JR.
Recreation's own "Dirty Harry", who is really the tough guy in RRA 241.



JAMES B. BROOKS, JR.



HUBERT EARL CARPENTER, JR,
Sigma Phi Epsilon
Bo's idea of recreation is sitting behind a royal flush
or teeing off on the # 1 hole.



HIDITH LORRAINE COLLIER

Student Senate - 1; Forestry Council - 1; University Choir - 1,2,3,4; Mu Beta Psi - 3,4

Why is it everybody laughs when Judy opens her mouth to speak? She's known as one of the Murdock kids, but that will change this summer when those wedding bells ring.



JUNIUS EVERETT DAVIS

Forestry Club - 3,4; Recreation and Park Society - 3,4 A shy, quiet guy who hopes to be a statistician with the U. S. Forest Service, or a facility and site planner with the National Park Service.



WILLIAM HENRY EARP

Recreation Majors Club - 4; Baseball - 1; Baptist Student Union - 1,2,3

Everybody thought that Bill had an office on 4th floor Biltmore, but he was only trying to convince a certain professor that there had to be some place for him to do internship.



DOROTHY ANN FLEMING



TIMOTHY HUGH FOLEY

Football - 1,2,3,4; Sigma Nu - 1,2,3,4

Recreation's "out of doors" expert who's exploits while camping, cycling or playing football are well known.



THOMAS JOHN FOWLER



RICHARD HAROLD HELMAN

Rho Phi Alpha - 2,3,4; Xi Sigma Pi - 3,4; Intramural Basketball, Football

Rich doesn't say much, but you know those wheels are turning. Anyone with a double major has to have something going for him.



LEWIS NEWTON HODGES

Rho Phi Alpha - 2,3,4; Treasurer - 3; Phi Kappa Phi -4

Lewis has really proved to be a success at this institution — wonder how he'll do at the institution of marriage?



GERTRUDE LOUISE HORTON

Rho Phi Alpha -4; Xi Sigma Pi -3.4; Floor Courselor in Lee Dorm -4; Assistant to N. C. S. U. Women's Intramural Director -4; Women's Varsity Basketball -4 We all certainly wish that Trudy would tell us how she talks all of the professors into giving her A's, and those people in Florida into giving her a job.



KENNETH RAY JOHNSON



THOMAS RAY JONES

National Society of Pershing Rifles - 1,2,3,4; 1st V.P.-Recreation Club

Everybody listens to Tom - the way he handles that rifle, you'd be crazy not to, right Randy?



PHILLIP DAVID LOWNES

Rho Phi Alpha - 2,3,4; Xi Sigma Pi - 3,4; (Ranger - 4); Fencing - 2,3,4 (Captain - 4); Recreation Club - 3 (V.P. - 3)

N. C. State's own Errol Flynn. Phil's bound to get any job he goes after, what prospective employer can say "no" with an epee pointed at his heart?



MATTHEW LYLE, III

Alpha Phi Omega - 1,2,3,4 (Pres. - 4); Rho Phi Alpha-2,3,4 (Pres. - 4); Xi Sigma Pi - 3,4; Forestry Council-3,4 (Sec. - 4); Student Senate - 3; University Choir -1,2,3; Floor Assistant - 2,3; University Committees - 3,4 Matt would like to institute some new courses into the curriculum: the art of making milkshakes; how to find and keep a mistress; the trials of a homecoming queen contest; and, how to be active and still be a student.



ROBERT MARKS

Recreation Majors Club - 3; Varsity Men's Glee Club - 1,2; Society for Afro-American Culture - 1,2,3

The Michelangelo of RPA. You can tell Bob is going to go places just by the way he peddles that bike.



RANDY LAWRENCE MOBLEY

Recreation Majors Club; Floor Assistant - Sullivan Dorm; House Council

Better known as "Semi-" in the Rec. Dept.



WILLIAM ALBERT MOON

Bill has enjoyed his four years at State; he was always on top of everything, usually his bed.



JIMMY CLARENCE MURPHY



TED CHARLES NOWELL Rho Phi Alpha - 4; Xi Sigma Pi - 4

Ted will have a great future in recreation; if that doesn't work out he can always paint silos, pump gas or work for the SBL.



JAMES DOYLE OVERMAN Pi Kappa Phi - 3,4



JOHN PIERRE PEROTTI

You would think that John was the "Man from Glad" dressed in all white, but actually he's busy working in therapeutic recreation at Dorothea Dix Hospital.



GEORGE ALEXANDER REDFERN, JR.

Recreation and Parks Society

Sandy's favorite recreation course was Facility and Site Planning and he can't wait to get back to Hanging Rock State Park and re-design it.



ROBERT LOUIS SHEARIN



BOYCE EDWARD SMALL, JR.



JAMES SETH STEVENS, III

Rugby Club - 1,2,3,4; Recreation Club - 3,4; Intra-

Steve's favorite course was RRA 358, Recreation Programs, but his idea of recreation is playing rugby which can get you killed.



JOHN CLARK STOKES

Rho Phi Alpha - 2,3,4; Xi Sigma Pi - 3,4

John came South for an education but he can't wait to go back north where they speak his language.



MICHAEL WARREN STOKES

Rho Phi Alpha - 4; Recreation Club - 3,4

Mike will make a good recreator, especially if it involves fishing, basketball or a recent graduate of UNC-G.



DAVID ALBERT SUTTON

Rho Phi Alpha - 2,3,4 (Treas. - 4); Xi Sigma Pi - 3,4; Circle K Club - 3.4

David really knows how to stay out of trouble, and out of classes – find the nearest golf course.



JIMMY BENJAMIN WALL

Recreation Club

Jimmy will make a fine recreator if he works as hard as he did as a bus driver for RRA 358.



ANN GRAY WEATHERWAY

Has more guts than the editor. She made it through BS 100.



ROSS LIVINGSTON WHITFIELD



STEVEN GLENN WILSON



BETH EVELYN WILSON

Rho Phi Alpha - 3,4 (Sec. - 3, V.P. - 4); Xi Sigma Pi - 4; Metcalf Judicial Board Chairman - 2; Girls Intramurals - 1,2,3,4; Women's Basketball Club - 4; Recreation Club - 3

Beth should be editor of THE PINETUM. Such journalistic talent going to waste. Okay, Beth, I won't tell them you wrote all the comments.



KATHERINE ANN WITHERS

Agromeck - 1,2; Women's Basketball Club - 4; Intramurals - 1,2,3,4

If Kathy were only a few inches taller, Tommy Burleson would have had a run for his money. Speaking of running, a lot of people would be a lot happier if Kathy could get to class on time.



SENIORS - WOOD SCIENCE AND TECHNOLOGY



PHILIP OLIN EPPS
Forest Products Research Society - 4

Captain Epps came from Clemson and the U. S. Army. Now, he's going to graduate school. Some People . . .



OSCAR ESCOBAR
Columbia's resident wood technologist



KENNETH WAYNE HART

Forest Products Research Society - 4

What's a wostech? One of the F.R.B.'s from way back. Soon to be a graduate of Carter's training school for wood engineers.



VICTOR CARSON JOHNSON

Forest Products Research Society - 4; Forestry Council - 4; Assistant Editor, THE PINETUM - 1971; Editor-in-Chief, THE PINETUM - 1972; National Society of Pershing Rifles - 1,2,3,4

Watch out world!



JAMES D. GOLDSTON, III

President, Forest Products Research Society - 4; Assistant Editor, THE PINETUM - 1972

One of the boys. Just might own a sawmill someday.



ROBERT GEORGE REEDER

Varsity Wrestling

Another one of the F.R.B.'s from way back. Knows everything about everything.



CLIFFORD JOHN SMALL

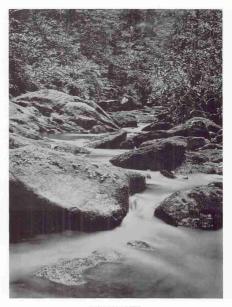
Another student in Carter's training school.



RICHARD Y. TETREAULT

Forest Products Research Society - 4

Canada's only representative in Short Roy's training school. Richard knows everything about nothing.



STUDENT LIFE

"Life is too short for everything. Choose you must, and as you choose, choose only the best in friends, in books, in recreation, in everything!"

Unknown

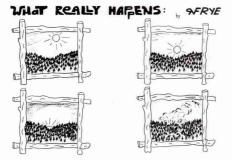
FORESTRY COUNCIL

The Forestry Council was first established in the fall of 1966. Its purpose was to serve as a channel of communication between the administration and the students of the School of Forest Resources.

Membership has grown from five members in 1966 to 13 members this year. Initially, the Council consisted of the presidents of the five student organizations in the School. Today's Council is composed of department representatives, organizational representatives, and student government senators from the School.

The Council is responsible for the use of the two dollar per person school fee which is included in registration fees. This amounted to approximately \$3,000 this year. Again, the majority of the budget went to financing THE PINETUM (\$1,900). Funds were also granted upon request to organization functions. Remaining funds went to subsidizing "the Logger's Brawl" and to a new library fund set up to purchase needed magazines.

The main function of the Council this year has been an attempt to unify the different curricula within the School. An open house in the School is planned, giving students a chance to view the program in curricula other than their own. The Council is also handling "the Logger's Brawl" this year with the consent of the Forestry Club. It is hoped that with all curricula helping in the planning and preparation that a closer unity of the students will be generated.





Get your info here.



FORESTRY COUNCIL

The Forestry Council, along with the other student organizations, provided manpower for the School of Agriculture and Life Sciences and School of Forest Resources Open House.

Such strength!



Sorry I only got half of her.



Crowds. Crowds. Crowds. . .



Tell them all about Forestry.



Now look kids - it just won't burn.



Recreating is fun.



Making things out of paper - clothes, batteries, pipes, girls . . .

The Forestry Council also sponsored the Logger's Brawl with the able assistance of the Forestry Club.



Music was by Country Fever.

Joe Queen shows everyone a step or two.





We learn fast!



Fun. Fun. Fun.



Oh! What a night!

We even had our own OPEN HOUSE - Thursday, March 23, 1972.



NCSU Parks and Recreation Club



Forestry Club



Xi Sigma Pi



Forestry Council

Paper Products



Wildlife Management



Society of American Foresters



Mr. Gilmore explains wood utilization.



From rags to riches, or from tree to finished product.



Our new pushbutton pay telephone.

SUMMER CAMP SEVENTY-ONE By James A. Smith

The clamorous and nerve-shattering arousal, engendered by a pine gall striking a circular-saw blade, permeated Slocum Camp and drifted to some secretive cove along the Flat River, where the night cricket hushed and the blueiav began his incessant scolding. Within a few seconds thereafter, sleepy eyes opened and the inhabitants of the Big Lodge and the cabins nearby half rolled from their bunks and without undue gracefulness pulled on work clothes and "stomped" on their boots. The dry log walls were a perfect sound board for the penetrative commotion of the day's reveille such that no living being could bypass the awakening. Indeed, the morning emigration from bunk to breakfast was reminiscent of the loading of wooden cattlecars coupled by any number of doors that were not closed but slammed shut. However, the noise was not annoying, for it aggrandized the vibrancy of the early morning with its preludes of frogs, crickets, and birds and its cool moist breezes soon to be broken by the warmth of the June sun. As commanded by sheer curiosity, the eagerness to get started and to discover the summer camp experience was most pronounced on this first morning of camp. How the general atmosphere of ecstasy became that of lethargy shall be alluded to later.

It was after a welcome breakfast of eggs, bacon, toast, and hot coffee that the boom of a chesty voice over the bullhorn ordered, "EVERYONE IN THE MAIN CLASSROOM — MAIN CLASSROOM — EVERYONE IN THE MAIN CLASSROOM." Within five minutes, fifty-seven crude but potential foresters amassed inside the lodge, the classroom of which reeked of mice and men, of woodsmoke, of a half-dozen furning pipes, of cigars, of chewing tobacco, and of various other disperite vices. Everyone was engaged in talking, punching his neighboring classmate, reading wall graffiti aloud, and laughing. Such jocosity and exuberance has never prevailed in the academic world, as did in this classroom. Indeed, it was unique. But the unruliness of the group was ephemeral, for the arrival of that same booming voice of the bullhorn brought forth ground rules, requirements, regulations, duties, and helpful suggestions that the wise would adhere to. Summer Camp was underway.

In the weeks that followed, each of us came to realize the serious nature of forestry as a profession. It was not playing Paul Bunyan, riding through the Rocky Mountains on a Palomino horse with Lassie by your side, or fishing in a trout stream everyday of your life. However, forestry, as we soon discovered, was a science composed of myriad and diverse subjects, such as silviculture, mapping, mensuration, photogrammetry, silvics, entomology, pathology, soil sefence, hydrology, and others. The forest, once viewed as only a place to pitch a tent, had suddenly become a laboratory -- a place of study, a place of work. Each day we dealt with these studies, information being brought to us by our instructors, each a wizard in his own field of specialization and each having had a wealth of experience.

Although most of our practicum was limited to the Hill Forest, Durham County, we were fortunate enough to visit Stallings Air Field in Kinston, North Carolina, where the foresters of the N. C. Forest Service awaited us with an invaluable training session in forest fire prevention, pre-suppression, and suppression. After many hours of lecture on the organization of a project fire control plan, we had the opportunity to participate in a field problem on the control of a simulated forest fire. Through an enigma of mistakes due to our inexperience, each of us felt that we had learned much about the dynamics of fire control. (Incidentally, it seemed oddly amusing that we were able to envision a real forest fire, even though the field exercise was forced to adjourn due to rain.)

By the time of our return to camp after the Fourth of July vacation, our formerly simplistic attitudes toward the demanding work of a forester had metamorphosed enormously. However, the ultimate test which posed the question, "Do I really want to be a forester?", came when all fifty-seven of us ventured forth into the depths of the Hill Forest with staff compass, Abney level and chain. Each of us had to find his own answer to the question during the days that were spent walking in the summer heat and humidity, collecting data and the nights that were spent compiling this data into a logical scheme. The body became vexed for sleep, while the mind became addled amidst the countless calculations. The seemingly endless hours of listening to the mechanical crunch of rotary calculators, grinding out correct and incorrect figures, carried the mind to the brink of insanity. But it was during these moments of stress when that historical cry of "GUNG HO!" brought forth the surge of enthusiasm to complete the job. Due to this single expression, which became the camp byword, the topographic maps and volumes were completed, despite heat, fatigue, insect pests, and "a particularly unexpected electrical storm."

Needless to say Summer Camp was not all work, for this would make "Jack Forester" a dull person. Items of relaxation include: innertubing down the Flat River to Lake Michie, pitching horseshoes, whittling on the front porch of the lodge, and playing volleyball. Other sportful wents which few of us will forget are dousing a certain faculty member in the pond, Driss's first experience with air conditioning, a fireside tobacco spitting contest with "Smokey", and a Chigger-Man contest won by "Charlie Chieges".

After final exams during the eighth week, we began our voyage to the campus of Western Carolina at Cullowhee, which served as a base camp for our trips to Nantahala National Forest, Coweeta Hydrological Research Station, W. C. Hennessee Lumber Company, Unagusta Furniture Company, U. S. Forest Service at Franklin, N. C., and other places, all of which were highly informative for those who were observant and inquisitive. Particularly noteworthy was a dendrology hike down from Richland Baism, elevation 6400 feet, during which the lecture was literally "drowned out" by torrents of rain in the luscious verture of the decidiows forest.

On the final day of Summer Camp we visited the historical Biltmore School of Forestry founded by Dr. Carl Alwin Schenck. After having seen a brief film on the founding of the school and the early buildings that have been reconstructed, each of us fell a natural kinship to those first forestry students and integral part of the profession. As we looked back on our summer work, it now seemed that all we had done had not been done in vain. We had discovered a heritage. We, too, were Biltmore Foresters.



Watch out for the Three legged grizzy.

ROLLEO 1971

Ah, yes - - another beautiful day for the Rolleo. The sun shining, the birds chirping, the beautiful colors of a cool autumn day. What a day for the '71 Rolleo! Then I woke up. As usual, for the past seven years or so, the weather was absolutely miserable. Raining, dark, cold, and the wind was something comparable to that of a hurricane out of the northeast. I was seriously contemplating staying in bed and telling everybody that if I got out in the rain that I would melt away but I finally decided that they would never believe that so I decided to get going and take it like a man(?).

Again, as always, each competitive activity was entered into by four teams, each team representing one class, that is freshman, sophomores, juniors, and seniors. The schedule of events started at 10 a.m. sharp with the first event being chain throwing. Ordinarily there is a problem of impressing upon the spectators that they should stand back from the event taking place so that the contestants have sufficient room to compete and also to reduce the chance of injury to themselves. This year no such problem existed. You may ask why, Well, it seems as though that approximately three-quarters of the mud in the entire state of North Carolina was also at the Rolleo and everytime someone threw a piece of pulp or rolled a log just about all the spectators got splattered with a liberal dose of good old terra firma.

The schedule of events rolled along like clockwork with "Mac" McLaurin, Professor Gemmer, and Dr. Davey on the stop watches. The senior team took a quick lead but the hot breath of the junior team was on their necks the whole way. As things started getting ready to boil the log birling event came up and that kind of cooled everybody off, especially the contestants. The next event was the most fun of all for the spectators and contestants alike - Lunch! This year's Rolleo lunch was probably the most enjoyable and successful one we've ever had. Due to the ambition and ingenuity of Earl Overton, his wife, Sue Peterson, and a bunch of other people, everybody packed their tummy's, sat back and burped, including yours truly. A very interesting and informative half-time show was presented by Sam Long, Ron Cook, and Sam Amerson when they demonstrated and explained the rubber-tired skidder which was donated to the School of Forest Resources by the Clark Enginement Company.

After lunch and our half-time show, the competitive events of the Rolleo were resumed. The senior team still held the lead but now by a relatively wide margin. The afternoon wore on and the senior team increased their margin until finally the Rolleo was over and the senior team had won by a virtual landslide.

Probably, the most impressive and significant happenings of the day in order of increasing importance was during the cigar fight when somebody shot a lightbulb out after the event was over, and also the phenomenal amount of spirit, enthusiasm, and just plain old hard work that the freshmen team displayed under the captaincy of Tim Garrahan. Although they placed last in the competition, they placed first in effort.

All in all, in spite of the weather, both spectators and contestants enjoyed themselves throughly, and next year, when Rolleo day rolls around again, I hope I'm dreaming about a rainy, miserable day but wake up to a beautiful, bright, fall one. See ya' all in the Fall at the Rolleo 1972!



Log Rolling is fun!



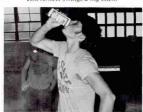
Make those chips flv.



It's good for the arm muscles.



Jim Arnett swings a big stick.



Schlitz is better.



Joanne and Judy at it again.



Firefighting at the Rolleo.



Pole felling for accuracy.



Everyone should take a bath.

NCSURPA

The NCSU Recreation and Park Association, formerly known as the Majors Club, has reformed in an effort "to develop and foster the interests of parks and recreation students." As a member of the Association, a student will have the opportunity to be exposed to prospective employers, to acquire leadership capabilities, and to augment his education in an informal atmosphere.

In reviewing the broad horizon of the profession, the Association was privileged to have Harold Moses, president of the North Carolina Recreation and Park Society, tell of the advantages of forming a student branch in the NCRPS. The move to affiliate the NCSURPA with the State Society is currently being considered.

Some of the projects that the Association is planning to initiate are trips to recreational sites of interests, such as the site for the State Zoo near Asheboro and an overnight stay at Kerr Reservoir, a Big Brother program, and the Departmental Spring Picnic. Some of the other undertakings that are being scheduled are programs of employment opportunities, special recreation problems, and to host several noted speakers that will be of interest to everyone in the School of Forest Resources.

"It takes courage to build" and the NCSURPA is building. Step by step the Association has struggled to assume its role in a developing profession, yet in an effort to acknowledge the wide spectrum of skills involved with the field of recreation, the Association is onen to any interested student.

FOREST PRODUCTS RESEARCH SOCIETY By Frankie J. Rackley

After an absence of one year, the Forest Products Research Society at N. C. State has been returned to its status of being the professional organization for the Wood Science and Technology and Furniture Manufacturing curricula.

The major objective of the student chapter of the FPRS is simply "to promote good fellowship among students and to provide closer contact between students and members of the wood industry" and also "to aid in the exchange of information on the latest developments in the forest products field." In an effort to accomplish this endeavor, this year's student chapter is bringing in prominent figures in the wood products industry to speak on their experiences and the most advanced trends. An example of one of these speakers is Mr. Lloyd Cramer of Cramer welchers, line, a self-made veneer magnate who spoke of his companies recent diversifications and expansion both nationally and internationally

The N. C. State Chapter was founded in 1951 and is proud to be recognized as the first college chapter organized in the United States. The first N. C. State chapter was organized and is presently being administered through the leadership of Mr. Roy M. Carter, Professor of Wood and Paper Science, and past president of the national FPRS society. Student membership entitles one to participation in the national society on a junior basis. However, one may become eligible for FPRS publications and voting rights through membership in the National Society.

Although the student chapter's major objective is to broaden interest among its members, it is also concerned with and cordially invites all visitors and prospective members to attend its meetings in the interest of increasing their knowledge of the ramified wood products industry.

OH, WHO CAN GO TO THE CONCLAVE? By Jim Goebel

With the advanced schedule for semesters started by N. C. State for the "70-71 year, finals and team projects came a little earlier in the spring than usual. In the week prior to the Conclave, rumors ran hurriedly about the southwest corner of campus. The seniors cried management plans, the juniors moaned mensuration and silvies while sobles and frosh had their excuses also.

Finally out of the midst of confusion, thirteen students rose to answer: "I'll go." We joined Mac McLaurin as he wheeled the school bus westward for 23 hours. We arrived at Arkansas A & M in plenty of time to get a good night's sleep before the meet.

The first day of competition included technical events. Each did his best then practiced for the field events. As there were few of us it was not too hard to decide who would be in what events. However, there was some shuffling the next morning before the other teams got up. We knew the results of the field events as the competition proceeded; however, we had to wait until the banquet to know the results of the technical events. Bob Reilly earned State a few points in the knife throw as did Dave Brown in bait casting and Jim "Mullet" Smith in log chopping. John Gurganus flung his axe for third place, then came back to double with Smith taking first place in cross cut sawing. The events were many and the contestants few so Smith moved in again with fourth to bow sawing. Mike Gurganus and Ray Sheffield took fourth places in log birling and chain throwing respectively. Gene Holder sprung to third in pole climbing followed by John "Bear" Roberson and Jed Wilborn's second fastest time in log rolling. That was rather good considering Jed had just been delegated log roller at 6 a.m. that morning! Jim Arnett, a pole feller from way back, earned State a second place with a near miss. Mark Horne, still a little green, did well in "fire fighting."

In the technical events, Wilborn took third in Wood Tech, while John Gurganus took fourth at classifying poles. Jack Sherrill, fresh out of dendro and summer camp, couldn't believe the 30 inch sassafras. He took third place anyway. From "Father's 406" came Dave Brown to talley third in timber estimation. "Roberson's Rule of D.B.H. estimation" almost worked. Jim Goeble closed the compass and pacing course missing the ending point by 21.8 links (it had to be luck!1). That was good enough for a first.

Our second place over-all victory tore "Paul Bunyun" to pieces. He left with State as the other 10 teams lingered behind. Paul didn't say much. Jim Smith's fish stories must have left him speechless, or Paul may have been pondering Silvics.

FORESTRY CLUB By Sewall K. Hoff

"Look at this. Don't you think that this is about the worst case of poison ivy you've ever seen in your life?"

"That's not really so bad. Here let me take these crusty bandages off and really show you a red oozing mess. Why when I went to the doctor with it, he was all set to ship me off to a leper colony. Hey, you over there, come here."

"Who, me?"

"Yes, you. Wouldn't you say that this case of poison ivy is a whole lot worse than his?"
"I really find it kind of hard to say, but how did you happen to git it in the

first place."
"We were out in the Schenk Forest last weekend cutting pulpwood for the

Forestry Club."
"Why were you doing that?"

"To earn money for the club. The forest needs to be thinned, so we go in and cut out the substandard trees and sell them to a woodyard. You may remember that there was an article in the TECHNICIAN about it."

"I remember the article, but it seems that whoever wrote it got all the names of the people wrong."

"That he did, but of C. J. straightened him out."

"C. J.?"

"C. J. Saunders. You've heard of him, no doubt,"

"I think so, wasn't he the president of the club?"

"No, Bruce Richards was president first semester."

"Is Bruce Richards the guy that resembles Smokey the Bear?"

"No, that is somebody else altogether. He is over there wrapped up in more bandages than King Tut. He really gets poison ivy. At any rate Bruce graduated between semesters, and Jed Wilbourn is the president now."

"I think I've got that straight, but apart from cutting pulpwood what else does the club do?"

"We also do tree jobs to make even more money."

"Are tree jobs a new perversion?"

"Let me give you an example. Now, if a man has four big healthy Loblollies that he wants taken out of his yard, so that his Blackjack Oaks can grow better, he calls us. For vast sums of money we remove them. For even more money we prune up those Blackjack oaks until they look just like a bunch of palm trees,

"That sounds like fun. Have you ever dropped a tree on a roof, or has anyone ever fallen out of one?"

"Not vet."

Not yet.

"That's good. Besides cutting down trees does the club have any other activities?"
"Several in fact. At the open house sponsored by the schools of Forest

Resources, and Agric. and Life Sciences we had about fifteen people run a booth and give prospective freshmen tours of Biltmore Hall.

"The club was also instrumental in organizing the Rolleo, and even though the Forestry Council is running the Logger's Brawl this year the club will do a lot of the nuts and bolts work of setting it up." "You mentioned Rolleo, as in Rolleo and Jumiett?"

"The Rolleo is competition between the classes in woodsman's events like chopping, and sawing, and things of that sort. The seniors won it handly; that makes the third year in a row that group has emerged victorious."

"You mentioned the Logger's Brawl?"

"It used to be the Logger's Ball, but it degenerated, or got better, depending on your point of view. It is actually a dinner and square dance. In years past it has been held at the Hill Forest, and was exclusive property of the club, but this year it is open to everyone in the School of Forest Resources, and will be held in Raleigh. The people who like to travel will go to the Conclave."

"Is the Conclave a secret society of Foresters?"

"It is really more like the Rolleo, with a few technical events like tree identification and wildlife added on. The competition is between the Southeastern schools. It will be held in Oklahoma this year."

"I've been to Oklahoma, but I sure didn't see the wild life you mentioned. A couple of topless joints was the most I could find, and the girls were ugly at that."

"I think you are laboring under a delusion. At any rate the Conclave will be held here in 1975, and we are earning the money mentioned earlier to pay for it. Except by then I think the whole club will probably be long dead; eaten up by this awful, rotten, itching, poison ive."



Joanne, Judy, and Jim: raising money for the Club.



Best looking pulpwooders in the business!



One of the Clubs many social activities.



I didn't know Jim could play the guitar.



Warming those feet by the fire.

XI SIGMA PI

Founded at the University of Washington in November of 1908, Xi Sigma Pi is the oldest national forestry fraternity originating in the United States. Eleven chapters were formed before April, 1940 when Mu chapter was established at North Carolina State.

Mu Chapter, in an attempt to fulfill the objectives of the fraternity, offers the following: a means of recognizing deserving students who are outstanding in scholastic achievement and character; an opportunity to learn from students and faculty who are not ordinarily encountered in the university community and opportunities to be of service to the School.

As stated in the Constitution the objectives are: to secure and maintain a high standard of scholarship in forestry education; to work for the upbuilding of forestry and; to promote fraternal relations among earnest workers engaged

in forestry activities.

Although the fraternity was founded for forestry, some changes have occurred. As schools expand from Forestry to Forest Resources, so the fraternity has expanded to include conservationists, recreationists, and wood and paper scientists as well as foresters.

Mu Chapter distributed a periodic school newsletter, THE SCOFFER, and helped to man the School library. Meeting topics included presentations on hardwood management and the Sierra Club. Xi Sigma Pi presented the Freshman Axe Award and an Outstanding Senior Award. The year's activities came to a head with the Xi Sigma Pi and Senior Picnics.

Forester Jim Goebel Assistant Forester Jack Sherril Fiscal Agent Ray Sheffield Ranger Phil Lownes Advisor Dr. Bryant

NCSU STUDENT CHAPTER OF TAPPI

The NCSU Student Chapter of TAPPI, formerly the Fourdrinier Society, is affiliated with the national organization of TAPPI (Technical Association of the Pulp and Paper Industry). This is a dual purpose service organization for students in the pulp and paper science and technology curriculum.

The first purpose is to present technical lectures to supplement information presented in class, and to acquaint students with new developments in the pulp and paper industry. This is accomplished by visiting lecturers from the industry.

speaking at the bi-monthly meetings.

The second purpose is to strengthen friendship, communication, and services among the students in the curriculum. These are accomplished through the meetings, along with our semi-annual picnics and our intramural football and basketball teams. The Pulpers finished runner-up in the twenty team independent football league this year.

President – Randy Taylor Treasurer – Bob Armstrong
Vice-President – Russell Barnes
Program Chairman – Chester Williams

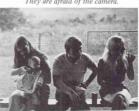
TAPPI activities included a picnic for Members and Faculty.



Eating is my hobby.



They are afraid of the camera.



Why is he so lucky?



Music to watch girls by . .



Everybody had a good time.



Cooking the food.



Air pollution.

SOCIETY OF AMERICAN FORESTERS N.C.S.U. STUDENT CHAPTER – THE NEW BREED By Hendal M. Price

"What is that, the new breed of foresters?" Such may have been the comment made along with a few chuckles, when several members of the newly formed Student Chapter of the Society of American Foresters crossed the stage in Durham to receive the charter from one of the Society Chiefs. The comment came in view of the fact that the young men were dressed in neat suits, but had hair covering their suit collars. Perhaps, the hair hid the effect of the suit,

Yes, we are in a new breed of foresters. So think the student chapter members of the Society. The NCSU chapter was organized with the goal of bringing to the public the new views of forest management, or as the concept

would be labeled today, multiple use planning of our forest resources.

The student chapter was organized at N. C. State University in January 1972 and was chartered at the Spring Regional meeting of the SAF in Durham. The chapter has had only one formal meeting this year, but had had several other meetings of the Steering Committee and other interested members. The first meeting was for organization and the speakers were Dr. R. C. Bryant and Dr. J. W. Duffield. The two faculty members gave the students an insight into the operations of the Society. Since the first meeting, several projects have been planned, such as presentation of aspects of forestry to the students of local schools.

Maybe the new breed of foresters is what the United States needs in its problems of ecology, conservation, and pollution. As one of our professors told a group of students: "We like to think of foresters as the first ones concerned with conservation and the environment." I think his quote well describes what the new breed are out to accomplish by promoting multiple use planning in forest management.

RHO PHI ALPHA

Rho Phi Alpha fratemity was founded in 1958 under the guidance of Profesor Thomas I. Hines. Its purpose is to recognize, to promote, and to encourage students of high moral character and unselfish devotion to the study, research, and application of knowledge to the betterment of recreation and parks for all people, and to recognize those persons who have made outstanding contributions to the field of recreation and parks.

This fall the fraternity prepared the Recreation Resources's exhibit at the Agri-Life Sciences' and Forest Resources' "Open House." On the day of the Open House, the members worked at the exhibit talking with high school

students about the recreation profession.

Each semester the fraternity held a recognition banquet at the Faculty Club to honor the new initiates. The members also worked on the School's Loggers' Brawl and Open House. In the spring, Rho Phi Alpha and the Majors Club will sponsor the annual recreation picnic in Pullen Park.

At the picnic the "Outstanding Senior Award" will be presented to a Recreation Senior on the basis of enthusiasm, leadership, and active participation in school activities. Last year's recipient was Bob Serino who is now a graduate student in the department.

Graduate Robert Serino

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Inniors

Dexter Barnett Bruce Clapp Kathy Edwards D. A. Freeman Thomas McKay Kathy Vettel Derek Williams

Sophomores

Lee Arrington Michael Davidson Michelle Garbarczuk Charles Griffin Linda McCall Susan Peterson

SCHOLARSHIPS AND AWARDS

ATHLETIC AWARDS

Burton, Roy Linwood, III Corliss, Robert Anthony Foley, Timothy H. Hudson, Richard Glen McNeely, John Linden, Jr. Phillips, Randolph Carlton Royal, Nathan Michael Siegfried, Winston T., II Whitley, Eugene F. (Jack)

Connolly, John Patrick Divens, Robert Arnold Horton, Randy Stewart Korsnick, Edward Patrick Moser, Gary Odell Pilz, Robert Shimp, Kirby T. Smith, George Lewis Whitley, Heber T., III

ARMY ROTC SCHOLARSHIP

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Trader, Wayne Clifton

VETERAN'S SCHOLARSHIPS

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Long, Samuel Comer

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NEW JERSEY STATE SCHOLARSHIP

Garrahan, Timothy James

NATIONAL HONOR SOCIETY

Gylnquist, Kathleen T.

FRENCH BROAD RIVER GARDEN CLUB

Haynes, Claude Benjamin, Jr.

PENN, SCHOLARSHIP

Jackson, Lance Edward

KEPPLER SCHOLARSHIP

Johnson, Victor Carson

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Armstrong, John Thomas Betts, Richard O'Dell Boone James Edward Brafford, Harley Wayne Cherry, Marvin Roy Creech, Harold Steven Davis, George T. Dennison, Mechael E. Durland Robert Farnest Gailey, George Chadwick Gylnauist Kathleen T. Hardison, William George Harman, Glenn Sherwood Hudgins, William Steven Hrnter Daniel McKiever James Robert Deal, Jr. King, Henry Leroy Lucas, James Leo Newton, Baron Blakeley Nielsen, David Allen Raley, Ronald Binom Robertson, Rex Alexander Schreier, Carl Bunting Smith, Kenneth Edwin Taylor, William Randall Vanosdoll, John C., Jr. Whitehead John Frazier

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Tanner, Fredrick W.

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Hearn, Jeffrey Alan

WEYERHAEUSER GRADUATE FELLOWSHIP AWARDS

Overton, Ronald P.

Seav, Stephen M.



Victor C. Johnson, a senior in Wood Science and Technology in the School of Forest Resources, receives William Keppler Memorial Scholarship from Mrs. Nancy Keppler. Dr. Irving Goldstein, Department Head of Wood and Paper Science, looks on.

This award was made on the basis of all-round ability of the recipient in academic work and in total participation as a student.

Mr. William Keppler headed up the Wood Products Section of the Forest Resources Agricultural Extension Program at North Carolina State University for the years 1960-1970.

Up to his untimely death in 1970, Mr. Keppler pioneered the largest wood products extension program in an American University and was esteemed widely as a professional and a personality.



Three upperclassmen in the Wood Science and Technology Curriculum (School of Forest Resources) receive Furniture Foundation Scholarship Awards. Pictured with George T. Martin, William Steven Woolard, and Frankis James Rackley are Dean Eric Ellwood and Professor Irving Goldstein, Department Head of Wood and Paper Science, who presented each of the students with a check for \$500.

These awards are the first of a number of scholarships provided by the N. C. Furniture Foundation of High Point, N. C.



The North Carolina Recreation and Park Society honored Miss Beth Wilson by presenting her with its 1971 scholarship award. This award is one of two presented to outstanding recreation students who have excelled in scholarship, demonstrated leadership qualities, and are possessive of good character.



Jim Goebel receives Homelite Award. Drs. Davey and Ellwood look on.

AN INTERVIEW WITH ONE OF THE GIRLS IN OUR SCHOOL By Victor Johnson

Editor's Note: The editors felt that an interview with one of the students in the School of Forest Resources would make an interesting article for THE PINETUM We chose to talk with Miss Kathleen Gylnquist, freshman in Pulp and Paper Science and Technology.

Kathleen Gylnquist is a freshman with unusual interests. In Pensscola, Florida she played varsity golf and this year practiced with the State golf team. She finished well in the State Science Fair as a high school junior and is currently doing research at State. As vice-president of the First Explorer Engineering Posts in Florida, Kathleen 'helped build a one hundred foot long bridge to a new seout camp. She is a member of the Fellowship of Christian Athletes and is one of the four freshman women in the Richardson Fellows Program. Despite her avid participation in these male dominated activities she has retained her femininity. Kathleen represented her high school in the Jr. Miss Pageant, was her city's representative to Girk's State, and won the Betty Crocker Homemaking Award. Her most exciting interest up to this date, however, is that she is a freshman actively enrolled in the Pulp and Paper Science and Technology curriculum, and is of course the first woman ever to do so.

Kathleen had the following comments to make.

"Of all the majors at State I personally cannot think of one more interesting or more far reaching than that of the dual degree in pulp and paper technology and chemical engineering. It seems that almost every product or service that we as consumers use can be directly or indirectly related to the paper industry. With technological advances of our day sky-rocketing the opportunity to devop new and more efficient products has never been better. Research is presently being done to find a nitrogen-fixing plant that would produce for a period of years instead of only a few months. With this advancement farmers would put in initial capital for forest production and would not have to make an additional investment for perhaps five years.

"The input of resources is not the only concern of the paper industry. It is also busy with the recycling of used materials. Not only are studies being done to better and more efficiently reuse paper, but also work is being done to use the waste residue that accumulates. A type of edible algae can be grown on chemical waste. The door is still open to make this type of food popular and economical to produce. Surely it is then evident that the opportunity to cure some of the ills of society is interlocked in the paper industry. Working from without can create pressure but not solutions. Therefore, I would encourage all interested young people, male and female, to work with the pulp and paper field and to strive towards creating some of these new possibilities."

Okay, gang. You have heard the lady. So get with it.

KING HEROIN . .

"King Heroin is my shepherd, I shall always want

These tragic words, part of a twisted rewording of the beloved 23rd Psalm, were discovered recently in Reidsville, N. C., in a closed car alongside a dead heroin addict. She was 23 years old.

"Her death was ruled a suicide. A hookup with the car's exhaust had sent carbon monoxide fumes from a running motor into the vehicle. Here's the complete 'Psalm'.

"King Heroin is my shepherd, I shall always want. He maketh me to lie down in the gutters.

"He leadeth me beside the troubled waters. He destroyeth my soul.

"He leadeth me in the paths of wickedness.

"Yea, I shall walk through the valley of poverty and will fear no evil for thou, Heroin, are with me.

"Thy Needle and Capsule comfort me. Thou strippest the table of groceries in the presence of my family. Thou robbest my head of reason.

"My cup of sorrow runneth over. Surely heroin addiction shall stalk me all the days of my life and I will dwell in the House of the Damned forever." Also found in the car with the dead woman was this written message:

"Jail didn't cure me. Nor did hospitalization help me for long. The doctor told my family it would have been better, and indeed kinder, if the person who got me hooked on dope had taken a gun and blown my brains out. And I wish to God he had. My God, how I wish it."

Editor's Note: Senator Sam J. Ervin, Jr. of North Carolina read this article into the Congressional Record. It is reprinted here with the thought that if one person changes his mind about taking the first shot by reading the article the space and effort are priceless.



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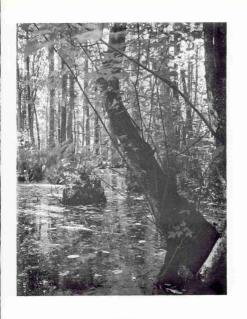


He's checking on our company and our industry, a fast-growing industry, among the len largest in the country. He finds that we need engineers, foresters and technicians for future growth, for the never-ending search for new products. Our company, a pioneer kraft paper manufacturer, offers positions of professional appeal to college graduates who are skilled in other fields also. And we assist high school graduates



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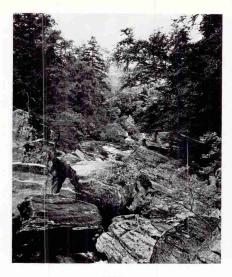
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TREASURER'S REPORT 3/6/72

1969-70, 1970-71

1969-70,	1970-71		
Beginning Bank Balance:		Slocum Fund	
		Operating Funds	1459.33
		Total	2980.31
Income:	1969-70 180 members	@ \$3.00 \$ 540.00	
	1970-71 196 members	@ \$3.00 588.00	
		\$1128.00	
			\$4108.31
Expense:	1970 Pinetums	396.90	
	1971 Pinetums	405.00	
	Newsletter	112.82	
	Postage (above)	350.82	
	Student help	10.50	
	Supplies-Buffalo Roast	112.13	
	Preston Retirement	200.00	
	Student Loan	100.00	
		\$1688.17	\$2420.14
Addition to Slocum Scholarship			. 907.00
		Present Bank Balance	
Recapitulation		Slocum Scholarship	. \$2427.98
		Operating Funds	899.16
		2	\$3327.14

Ralph C. Bryant Ex-Secretary-Treasurer



OMEGA

Look well to this day, for it, and it alone, is life. In the brief course of this day lie all the varieties and realities of your existence: the joy of growth, the splendor of beauty, the glory of action, Yesterday is but a memory and tomorrow but a vision. But today well lived, makes each yesterday a memorial of happiness, and each tomorrow a dream of hope.

Look well, therefore, to this one day, for it, and it alone, is life.

The Sanskrit

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