



Pinetum

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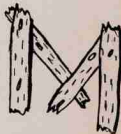
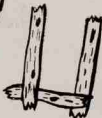
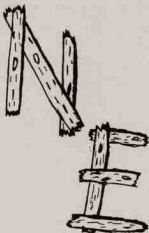
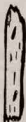
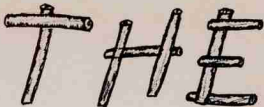
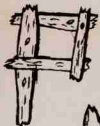
*Journal of the
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N. C. State College
Raleigh, N. C.*

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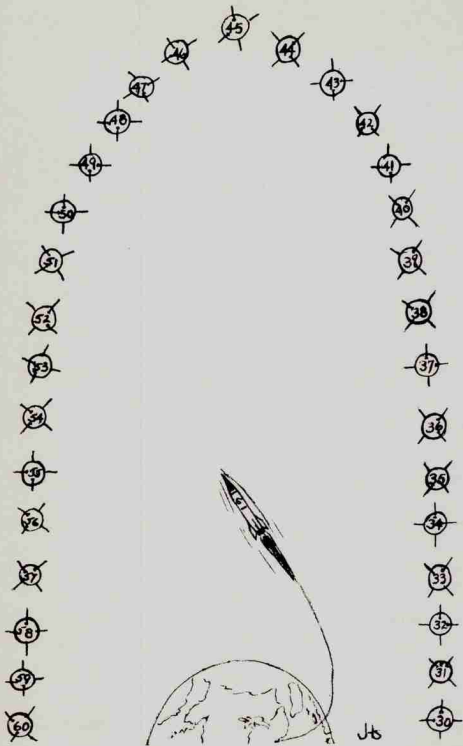
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TABLE OF CONTENTS

Foreword	3
Dedication	5
Faculty and School	7
Forestry Education at N. C. State College 1929-48	23
Activities and Progress 1948-61	25
Hofmann Forest Report	29
Students	31
Activities	45
Forestry Extension News	67
Some Comments On International Forestry	70
Still In Pakistan	75
Alumni	85
Index To Advertisers	106
Acknowledgements	107

FOREWORD

In keeping with the trend of the past annuals this book attempts to portray once again those things in the students' life which makes North Carolina State College's Forestry School an everlasting and beloved memory of hard quizzes, coffee-breaks, laboratories, and extra curricular activities. But to our regret these memories become dimmer as the years go by and so this PINETUM is published in the hope that it will renew old memories and ever keep united in spirit all the men who have made their way through the school. It is with this hope that we present the 1961 PINETUM.



Jb

**With pride and admiration
This 1961 issue of the**

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is respectfully dedicated to

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*The magnatude and latitude of their
accomplishments honor both themselves and the
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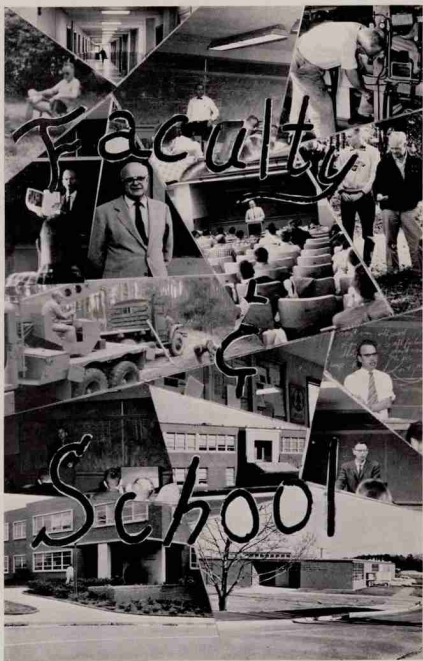
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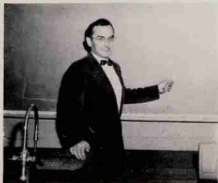
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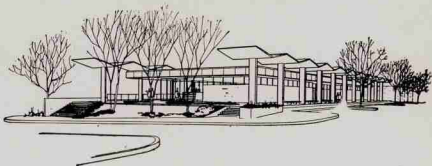
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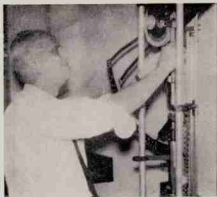
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CHESTER G. LANDES

Chester G. Landes, chemical consultant of Charlotte, North Carolina, has been appointed Assistant Professor of Pulp and Paper Technology in the School of Forestry. Landes began teaching in September at the Robertson Pulp and Paper Laboratory.

Landes was born in Lowell, Indiana and he completed high school in Columbus, Ohio and Sheffield, Alabama. Professor Landes holds a Bachelor of Chemical Engineering degree from Ohio State University and has done graduate work in organic chemistry at the Polytechnic Institute of Brooklyn. He is the author of a number of technical articles and holds over twenty-five United States patents in the paper and chemical fields. His industrial background includes over thirty years research and production experience with Mead Corporation, Fitchburg Paper Company, American Cyanamid Company, and Wica Chemicals, Inc.

Professor Landes is a member of the Technical Association of the Pulp and Paper Industry and is Vice-Chairman of its Coating Committee. He is also a member of the American Chemical Society, the Technical Association of the Graphic Arts, the American Association of Textile Chemists and Colorists, and the Chemists Club of New York.

Frank McKinney Hubbard—I don't see how some folks get by unless they profit by their mistakes.



DOCTOR CHARLES S. HODGES

Dr. Hodges is our Assistant Professor of Forest Pathology. And along with that honored position he is the Plant Pathologist of the South Eastern Forest Experiment Station where he is doing nursery disease research.

Dr. Hodges was born in Tennille, Georgia where he also completed his high school education. He received a B.S. in Forest Management and a Masters Degree in Forest Pathology at the University of Idaho. At the University of Georgia he received a Doctors Degree in Mycology. Prior to coming to State College Dr. Hodges performed some experimental work on Loblolly Pine management at the South Eastern Experiment Station and some initial nursery disease research at Athens, Ga.

Dr. Hodges belongs to the American Phytopathological Society, Mycological Society of America, and the honor fraternities—Xi Sigma Pi, Sigma Xi, and Gamma Sigma Epsilon.

ROY W. HUNTER

Roy Hunter is going to be with us this year as instructor in the Pulp Technology Laboratory. He is a 1950 graduate of North Carolina State College in Chemical Engineering. He is on leave of absence from International Paper Company at Pine Bluff, Arkansas where he is employed as first assistant Chief Chemist. He will be taking course work on the campus while he is helping in the laboratory.

This is the first acceptance of the proposal for such cooperation made by Dean Preston at last year's annual Foundation Meeting.



LOUIS L. GABY

Mr. Gaby came to N. C. State College this year to replace Mr. Taras as Wood Technologist for the Southeastern Forest Experiment Station. He came to us from the Macon Research Center where he was Forest Products Technologist.

Louis Gaby was born in Los Angeles, California and in the course of events he graduated from high school over 3000 miles from his birth place in the little town of Miami, Florida. He received a B.S. Degree in Forestry at the University of Florida and a Masters Degree in Forestry at Duke University. Presently Mr. Gaby is working towards a Doctors Degree here at State College.

Mr. Gaby is a member of the Xi Sigma Pi Honor Fraternity, the Forest Products Research Society, the Society of American Foresters, and the Society of Wood Science and Technology.

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FORESTRY EDUCATION AT N. C. STATE COLLEGE 1929-1948

By J. V. Hofmann

1929. Dr. J. V. Hofmann reported on February 1, for the opening of the Forestry School at North Carolina State College. A room 8 X 10 ft. furnished with a small oak table and an oak chair located in the swine department constituted the entire equipment. In April a committee from the Forest School at Mont Alto, Pennsylvania, consisting of one professor, two Juniors, two Sophomores and two Freshmen came to State College and insisted that the students from Mont Alto be admitted to the Forestry School at State College. No arrangements for opening a school immediately had been made, consequently meetings with the President of State College and the Governor of North Carolina to consider ways and means were required. The program was approved and the Forestry School was housed in Rick's Hall. Laboratories and classrooms were provided and faculty members appointed. This resulted in the transfer of 46 students from the Mont Alto, Forest School consisting of Juniors, Sophomores and Freshmen.

The Forestry School opened in September with registration of Seniors, Juniors, Sophomores, Freshmen and Graduates.

Professor Ralph W. Hayes joined the faculty and D. Y. Lenhart as Assistant Professor. Departments of Botany, Soils, Zoology and Engineering cooperated by teaching the subjects of Forest protection, Pathology, Dendrology and Surveying. All cultural subjects were taught by the established departments. A faculty of eight was organized to teach the Forestry subjects. Seventeen Seniors were graduated in June of 1930.

1929-30. The Forestry Club was organized during the first year and some very interesting and constructive programs were carried out in their regular meetings. The club has since been the important factor in many school activities.

All efforts to secure forest land for the school had met with very little success until later in the year when Mr. George Watts Hill gave the Department of Forestry title to 378 acres from his Quail Roost Farm. An agreement was worked out with Mr. Hill to help finance additional land joining this area which resulted in acquiring more than 1500 acres for the Hill Forest. The land was appraised and Mr. Hill approved the purchase through the Land Bank Financing.

1930-31. During the summer of 1930 a nursery was developed near the campus for growing seedlings to be planted on the Hill Forest. This nursery provided an opportunity for nursery practice as well as producing stock. Mr. T. C. Evans joined the faculty during the year.

1931-32. During the legislative session of 1931 the problem of forest lands was discussed with Senator Angus D. McLean. He proposed to sell a track of land in Hyde County to the division of forestry. The program was worked out during the season and the deed was completed the following year. The Forestry Club developed the program for Rolleo which consists of sports competition between the forestry classes. The Rolleo is held every year on the Hill Forest and has created a very fine spirit among the forestry students.

1932-33. The purchase agreement for the McLean Forest was completed and a tract of timberland containing 1564 acres in Hyde County was acquired. The classes in the Forestry School cruised this tract of timber and recorded growth and other factors. These class exercises served to acquaint the students with field operations.

1933-34. During the school year a program was developed for visiting forest regions and activities in the Southeastern United States. This was the beginning of the Senior trip which included the last half of the spring term. This trip was made by bus and the students visited various forest activities.

Professor Ralph Hayes resigned to take the position as head of the forestry school at Baten Rouge, Louisiana.

In the spring of 1934 the deed from the Hofmann Forest was completed. This includes a tract of land of about 80,000 acres in Jones and Onslow Counties. The acquisition of this tract of land had been studied for the past four years and was finally completed through the trustees of the David Allison land grants. The purpose of acquiring a large tract was to develop a forest management program for some of the swamp type of land in Eastern North Carolina. The program has developed very satisfactorily and the area has been converted into a productive forest unit. It was acquired on a self liquidating program with payments to be made over a 30 year period.

1934-35. The student summer camp was organized in the summer of 1936. This was a camp for the Sophomore class and was conducted on the Hill Forest and management and other forestry work.

Dr. William D. Miller joined the faculty during the year. He had wide experience in the western forestry and came to State College from the University of Idaho. During the year the Forestry Club organized the Loggers Ball which has been one of the social high lights in the club.

1936-37. The school year passed through the regular channels with no special developments. The Forestry Club approved a seal for the club which has been used by all members.

The news letter was made a regular feature of the Pinetum. Later taken over by Slabs and Edgings.

1937-38. The management program of the Hofmann Forest had been continued although the fire problems were still the major hindrance to development. It was decided to introduce cattle on the forest in order to reduce the fire hazard. This program proved very effective and was included in the forest management program. The owners of the Hofmann Forest agreed to a very substantial reduction in the purchase price if payment was made in cash. In order to do this a bond issue was made and the bonds sold on a 20 year serial basis. All principal and interest payments were made when due and the bonds were paid in full in 1958. All revenues were from receipts from the forest.

1938-39. The Forestry Club organized and produced an excellent booth for the Agricultural Fair at the North Carolina State Fair.

1939-40. Chapter of Xi Sigma Pi established, a national Honorary Forestry Fraternity.

1940-41. All going well with the School. Senior trip, Eulogy trip, summer camp and other school activities ran smoothly. WPA Labor Program completed the large cattle barn on forest.

1941-42. J. W. Chaffaut joined the Forestry faculty. He had assisted in land acquisition on the Francis Marion Forest in South Carolina and the Croatan Forest in North Carolina in addition to his experience in Fire protection, Surveying and Forest Management.

The Senior Class was graduated early in order to free the students for military service.

1942-43. Experimental pastures were established on the Hofmann Forest. School activities slowed due to military duty.

1943-44. Professor Chaffaut was called to the army.

The McLean Forest in Hyde County was sold.

Dr. Clemens Kaufman joined the Forestry Staff. He will be in charge of Research.

The Hope Valley Forest 4 miles from Chapel Hill containing 1750 acres was acquired.

Grazing experiments established on the Prison Farm Tract.

G. E. Jackson resigned as Supervisor of the Hofmann Forest. J. M. Stingley was appointed Supervisor. The Forestry School at a stand still with two graduating.

1944-45. No forestry courses taught. Faculty members on research. Dry kiln being constructed.

1945-46. Weather Station established on Hofmann Forest. Registration began to increase again.

1946-47. Slabs and Edgings Publication was reviewed. Forest School back to normal.

1947-48. Scholarship for Forestry established by Ralph K. Cox Paper Company. 263 students including 218 veterans.

Dr. J. V. Hofmann retired as Director of The Division of Forestry and continued as Manager and Treasurer of the North Carolina Forestry Foundation.

ACTIVITIES AND PROGRESS 1948-1961

By R. J. Preston, Dean

During his 19 years as Director of the Division of Forestry, up to his retirement in the spring of 1948, Dr. J. V. Hofmann had developed one of the large and respected forestry programs in the country. This report will highlight year by year the major activities and achievements since July 1, 1948.

1948-49. Dr. R. J. Preston appointed Director of the Division of Forestry. Professor Roy Carter joined faculty and programs in Wood Technology and Lumber Products Merchandising were initiated. Hofmann Student Loan Fund established. Student enrollment totaled 255 including three graduate students with 198 of these being veterans.

1949-50. Dr. J. S. Bethel joined staff. \$774,000 appropriated for new Forestry-Horticulture building and \$10,000 for Wood Technology equipment. R. W. Graeber retired as Extension Forester and was succeeded by J. L. Gray. Cooperative work-school student programs developed with T. V. A., U. S. F. S. and industry, the first in the forestry field. Short course programs initiated. Student enrollment totalled 244, including six graduate students.

1950-51. School of Forestry established as one of six degree granting schools at State College. New building under construction with addition to appropriation raising total to \$845,000. All forestry schools subjected to accreditation and the programs at State College fully accredited. Dr. C. M. Kaufman resigned to become Director of the School of Forestry at the University of Florida. Miss Hazel Adams joins staff. Colin Spencer receives first honorary degree awarded at N. C. State in area of forestry.

1951-52. Dr. T. E. Maki joins staff to head program in Forest Management. Steps taken to initiate a program in Pulp and Paper. Professor Carter elected President of the Forest Products Research Society. Dr. Carl Alwin Schenck, founder of the Biltmore Forest School, received honorary Doctor of Science degree. Student enrollment totalled 203 including 14 graduate students.

1952-53. Kilgore Hall occupied following delays caused by the Korean War. Program in Pulp and Paper established with the Southern Regional Education Board recognizing it as a regional program and ten pulp and paper companies providing financial support. Professor C. E. Libby employed to head program and \$200,000 appropriated for Pulp and Paper buildings. Dr. R. C. Bryant joins management faculty, bringing number of faculty to ten. Advisory committees organized and first annual meetings held. Inman "Cap" Eldridge receives honorary degree. College changes to semester system.

1953-54. Twenty-fifth anniversary of forestry education at N. C. State. Kilgore Hall dedicated in December. A. C. Barefoot, our first Wood Technology alumnus (1950), joins staff as Wood Technologist. Reuben B. Robertson Distinguished Professorship established with Professor C. E. Libby as first recipient. School granted authority to award the Ph.D. degree. Student enrollment totalled 197 including 12 graduate students. School alumni total 588. Walter J. Damtoft receives honorary degree.

1954-55. Construction started on Pulp and Paper Laboratory with additional funds raising total for building to \$225,000. Pulp and Paper Foundation incorporated February 4, 1955, with fifty-four company members. A. C. Barefoot promoted to Assistant Professor. R. G. Hitchings appointed Assistant Professor of Pulp and Paper and A. C. Hart appointed Wood Technologist. George W. Smith appointed Assistant Extension Forester. Mrs. Frances Liles joins staff. Mountain camp at Wayah Bald established through lease with U. S. Forest Service. E. L. Demmon, Director of the Southeastern Forest Experiment Station, awarded honorary Doctor of Science degree.

1955-56. Carl Alwin Schenck Distinguished Professorship established with Dr. T. E. Make as first recipient. Enrollment totalled 232 with 8 graduate students. Fifty-five companies and 76 individuals now members of the Pulp and Paper Foundation with annual budget for School of \$50,000. Equipment gifts have been received with total value of about \$100,000.

1956-57. \$250,000 appropriated for Wood Products Laboratory building, \$127,000 for pulp and paper equipment, and \$18,500 for greenhouse. Pulp and Paper Laboratory in use. Seventy companies now members of Pulp and Paper Foundation. H. D. Cook joins faculty as Assistant Professor of Pulp and Paper Technology. Cooperative program in forest genetics research initiated with eleven pulp and paper companies giving support and with Dr. B. J. Zobel appointed Associate Professor to head program and

R. L. McElwee appointed Liaison Geneticist. Professor Wyman retired July 1, 1956, after twenty-two years on the faculty and Dr. C. A. Hart promoted to Assistant Professor after receiving the first earned Ph.D. in the School. Mr. Everett Morgan employed as maintenance superintendent. Professor G. K. Slocum promoted to Professor in recognition of 25 years of inspiring teaching. Carl Alwin Schenck Memorial Forest dedicated April 26, Biltmore Scholarships endowed and Biltmore Library collection initiated. Elwood L. Demmon Research Award established. Forty-one students received scholarships.

1957-58. Long range program for growth and development of School prepared. Dedication of Reuben B. Robertson Laboratory of Pulp and Paper Technology on October 25. R. J. Thomas appointed Assistant Professor of Wood Technology and R. C. Gilmore made Superintendent of Wood Products Laboratory. Dr. Bethel serves as Acting Dean of Graduate School of the College. Expanded wood products contractual research program initiated. Faculty numbers 16, student body 317, with 73 on scholarships and 21 graduate students.

1958-59. Tragic death of Professor George K. Slocum. Slocum Memorial Work Scholarships established. Growth requires administrative changes with establishment of Department of Forest Management under Dr. Maki and Department of Wood Products under Dr. Bethel. Forestry Extension officially becomes part of School program with two sections established under Extension Forester, J. L. Gray, W. M. Keller heading Forest Management Section and G. W. Smith Wood Products Section. F. E. Whitfield granted leave for graduate study on Richardson Foundation Fellowship. \$112,000 appropriated for wood products equipment. Honors programs initiated. Dr. Bethel granted leave to serve with National Science Foundation. F. X. Schumacher receives honorary Doctor of Science degree.

1959-60. Slocum Memorial Area dedicated on Hill Forest November 7. Brandon P. Hodges Wood Products Laboratory dedicated May 25. Dr. A. J. Stamm appointed Associate Professor of Wood Products; Dr. J. O. Lammi appointed Professor of Forest Economics; Dr. T. O. Perry appointed Associate Professor of Forest Genetics; J. T. Rice appointed Instructor in Wood Products to replace Dr. Barefoot, who was granted leave for an I. C. A. program in Pakistan; P. J. Dyson and A. T. Davison serve as Visiting Lecturers; W. E. Keppler appointed Wood Products Extension Specialist; E. G. Ruckdeschel appointed Pulp and Paper Laboratory Superintendent. Professor Libby retired and Dr. Bethel resigned after making great contributions to programs of School. Dr. Zobel promoted to Professor and Dr. Hart and Professor Hitchings promoted to Associate Professors. R. S. Douglass and W. M. Keller granted leave for graduate study on Richardson Foundation Fellowships. Grants and contracts received during year exceed \$335,000 including funds for Institute of Forest Biology, two National Science Foundation research grants, and utilization education project with Extension Service. Student enrollment totalled 439, with 103 receiving scholarship aid and 32 being graduate students. Alumni number 929.

1960-61. Institute of Forest Biology held during summer. Funds requested for new forestry building. W. E. Keppler succeeds G. W. Smith who was promoted to Associate Director of Extension Service. W. T. Huxster appointed to succeed Keppler. Dr. Karl Sax appointed Visiting Professor of

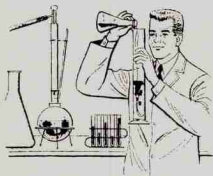
Genetics. C. G. Landes appointed Assistant Professor of Pulp and Paper. Dr. Stamm promoted to full professor. J. L. Gray and E. M. Jones granted leave for graduate study on Richardson Foundation Fellowships. Teaching and research faculty numbers 20, extension faculty 12, and other staff member 14. The undergraduate enrollment for the Spring semester totals 369.

The twelve years since 1948 have seen much growth and progress. To summarize, during this period the School has:

1. Acquired a large and distinguished faculty.
2. Developed sound and farsighted educational programs which stress basic sciences and include respected graduate and honors programs.
3. Built up a large student body in which quality is increasingly improving through generous scholarship support and rising standards of academic excellence.
4. Organized a coordinated program embracing teaching, research, and extension, which has been widely recognized for its excellence and leadership.
5. Secured the interest and active support of all those it is serving to an unprecedented extent.
6. Developed fine facilities and equipment necessary for successful, high-level programs.

Ralph Waldo Emerson—Nothing great was ever achieved without enthusiasm.

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THE HOFMANN FOREST REPORT

By H. V. Hofmann, Manager
North Carolina Forestry Foundation

The development program has continued on the forest by constructing canals and roads. Three drag lines are operating every day which should complete the major drainage program during this year. There is still one large block on the north side of the Quaker Bridge Road, which will require roads and canals.

The drilling for oil was continued last spring with rather encouraging results but no oil has been found. Three additional wells were drilled. The operators expect to be back to continue the explorations this spring. The fire seasons during the past year have been about the same as other years but there were no losses on the forest. The detection system and available equipment have been the factors which have prevented fires on the forest. Timber is being cut on block ten and canal construction will begin immediately. The forest has developed to the point where results from drainage and fire protection are becoming more and more evident. The plantations at the headquarters are due for a second thinning. Cutting in other areas is removing the mature trees and some areas are being thinned. The hunting program was fairly successful this season although deer were not as plentiful as in former years. Some areas have been burned through controlled burning, although the season has not been favorable for this type of work. In the pocosin type controlled burning can be used very successfully, after the first burn. Areas that have not been burned are so dense, it is difficult to find a period when a fire will travel in these areas without being a destructive fire.

An area, that was not restocking after a fire and cutting, has been disked and will be planted this year. The small experimental plantings in the open area along the Quaker Bridge Road are vigorous and growing very well.

A soil map is nearing completion for the entire forest. It will be completed this spring. A brush map has been completed for the forest including volumes of brush up to twenty tons per acre. These heavily stocked stands are the danger points in the severe fire seasons. A complete timber stand map has been prepared for the forest in its present condition.

This will be a good comparison to the map of the forest showing the timber stand at the time the forest was acquired. A thirty year report on the forest is being prepared that will present the entire history and development of the forest.

R. C. Bryant—Uh . . . I don't remember . . . uh . . . seeing any stands . . . uh . . . of pure Short Leaf Pine with no regeneration.

David Crockett—I leave this rule for others when I'm dead, be always sure you're right—then go ahead.

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Fraternity Director 2 (all
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Forestry Club, AFA,
SAF, Xi Sigma Pi, Pine-
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Sports, Conclave Comm.,
Advisor to Faculty and
Staff, Envy of all the
Girls' Schools, etc. etc.,
etc.

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Charleston, S. C.
Pulp & Paper Tech.
Sigma Nu Frat.; Inter-
fraternity Council; Four-
drinier Society; Tech-
nician Editorial Staff;
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Henry Wheeler Shaw—Advice is a drug in the market; the supply always exceeds the demand.



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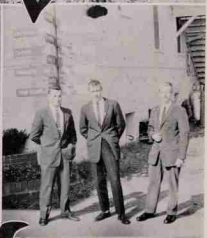
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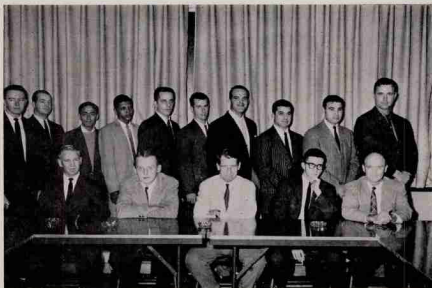
THE FORESTRY CLUB

By Paul Sykes

As has been the case in the past, the club has had a rather diversified array of programs through the year. These programs, on forestry and related fields, have been both educational and interesting. This year there were also a number of joint programs with the other organizations within the School of Forestry.

The Club's activities got off to a fast start by winning an award for the float in the Homecoming Parade. This was soon followed by a booth, consisting of a miniature sawmill borrowed from the U. S. Forest Service, at the North Carolina State Fair. The Annual Rolleo at the Hill Forest was a big success. As usual, new members were brought into the Club at the conclusion of this colorful event. During Christmas, several of the members sold some of the Club's redcedars for Yule Trees, which gave a much needed boost to the treasury. The Loggers' Brawl, as usual, was a swinging good time. In mid-spring, the Club sent a strong team down to the Annual Conclave, which was held at Camp Blanding, Kingsley, Florida. The C. U. Carnival Booth showed the usual imagination of the new members. Thus, the Club's activities, out side of the bi-weekly meetings, were concluded for the year.

Benjamin Franklin—The use of money is all the advantage there is in having money.



FOREST PRODUCTS RESEARCH SOCIETY

By J. P. Economou

The F.P.R.S. Student Chapter was first formed at North Carolina State College in 1951. During the past nine years the student chapter has grown under the able guidance of Professor Roy M. Carter, past president of the National Forest Products Research Society.

The goal of the student chapter parallels that of the National Society—"to aid in the exchange of information and latest developments in the field of forest products". Prominent men in their particular field of forestry are asked to speak and give advice as to their field of work. By having such a program it helps to broaden the members interest and increase their knowledge so that they will know more than their own particular field of specialty.

The ultimate goal is to be recognized in affiliation with the National Society. In the past the National Forest Products Research Society Executives approved that organizations with similar ideas on various college campuses would be associated with the National Society on a junior basis. As of this date the N. C. State College Chapter of the F.P.R.S. is the first and only student chapter to be recognized by the National Society.

Officers—1960-61

President—Jim Hastings
Vice President—Morris Jones

Secretary—James Burke
Treasurer—Phillip Hogan



XI SIGMA PI MU CHAPTER—1960-61

By Ed Langston '61.

Mu Chapter of Xi Sigma Pi, National Forestry Honor Fraternity, was installed on April 20, 1940. Since that time it has undertaken various activities at North Carolina State College to better the School of Forestry and the professions connected with forestry.

All experiment stations send their publications to Mu Chapter. These are kept in the lounge for the use of all interested persons. Xi Sigma Pi awards an axe to the sophomore who attained the highest average as a freshman in the School of Forestry. Noted speakers within the profession are brought to the campus by Mu Chapter.

The most important function of Xi Sigma Pi is to recognize those students who show promise of becoming leaders in their profession and to promote better relations among students, faculty, the School of Forestry, and North Carolina State College.

Officers—1960-61

Forester—J. O. Baker

Secretary-Fiscal Agent—E. H. Langston

Associate Forester—R. D. Lambert

Ranger—P. W. Sykes

Executive Council Representative—Dr. R. C. Bryant



THE FOURDRINIER SOCIETY

By Neil Carter

The Fourdrinier Society got off to a good start this year after having been left with no holdover organization from last year. The first meeting was held in October and was mainly a reorganization meeting. The officers that were elected are as follows: President—Roy Avera, Vice President—Bill Freuler, Treasurer—Bobby Deaton, and Secretary—Charles Dunning. Professors H. D. Cook and R. G. Hitchings were selected as faculty advisors.

The first few meetings brought about changes in the constitution and many plans for the future. The Society decided to sponsor a basketball team which entered the open league. Plans were made for programs and parties to be sponsored by the Society.

In December, a party was held at Garner's Cabin and everyone enjoyed themselves very much. The three programs which the Society has put on were also big successes. Talks were given by Mr. Keith Forbes, salesman for Lindsay Wire Weaving Company, Mr. Dusty Rhodes, Vice President of Huych Felt Company, and Professor H. D. Cook, professor in the School of Forestry.

Other programs and parties are planned for later in this year including the election of new officers for next year. It is sincerely hoped by all members of the Pulp and Paper Department that the Fourdrinier Society will continue to be an active organization in the School of Forestry.



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Ed Langston, Neil Carter, Jim Economou, George Baldwin, and Abder Talli

Attention

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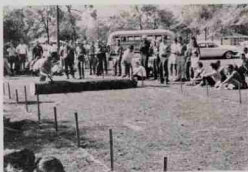
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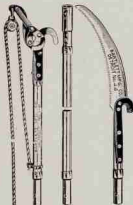
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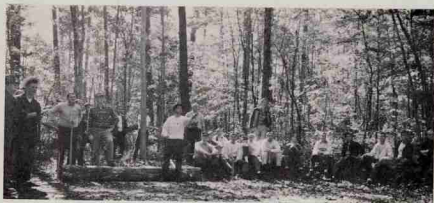
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THE ROLLEO (OR THE DAY OF RECKONING)

By Sam Mace

When I woke up in pouring sunlight and I thought, its raining not and I won't have to go. Then I thought, oh yes you will you coward. No rain or not, today was the day of the battle.

I glanced over at Ed. He was sleeping with his head flung back against the pillow. After a shower shoe I yelled, "Wake up 'roomie' now is the time for all good men to come to the aid of their class." "Let's go down stairs and get a doughnut and a root beer before we go to Hill Forest." He responded with a hearty 'hi-o-silver' and a glittering blade. As we wheeled along U. S. Route #70 I captured some of the autumn beauty on film.

When we arrived one of the enemy told us where not to hitch Ed's Chevy. After dismounting we noticed that the grounds were all laid out with leaves of various shapes; pledges roamed around with their ivy-league tomy hawks; and the events committee had performed their function well. We particularly noticed that the victuals had not arrived and that two girls of the same sex were present to help with the cause.

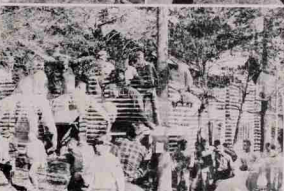
The first skirmish was a modified version of the children's game of see-sawing—we watched while Ken Jefferies ("Kero") and Bill Ball sawed. To say the least they fared well because the best that Harold Blanchard and Sherwin Odium, sophomores, and Bill Craig and Fred Liverman, juniors, could do was to take second and third place respectively.

For the knife throwing contest 'roomie', Ed Langston a fellow senior, came "threw" like Jim Bowie III when his glittering blade out stuck Al Graves' (Soph.) knife. When questioned after the event about the secret Ed revealed, 'I was inspired by one of the *Magnificent Seven*.'

With two firsts in the poke for the seniors Worth Kendall stepped up to the cant with a bow and proceeded to whip out a snappy little tune, "Just Twenty-five Seconds", to the tone of another first for the seniors. His less



ROLLEO = 1960



musically inclined competitors Blake Ballard (Soph.) and Graham Moore (Jr.) picked second and third class numbers respectively.

The bait casting event was different from the preceding events. It wasn't how one held his mouth or who inspired him that counted, but how well the casting rig worked when his turn came. Fred Liverman (Jr.) and Henry Cunningham (Sr.) tied for first place and J. C. Thomas (Soph.) and Parks Low (Fresh.) tied for second not once but twice, and since time did not allow a third run-off of the ties, it was concluded that foresters make rather good fishermen.

Axe-throwing and speed-chopping were two skirmishes in which the Senior class didn't gain very many points. Axe-throwing won the Freshman class five points when Dick Bartelt took first position. Al Graves picked up three points for the sophomores for second place and Joel Artman gained another point for the juniors when he axed Howard Scheuenbrand from third position. The outcome of the speed-chopping contest (endurance test for some) put one more point on the scoreboard for the seniors when Howard out-endured the freshman contestant. Chandler Eakes (Soph.) and Bill Craig (Jr.) went at this event like a herd of beavers, but in the end Bill's summer camp experience was overwhelming and he took the five points for first place by one second.

The equipment for the next contest consisted of a large stick of wood in the form of a truncated cone and two probes or cant hooks. The object of the event was to roll the stick along the ground, keeping inbounds, for a considerable distance and then back again. Two seniors, Mitch Gurganus and Paul Sykes showed their ability at this and rolled up another first place. Their less able sophomore opponents, Chandler Eakes and Harold Blanchard, and junior opponents Bill Craig and Ed. McMillan rolled second and third place scores respectively.

The beard-growing contest belonged exclusively to Bill Dabney. "Like after several weeks, man, that out-of-blades bit soon became a habit, and one can't tell when a troglodytic fade will be handy." But Bill must have had the Rolleo in mind because later that day back on campus I saw Bill in the C.U. and hardly recognized him.

For the next two contests the classes were divided—Junior-Senior and Freshman-Sophomore. In the chain-throwing exhibition Bill Craig (Jr.) won over Mitch Gurganus (Sr.). And sophomore Carlyle Franklin won over freshman Charlie Shaefer in the rifle shooting event.

Out of the next six Rolleo games the seniors claimed three thirds, two seconds and one first. Don Blizzard took the first place score when he proved that he could spit tobacco as well as political propaganda. Chandler Eakes (Soph.) placed second and Bob Borne (Fresh.) placed third in this event. Bill Ball and Joe Baker took the second place positions in the pole-climbi and fire-fighting contests respectively. Dick Bartelt (Fresh.) and Roy Broughton (Jr.) took the first place position and Bob BURGESS (Jr.) and Tom Burks (Fresh.) captured third place positions in the latter two events. The three third places were in the tug-of-war contest, the volleyball game, and the rope climbing exhibition. The juniors placed first in the tug-of-war and the volleyball games. And the freshmen captured second in the tug-of-war and the sophomores gained three points for second place in the volleyball play-off game. Charles Mercer climbed the rope for the freshmen and bagged

the third first for them. Bob Burgess picked up three points for the juniors and it was Jim Lockwood who added another point to the seniors overall winning score.

The only event of the day in which all of those present participated was the mid-day Bar-B-Q meal. And for this event a hand is extended to Dan Grimsley, Louie Eckstein, and John Waters.

After the informal part of the 1960 Rolleo the freshmen and others wishing to join the Forestry Club were subjected to the formal part. As customary the initiation committee was comprised of very original thinking men. Although they were not asked what brand they smoked any of those initiated would have said "Viceroy." Well when all was said and done the whole crew packed into cars and buses and journeyed back to Raleigh. And if asked, I am sure that all who were there could truthfully say that the 1960 Rolleo was worth writing home about.

Grantland Rice—When the One Great Scorer comes to write against your name—He mark—not that you won or lost—but how you played the game.



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SUMMER CAMP TEN WEEKS OF WORK, WINE, AND WOMEN

By George Baldwin

Summer Camp at Hill Forest started off as usual last summer—everyone was gun-ho. Then the faculty showed up. They began to organize the place by assigning jobs which consisted of log-carrying, wood-cutting, cleaning up, brush-cutting, etc. Everybody, or almost everybody, came up with the same idea when this started, that even talking about such things was too much work. This didn't bother the faculty at all. They kept right on organizing work crews, most of which immediately became disorganized or so *highly* organized that no one bothered to do any work.

It became apparent from the start that Hill Forest was something close to paradise. The temperature never came under 120 degrees except at night when it was never above zero. There were enough red-bugs, mosquitoes, and copperheads to populate the world, and everything within forty miles was completely covered with Poison Ivy. But, despite these hardships, there was no griping, since everyone either became immune to such trifles or was sent down the road mumbling to himself by the top dog at camp, Burner Bryant.

By the time everyone had acquired the knack of appearing busy while doing absolutely nothing, the professors started things which they called classes. Then, when all the boys had become accustomed to getting their night's sleep in a two hour class (which, by the way, is quite a delicate maneuver), they came up with Silviculture, Dendrology, Mensuration, a clearing

project, a couple of mapping projects, and trips to five hundred identical sawmills.

Things were not always bad along the supposedly clear, but eternally muddy Flat River, though: Dr. Lammi gave quite a few people a passing grade on their maps. Barney always managed to have something to eat at mealtimes, and he was a genius with a brown bag, being the only cook in the world who could prepare a sack lunch which absolutely nothing would eat. There were also horseshoe games, softball games, and most important, poker games with odd names such as "Red Dog", "High Clyde", etc. Another little past time that made life bearable was trips to the Lodge. It was at the Lodge that one future Forester put a dime in the cigarette machine and yelled, "Which record you wanna hear, "Red Eye", or "Salty Dog"?" Then there were some interesting incidents such as the night Dr. Perry was sprayed with cold water, and the day a couple of the boys borrowed the "deuce and a half" and were headed off by one of the faculty just as they were about to unload the refreshments. Needless to say, both guys completely forgot to mention the fact that they were hauling anything but water.



After seven weeks of such interesting incidents, we had finals. The night before, everybody played poker all night. They were brushing up, just in case there were a few questions on dealing off the bottom of the exams. After the finals, which incidentally, were not on poker playing so the majority flunked, the faculty organized every kind of work detail conceivable, including a couple of details who were supposed to do the work the work details didn't do, and we loaded up for the mountains of Western North Carolina.



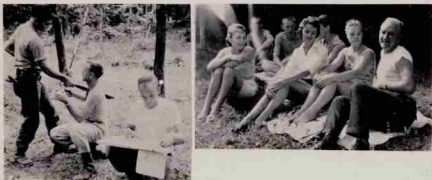
As soon as everyone was settled in the sheds in Wayah Valley, Barney broke out the sack lunches, and we visited another five hundred sawmills, a couple of which were actually different—they made paper instead of sawing timber.



Dr. Miller saw his chance, and walked everybody's legs off on "Dendro" trips while Dr. Perry dreamed up little sidelights such as a five mile hike down Wayah Bald, while Mr. Carter organized more trips to more sawmills.

One thing was discovered while we were at Wayah Depot that made the whole trip worth while. Those mountains were full of women. Naturally we all went wild as soon as this was found out. Some of the boys even cut out their nightly trips to Scaley where they had the happiness canned.

After a few weeks of nothing but women, sawmills, women, reports, and women, the professors were pretty well fed up. They gave us finals on some things no one had dreamed of and closed up summer camp despite the fact that the women were still there.



Horace Greeley—The illusion that times that were are better than those are, has probably pervaded all ages.

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SCHOLARSHIPS AND AWARDS

Again this year several students of the School of Forestry have received scholarships and financial aid from various sources. On behalf of all those who received this aid and as editor of the PINETUM I want to say thank you—the industries and other groups interested in forestry education—for in most cases without this aid our presence at N. C. State College would not be possible.

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THE FORESTRY EXTENSION PROGRAM

By Walter M. Keller, Acting,
In Charge of Forestry Extension

In last year's *Pinetum* John Gray presented in detail the "New Look" in the Extension Forestry Department. There is no need to go over the same thing here again this year; so I will merely attempt to bring you up to date on what has happened during the past twelve months. We had several personnel changes and administrative changes, and I will briefly point these out.

On July 1, 1960, George W. Smith (B.S. '48, M.F. '58) head of the Wood Products Extension Section, was appointed as Assistant Director of the Agricultural Extension Service. The Agricultural Extension Service employs over 700 people in North Carolina, and we are happy to see a forester move up so high in the administrative circles of such a large organization. Promotions such as this help strengthen the professional standing of foresters and forestry.

W. E. (Bill) Keppler was moved up to replace George as head of the Wood Products Extension Section. Bill had been working on a special AMA contract with us and was well qualified to take over the job as head of this section.

W. T. Huxster, Jr. (B.S. Wood Tech '55) who had just completed his course work for an M.S. in June, 1960, was immediately hired to take over Keppler's work on the AMA contract. Bill Huxster had already tentatively accepted a job offer from another Southern university, and we were happy when he chose to come with us instead.

In the Forest Management Extension Section we had several changes take place. On October 1, 1960, we officially reassigned our management foresters. Up until this time our staff members had been serving as general forestry specialists, but the demand for more assistance in certain specific-problem areas of forestry necessitated the assigning of each staff man to specialize in one of these problem areas. This specialization is closely tied to the forest-cover types of the state, which do not coincide with the present Extension administrative districts. To reconcile these problems, new assignments, both geographic and problem-wise, have been made within the department. These assignments, both geographic and problem-wise, are as follows:

1. W. M. Stanton—North Coastal area—no state-wide problem assignment until he completes graduate program
2. J. C. Jones—Mid-Coastal area—no state-wide problem assignment until he completes graduate program.
3. R. S. Douglass—South Coastal area—state-wide assignment in planting, forest soils, and site preparation.
4. J. H. Gilliam—North Piedmont area—state-wide assignment in Christmas-tree production.
5. F. E. Whitfield—South Piedmont area—state-wide assignment in forest insects and diseases.
6. L. A. Hampton—Mountain area—no state-wide assignment, but is assisting Gilliam in Christmas-tree work at present.

Our graduate training program is continuing, with two men going on study leave each year. Ross Douglass and Walt Keller returned from Duke University on September 1, 1960, and John Gray and Ed Jones departed about the same time. John Gray is at Duke University working on a doctorate in forest economics; and Ed Jones is in Ruston, Louisiana, at Louisiana Polytech working on a problem in the management of bottomland hardwoods. At latest report, both men are doing well—scholastically, that is!

So went the Extension Forestry program during the past year!

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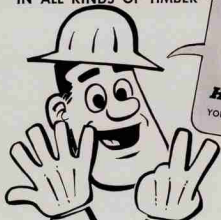
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SOME COMMENTS ON INTERNATIONAL FORESTRY

By J. O. Lammi

The slogan of "hunt, fish, trap" and the photograph of a Stetson-wearing he-man on a horse, with a forested mountain in the background, have served to attract several generations of young Americans into the profession of forestry. To a lesser extent, the glamor and romance promised by full-color travel advertisements have caused the present generation of foresters to look around at the possibilities of joining a crusade to forestry into the far-away corners of the Globe (think of it: tree planting in the templed hills of Thailand, timber felling in the canyons of the Himalayas, mechanizing the elephant operations of Burma, timber cruising in Tahiti. . . .).

Admittedly the glamor is there, but there are also the unglamorous aspects, just as there were to the ranger's life in the Western mountains. A few first-hand comments on international forestry may be of interest to *Pinetum* readers before they embark to range these fascinating lands.

Leaving aside the fellowships and other study programs, foresters are employed for international service in either *bilateral* or *multilateral* programs. The former are organized through agreements between two countries, for example the United States and Iran, and are coordinated in this country (the U. S.) by the International Cooperation Administration (ICA). The bilateral programs offer good job opportunities for Americans: there is a great need for a variety of forestry skills, U. S. Civil Service right receive full protection, salaries and allowances can be attractive, employment arrangements can be easily negotiated, etc.

The multilateral programs, toward which the present comments are mainly directed, are administered by international organizations that have a broader base of country membership. The largest employer of foresters in this group is the Food and Agriculture Organization of the United Nations (FAO) but a few foresters also serve in some of the United Nations regional economic commissions and the new "common market" organizations, with their industrial development groups or as advisers, statisticians or other specialists. A detailed description of the work of the FAO Division of Forestry and Forest Products is given in its quarterly publication *Unasylva*, volume 11 number 2, 1957.

Forestry work in these organizations may be grouped into three general types: (1) meetings, which must be prepared for, guided and reported upon, (2) publications, for which data are collected and compiled, and (3) technical advice to individuals and governments. The work of short-term personnel falls mostly into the latter group and includes, for example, the carrying out of surveys and the preparation of comprehensive technical reports.

The recruitment of foresters is based primarily on their apparent technical competence in a specialized field such as engineering, industrial planning and operations, silviculture, forest management, economics, etc. The men usually selected are therefore mature and experienced; the chances for the recent graduate to find employment are correspondingly reduced.

The qualifications that are most important to the international forester are generally the same as for any other position of responsibility. The first

and foremost can be listed as broad training and experience that has been followed by some specialization. As a generalist the forester can see how his work fits into the overall needs of the country or situation with which he is working; as a specialist he will be able to carry out his particular specialty to the extent called for by the needs.

A very important personal attribute is adaptability. The forester must be able to adjust to strange environments, to different mentalities and languages and to new and sometimes disagreeable ways of doing things. He should know his limitations and realize that he is not the final or even the best authority in his field. Forestry is an art and the results of the practices that are recommended cannot always be accurately predicted, therefore there is often room for differences of opinion and for argument. Full meeting of minds is especially difficult in international forestry—the differences in background, viewpoint and language may leave gaps in understanding that can lead to unexpected results or even to failures for projects ostensibly developed in an atmosphere of goodwill.

The international forester should have the ability to think and to write—much of his work is advising and reporting. Training in journalism and English composition will be of value. Ability to speak clearly is also of some importance, and fluency in some foreign language is desirable. The main international languages in forestry are English, French and Spanish. Considerable use is also made of German and Russian and it is helpful to know some other languages such as Arabic, Dutch, Finnish, Italian, Portuguese, Swahili, etc.

The main attraction of international forestry may be the travel that the forester and his family can enjoy, but there are also other advantages; the contacts with professional colleagues from various parts of the World, the chance to see forests and forest industries in new situations and under different kinds and intensities of management, and, finally, the access to first-hand reports which may never reach the outside public. Many will find satisfaction in the knowledge that the work being done is of great importance with the likelihood that it may lead to profound economic and social improvements. It is certain that the forester's appreciation of his profession will be enhanced and his personal outlook broadened.

Now to look at the dark side. The darkest in many places is the housing. The living quarters, whether houses, apartments or hotel rooms, are often relatively primitive and overpriced—admittedly Americans are spoiled for foreign living by the conveniences that are part of everyday life at home. Some of the difficulties presented by inconvenient housing, by problems of shopping and by the barrier of language can be overcome, but, unfortunately, some of these difficulties remain to haunt day-to-day living. In some localities the school facilities with respect to language, years of available study and courses offered, may be limited or non-existent; libraries may be inadequate, and facilities as well as time for forester's personal study and research may be unavailable.

Professional reputations, good or bad, can seldom be built up because most of the work is anonymous—publications remain a part of the output of the staff or "secretariat". In many instances, the only solid achievement may be the awakening of interest among local authorities with some expectations of future improvement in the forestry situation. With short assignments and

primitive working conditions, the forester may find that his accomplishments are at a rather low professional level.

Careful weighing of the above "pros and cons" will, nevertheless, lead to the conclusion that a foreign assignment is worthwhile. The opportunities for career jobs are few but good possibilities exist both in bilateral and multilateral programs for short-term technical assistance appointments. It can be an interesting and adventuresome year—if not in Tahiti perhaps in Afghanistan, Bhutan, Somalia, Zanzibar. . . .

James Russell Lowell—The foolish and the dead alone never change their opinion.

REVISION OF THE SPRING SEMESTER

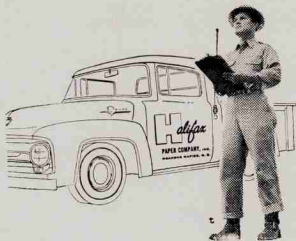
by The Editor

Despite the many objections the regular eight weeks of spring camp were omitted for appropriate reasons. Although the exact reason may not be known (to some) it may be concluded that someone in the "class of '60" finally came through with a suitable management plan for the Hofmann Forest. The approximate number of semester forestry credits remained the same (17), but since we all remained on campus it was possible to slip in an additional course or two.

During the first part of the semester those eight-hour Tuesday and Thursday labs were spent roaming over and around Quail Roost Farm presently owned by Mr. Watts Hill. While these hikes were taking place a few people took some volume measurements which later could be used in a management plan for Quail Roost. Some people even used instruments.

From a talk with Mr. Hill we learned that those trees with limbs six inches apart and cones three inches apart were not wanted. He also stated a negative opinion of multiflora rose. But despite the fact he didn't care for anything that was thought possible to grow on Quail Roost (even chickens), he expressed an earnest desire to hear or read what we thought would be suitable forest practices to be used on his 950 acres of woodland. In turn for our labors he invited the group to see the Research Triangle Project.

For the latter part of the semester on those slightly long eight-hour labs we toured the rest of North Carolina, the majority of South Carolina, and hoped to see some of Virginia. The classes before us will probably say we missed the highlight of our forestry education by not spending some time on the Hofmann Forest, but that is just a matter of opinion.



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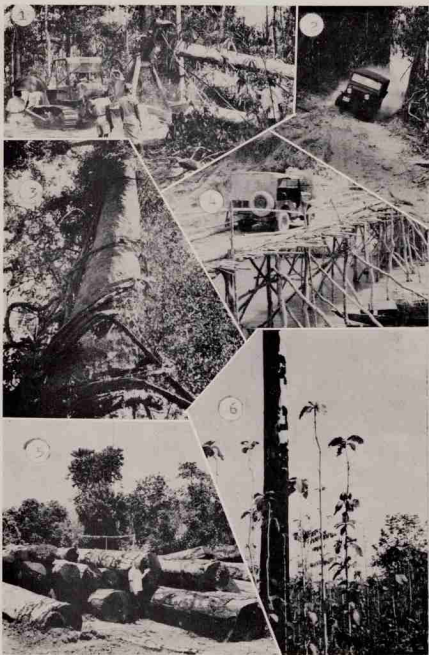
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STILL IN PAKISTAN OR ADVENTURE IN ASIAN WOOD

By A. C. Barefoot

Tigers, cobras, elephants, sal, teak! Romantic forestry of the days of British rule in Asia. The India of today contains most of the tigers, cobras and sal; Burma grows the most elephants and the best teak; Pakistan has a smattering of all, but not enough of anyone of them to solve its forestry and wood problems. The supply of wood never satisfies the basic needs of Pakistan let alone the demand for "luxury" applications in construction work.

Pakistan annually imports Douglas fir cross-ties, (and metal ones too), pencil woods, hardboards and teak timbers. Except in furniture, doors, and windows, wood is rarely seen in the floors or walls of the offices and houses of either West or East Pakistan. In the main local wood is utilized for cross-ties, tea-chest plywood, railway-car construction lumber, furniture and trim lumber, and for fuel.

In the heavily populated urban areas, constant attention is required in maintaining a supply of wood for cooking. But due to uneconomical transportation and handling, foresters can not utilize this situation for moving excess fuelwood from logging areas. Wood is available, but is burnt in clearing the jungle for replanting following the extraction of timber trees.

The scarcity of wood of all forms in the markets reflects not only the inadequacy of a system for extracting the mature trees standing in the jungle, but more importantly, the basically limited forest resources of the nation.

On a per capita basis, Pakistan virtually has no wood; but that which it does have can contribute significantly to the economic independence of the nation.

Since 1947 and partition of old India into Pakistan and today's India, the increase in utilization of indigenous species in the wood-base industries has been almost inexpressibly great as a percentage since only small quantities of local weed were converted by village people prior to that time. Before 1947 the area now included in Pakistan depended upon the timber producing forest of Burma and India for its supplies of teak for fine lumber and sal for durable cross-ties. That situation abruptly ceased when Britain granted freedom to its colonies of Southeast Asia; and simultaneously, the existing trade channels were disrupted within the subcontinent. Pakistan was forced, perhaps unwillingly, into wider utilization of its local tropical

(1) Logging operation near Bagaihat, Chittagong Hill tracts; (2) Logging road in dry season (and logging season); (3) A jungle monolith—a Dipterocarp; (4) Forest bridge of saplings and bamboo; (5) Logs and Barefoot; (6) Young teak plantation (two or three years).

species to replace the revered teak and sal. Gurjan, civit, jam, champa, kadam, raktan, mango, chapalish, passur, korai, sundri, gewa and some 175-200 more hardwood species are now the source of raw materials utilized in the expanding wood industries. Gewa from the Sunderbands tidal forest is the source of fibers for a sparkling new Newsprint Mill.

Bamboo, the elite building material of all time in Asia, forms the raw material for wrapping and writing papers manufactured in another new paper mill. Large tracts of virgin forest are classified as pure bamboo stands. (As many of you may recall from news reports circulated about the rat invasions of Asia, in 1959 bamboo flowered over wide areas for the first time since early in the 1900's. After flowering the stems die; as a result, bamboo will be in short supply for two or three years. The bamboo mill is searching for a timber replacement). The United States and Columbo Aid Plans have been instrumental in increasing the extraction and utilization of the wood resources standing in Pakistan's forest by supporting the foundation of wood utilizing industries.

Logging in the jungle has retained the ancient practices involving massive elephants and manual labor while slowly trying mechanical extraction. Harvesting the beautifully large trees from the extremely hilly terrain could not be accomplished with elephants and even the abilities and economics of successfully using heavy equipment for the job were questioned. But "Cat" tractors and arches supplied by the United States through the International Cooperation Administration (ICA) have proven feasible for logging all the trees at a cost no greater than that incurred in using elephants. Pakistani loggers are now expanding their tractor fleet and are planning future expansions based on securing dollar loans from the United States.

All the evidence of increasing pressure on the forests saliently reminds foresters of the future potential for producing timber. While West Pakistan has a small wood supply which includes the only coniferous species of the nation, East Pakistan's forest lands provide the major potential timber producing lands. Even so, only 8600 of the 51,000 sq. miles of East Pakistan are classed as forest and these lands, reserved by the foresighted British foresters many years ago, constitute the major areas allotable for forest growth. The remainder of the area is primarily for producing agricultural commodities. On 3500 of the 8600 sq. miles, tribal rights and privileges govern land use; only 5100 sq. miles are directly under the Forest Directorate. The tribal hillmen cut, burn and plant to rice many forested acres in a system of cultivation known as juhmming. Literally mile after mile of eroded and abandoned juhmmed land now supports only thatch and grasses after having raised two or three rice crops scratched into soil between roots and stumps.

Plans for reforestation of these juhmmed areas and the logged jungle are being put into operation as fast as technical and political problems can be overcome. Significantly, species other than teak are now being planted in the hill tracts although in small quantities as compared to teak plantings. Some species of exotics, among them slash pine, are being experimentally planted, while many native species are receiving greater attention as a result of the successful utilization of these species. As an example, eight

years ago, prime civit trees of four and five feet diameter were felled and burned in the jungle as weed trees. A suggestion was made by a Pakistan forester who had visited the United States that the soft, odor-less, and light-colored hardwood be tried in manufacturing tea chest plywood; consequently, civit is now considered the premium species for this plywood and is in critically short supply. Beautiful one-piece faces of clear 4' x 8' size could be obtained easily while tea chests require plywood of about two feet square at most. Civit is being planted, needless to say.

Less than ten years ago Pakistan imported all the plywood required for the making of tea chests. Beginning in 1960, the four factories built since 1957 will produce sufficient quantities of plywood and battens to furnish the tea estates with nearly all their required 600,000 chests. Each chest consumes about 15 sq. ft. of 4 mm 3 ply material. In 1961 the factories anticipate supplying all the chests needed and in addition begin marketing commercial 4' x 8' panels and flush doors.

A West-Coast band sawmill to replace most of the pit sawing and small 2 inch bandmills is being promoted. Financing for a hardboard factory is being sought. Talk of dry kilns, a furniture factory, more plywood mills, particle-board plants and glue manufacturing operations reflect the growing importance of Pakistan's forests, limited though they may be.

The possibility for more dramatic conversions, as illustrated by the Civit example, stimulated in cooperation with the United States, the formation of the Pakistan Forest Research Laboratory in Chittagong. Under an agreement signed in 1952 with the Government of Pakistan ICA will have provided upwards of one-half million dollars for equipment, U. S. trained participants and technical advisors when ICA 'phases out' in two or three years. Without detailing completely the equipment furnished, the Chittagong Laboratory is a miniature Madison, Library books, telephone exchange (even a phone for the automatic boiler), Coe lathe, veneer drier, hot presses, barrels of glue, Marchant calculators dry kilns, conditioning chambers, testing machines, analytical balances, chemical supplies, a complete wood-working shop, metal working machinery, fourdriner paper machine, accessory digesters, chipper and other commodities have been procured by ICA and installed by the laboratory for operation.

Seven young Pakistanis with theoretical engineering, chemistry and physics background have been through one year research indoctrination programs including work at Madison and tours of wood-working plants of the entire U. S. Four additional men are programmed for U. S. training in the current years. (Rumors reaching us say that one of these men, a statistician, is at N. C. State). These men will constitute the professional research staff at the Laboratory for planning and conducting research in the utilization of tropical woods.

Eventually, the FRL's officers visualize conducting research in all the activities of Forestry from silvicultural systems to studies on the new uses of forest products. For the moment, getting the Veneer and Composite Wood Products, Wood Preservation and Chemistry, Timber Physics and Seasoning, Wood Working and Timber Engineering, and the Pulp and Paper Divisions underway is the tremendous task. Preparing plans, procuring logs, installing a steam supply and other new equipment, working

"bugs" out of the equipment and shaking down the plant facilities in general requires all the energy of the present staff.

However, technical questions are being thrust upon that staff as the following statements indicate. Extraction of timber from the hill tracts is proceeding but the wood industry is still short of known materials; substitutes are eagerly sought. Of the species burnt in the jungle, would one substitute in the manufactures of pencils for the expensive Incense Cedar Imported from the U. S.? No one knows which one of the uncounted species to try. Substantial quantities of wood are spoiled annually by insects, stain and decay on the tedious journey from standing tree to final product; can this be prevented? Large footages of lumber, veneer, and plywood are spoiled in wasteful handling procedures during and after manufacture. How do you save this material? Tables, chest and doors split after installed in the home or office. Why? Tea chests develop objectionable "odours" which taint the enclosed tea leaves. What is the source of the smell? An eager salesman proposes that a plywood factory purchase (import) polyvinyl resin as an adhesive for hot pressing. Is it O.K.? A plywood factory is ordering a new veneer drier; what is the initial moisture content of their veneer? A group of associates with plenty of rupees plan on founding a plywood factory; what machines should they order? (not U. S., they say, because they are too expensive) The strength properties of potential construction woods need determining; seasoning; veneer cutting, plywood manufacturing, basic properties, and preservation studies, life tests, durability test of plywood, pulping procedures, among others, demand immediate attention. These technical questions constitute a portion of the activities in the laboratory's daily operations and future plans.

A most important natural resource available to East Pakistan, its forest, may be converted profitably and may be successfully reproduced only if the laboratory pursues an imaginative and effective research program.

But let's return to the tigers; the man-eaters. You can lose loggers to them as Don Ellis, a forester from Sandwell Corporation, Consulting Engineers for the Khulna Paper Mill, tells it.

It seems a tiger was suspected when they missed some men and therefore they set about luring the man-eater into shooting distance.

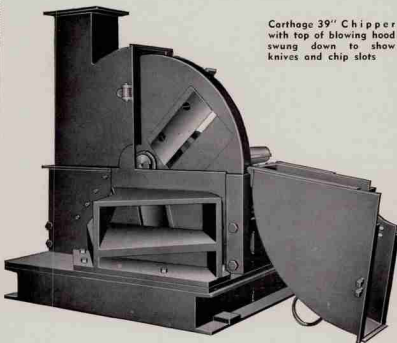
A goat was staked out as bait and Ellis with some friends retired to their machan, a platform built sufficiently high around a tree to be unreachable by the non-tree climbing tiger. Their Shikari (hunter-guide) was on a nearby machan. As the evening's quietness settled, drowsiness overtook everyone until one of Ellis's cohorts awakened to the sensation of being raked off the machan by a tiger clawing at him. In the darkness and the tiger being so near, the man could not shoulder his rifle for firing. Rather, he beat the beast on the head with the barrel, thereby forcing the man-eater away; his rifle stock clearly shows claw marks.

The guide, thoroughly awakened now, switched on his spot light and shot the goat.

That, partially, is Pakistan Forestry.

CARTHAGE 39" CLIPPER

converts WASTE into PROFIT



Carthage 39" Chipper
with top of blowing hood
swung down to show
knives and chip slots

Through intelligent forest management, including utilization of waste wood, our American commercial timber has become a crop rather than a natural resource. In spite of the tremendous demand for lumber and pulp for paper making, our timber is now in perpetual supply.

One of the most important conservation measures is the utilization of wood which was formerly wasted — such as slabs and edgings — as marketable chips for paper making. The Carthage 39" Chipper illustrated is one of a complete line of chippers which serve this important function.

Protect Our Forests Be Careful with Fires

CARTHAGE MACHINE COMPANY

CARTHAGE, NEW YORK

DENDROLOGEE

By L. Davis, H. Smith and M. Gurganus

'Twas on the Hill Forest
The 6th day of June
We met with Dr. Miller,
One hot afternoon

To go on a field trip
of dendrologeec.
He pointed out species,
for our mem'ory

There was *Acer barbatum*,
and boxelder so;
There was *Morus rubra*
and black tupelo.

Then came *Quercus alba*,
and on we did search
till down by Flat River,
we found river birch.

There was redbud and dogwood,
sourwood and gum.
Then up on the roadside
was chickasaw plum.

Viburnum dentatum,
and painted buckeye;
We saw *Quercus nigra*
and *michauxii*.

We pulled off the leaves
as we roamed thru the lands,
until some strange itch,
made us scratch at our hands.

So we asked Dr. Miller
what made this thing so.
And he said poison ivy
not *Acer ne-gun-do*.

We learned poison ivy
and told all our kin.
But on the Hill Forest
you never can win.



For as we sat down
and we start-ed to figger.
Our carcass was covered
by a bug called the chigger.

THE FUZZ FLY

One hot summer afternoon at Hill Forest, Dr. Perry and Dr. Miller were discussing the affairs of the school and forestry in general when a small gnat-like fly began to bother Dr. Perry. Several flurries of wild swats failed to move the gnat and it continued to fly around Dr. Perry's face.

Dr. Perry: Uh! Ted, Uh! . . . Actually I'm not familiar with this fly. What is it?

Dr. Miller: Oh! Uh! . . . I believe that is a Fuzz Fly.

Dr. Perry: Uh! What actually is a Fuzz Fly?

Dr. Miller: Oh. . . . That is a fly that flies around a horse's ass.

Dr. Perry: Are you calling me a 'horse's ass'?

Dr. Miller: Oh. . . . No. . . . But you can't fool a Fuzz Fly.

Free Enterprise . . . Key to Progress

In the mills and forests of the United States, free enterprise is the foundation of a healthy pulp and paper industry.

Only in an atmosphere free from unnecessary regulation can individual freedom grow.

Many students are recognizing that free enterprise assures room for professional growth.

More than 8,000 graduate foresters in the United States have chosen to cast their lot with business and industry.

BOWATERS

CALHOUN, TENNESSEE

CATAWBA, SOUTH CAROLINA

FORESTRY IN JORDAN

By A. R. Talli

About the author Mr. Talli came to Raleigh from Amman, Jordan. In Jordan as Forest Research Assistant he performed experiments in nursery culture and afforestation techniques. When asked why he came to State College he answered: "My ministry in Jordan recommended my enrollment in a good university." Mr. Talli plans to study here for two years. After receiving his M. S. Degree he will return to Jordan to continue his research work.

Historical background Nearly all the mountains in the eastern part of Jordan were covered with forests in the 19th Century. In the first great war most of these forests were clear cut by the army in order to use the wood as fuel for trains and other military purposes. This clear cutting was followed by heavy grazing which caused destructiveness and deterioration to a great part of Jordan's forests.

Area of forest land Jordan has a total area of 24 million acres of which 131,000 acres are covered with natural forests and 605,000 acres of old woodland are being reforested.

Rainfall Compared with eastern United States Jordan is a relatively dry country with only 10 to 25 inches of rainfall in the mountains and less than 10 inches in the semiarid areas and the Jordan Valley.

Regions According to forest climax formation Jordan is divided into three regions:

Southern Region—mixed forests of *Juniperus phoenecia*, *Cupressus sempervirens*, and *Quercus aeglops*.

Northern Region—mixed forests of *Pinus halepensis*, *Quercus coccifera*, *Quercus aeglops*, and *Arbutus*.

Palestine Mountains—mixed forests of *Pinus halepensis*, *Quercus lusitanica infectoria*, *Quercus coccifera*, *Pistacia atlantica*, *Pistacia palestina*, and *Pistacia lentiscus*.

Jordan Valley Forestry land in this part of the country is now planted with Eucalyptus. The object is to produce timber for furniture, boxes, and sleepers on a short rotation (20 years) because pines in the Northern Regions require 100-year rotations to produce saw-timber.

Nurseries There are ten temporary nurseries distributed on reforestation areas. The capacity of these nurseries is approximately 4 million seedlings annually which is sufficient to plant 4,000 acres annually.

Problems Illicit cutting, grazing, fires, and erosion are some of the factors in opposition to the practice of good forestry in Jordan.

Control measures To help minimize the above problems several laws and experiments have been put into practice. Some of these control measures are: A strict law against illicit cutting which is strongly enforced.

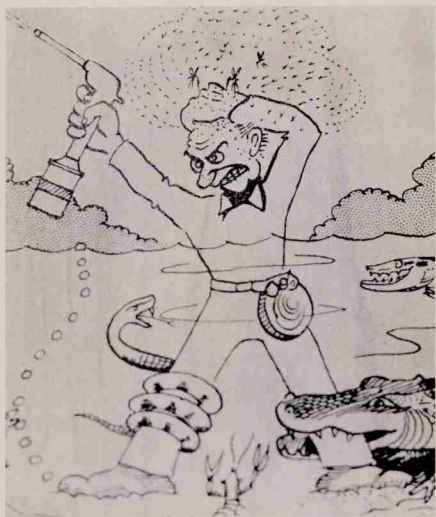
A law prohibiting grazing in pine forests and areas under afforestation.

An afforestation program for watershed control, erosion control, and providing work and fuelwood for adjacent villagers.

The consolidation of forest land by purchase or compensation of agricultural land which lies between the forests.

The encouragement of graziers by the extension service and forestry department to plant green crops as fodder for their animals.

An attempt to apply controlled grazing techniques on pastures.



A L U M N I

TREASURER'S REPORT

Income 1959-1960

3 members	@	\$ 2.00		\$ 6.00
84	"	@ 3.00		252.00
3	"	@ 4.00		12.00
46	"	@ 5.00		230.00
2	"	@ 6.00		12.00
2	"	@ 7.00		14.00
1	"	@ 7.50		7.50
2	"	@ 8.00		16.00
11	"	@ 10.00		110.00
1	"	@ 15.00		15.00
1	"	@ 18.00		18.00
1	"	@ 20.00		20.00
1	"	@ 25.00		25.00
<hr style="border-top: 1px solid black;"/>				
158				<hr style="border-top: 1px solid black;"/> \$737.50

Expense

Postage, Annual letter and PINETUM	\$ 70.00
Secretarial help, Alumni Roster and News	20.00
160 copies PINETUM @ \$1.50	240.00
<hr style="border-top: 1px solid black;"/>	
	\$330.00
Balance	\$407.50
Distribution:	Total
a. Hofmann Portrait Fund (\$92.00) + \$40.50	\$132.50
b. Slocum Scholarship Fund	
	On hand \$411.72
	This date 367.00
	<hr style="border-top: 1px solid black;"/> 778.72
To Scholarships	300.00
	<hr style="border-top: 1px solid black;"/> \$478.72
Balance	\$478.72

Ralph C. Bryant, Secretary-Treasurer



Lynn Lovelace Cooper



Donald G. Winkler ('59)

Leon D. Bonner ('59)



Donna Gale Adams—7 months ('53)



The William E. Gibbons Family — Milke-5, Diane-17, Billy-11, Mary Kim-3, and Tim-7.

ALUMNI NEWS

1930

- GRAEBER, Robert W., Consulting Forester, Self Employed.
"Owner and operator of Gullwake Forests, located in Guilford and Wake Counties."
- HOWARD, H. E., Personnel Officer, U.S.F.S., Washington, D. C.
"I appreciated the opportunity of meeting you and Mrs. Bryant at the Alumni meeting in Washington. It was good to see Dr. Hofmann again. While I'm in the same job, I did get to see parts of the southwest and northwest as well as the Lake States this year. We had another grandson this year, bringing our total grandchildren to four."
- MORRIS, Donald J., Division of Timber Management, U.S.F.S.
"Have been transferred again since last year's report. I'm now in charge of Timber Management Inventory and Planning—a most interesting job."

1931

- ARTMAN, J. O., Staff Forester, Div. of Forestry, TVA.
"Your request for pictures gives me an idea. Come next year, the Class of 31 will have been graduated 30 years. Before next Pinetum time I will make an effort to collect pictures of all 31 graduates and send them on to you for the 1961 Pinetum. I'm anxious to see what my old classmates look like after 30 years. I hope they will share my curiosity and cooperate. So Bruce, Harry, Chuck, Bruno, Bill, Jim, Happy, Dan, Harvey, Phoebe, Shafe, and Willie, if you see this, send me a recent picture. The address: Box 194, Norris, Tenn. Let's have a Pinetum reunion in 1961."
- BARNER, George W., Easton, Md.
"My husband passed away unexpectedly July 21 of a heart attack. Mrs. Barner"
- LOUGHEAD, Harvey J., Consulting Forester, Self-Employed.

1932

- COOPER, William E., Executive Director, Virginia Forests, Inc.
"Became a granddad this past year. Guess its an 'illness or malady' I'll never get over. Here's a photo of the little lady—Lynn Lovelace Copper. She was not quite six months old at this sitting."
- GRUMBINE, A. A., Assistant Regional Forester, U.S.F.S.
- MAXWELL, Albert H., Pest Control Project Forester, N. C. Div. of Forestry.
- TILLMAN, P. W., Assistant State Forester, N. C. Dept. of Cons. & Develop.

1933

- CLARK, Walfer J., Assistant Forester, Fire Control, Div. of For., Dept. of Cons. & Devel.
"No news."
- HAFER, A. B., Consulting Forester, Self-Employed. (Al is the new president of the Alumni Association)

1934

- CHATFIELD, E. E., Mgt. Supervisor, Masonite Corp.
- CORPENING, B. H., District Forester, N. C. Dept. of Con. & Dev.
- CROW, A. Bigler, Assoc. Prof., Louisiana State Univ.
"Have recently completed a fine trip from one end of the southern pine region to the other studying silvicultural practices. Visited 55 different companies and agencies from Texas to Virginia. It was a real eye-opener. Naturally, I met and talked with many State Alumni along the way."
- SMITH, Walton R., Chief, Div. Forest Utilization Research, S.E. Forest Exp. Sta.

1935

- GARDINER, Thomas B., Chief, Classification & Organization Branch, U.S.D.A.
- JACKSON, G. E., Consulting Forester, Self-Employed.
"Ralph Bryant has informed us about the growth and expansion of our Forestry School. It is our duty as Alumni to continue to tell the public about our school."
- SPRATT, J. R., President, Alico Land Development Co.

1936

- PETTIT, Charles C., District Forester, N. C. Div. of For.
- VASS, John S., Forester, Charles R. Page, Jr.
"My family and I returned from Belgium the latter part of August after 14 months stay in that country. After 11½ years of missionary service as Presbyterian missionaries, we resigned as of October 31, 1960, and we expect to make our home in Chattanooga. Our three children are: John, Jr., 13; June, 8; and Frances, 6, and they are all in school."

1937

- BRIDGES, Jr., William J., Director of Woodlands, Union Bag-Camp Paper Corp.
- FOX, Charles A., Service Forester, N. C. Div. of Forestry.
"One wife, one boy—12 and one girl 17."
- GASH, Dan, District Supervisor, International Paper Co.
- GERLOCK, Amil J., Real Estate Broker, Self-Employed.
"Everything seems to be all right. Say 'hello' to everyone for us."
- HOWERTON, Jr., T. M., Building Supply—Forestry, Self-Employed.

MATHEWSON, Clarke, Mgr. Timber Division, St. Mary's Kraft Corp.

"No new news."

RUSSELL, Carroll F., Base Forester, U. S. Marine Corps, Camp Lejeune, N. C.

WHEELER, Jr., W. H., Land & Timber Agt., Carolina Power & Light Co.

1938

CAMPBELL, W. A., Logging Supt., Owen-Illinois Glass of Bahamas, Ltd.

HUBBARD, James H., Administrative Forester, N. C. Forest Service.

WATTS, Norbert B., Director of Student Housing, N. C. State College.

"In 1963 our Class will hold its 25th reunion. I hope each member will keep this in mind and make every effort to return to the campus for this particular reunion. Big plans are in the making to insure that you will not be disappointed if you come."

1939

BEASLEY, Jr., W. L., Owner, Beasley Lumber Products.

FRYE, Joe T., President, Athens Bed Co., Inc.

"Our firm continues to expand and grow. We now have two N. C. State Furniture School graduates that are doing an excellent job."

JOLLOY, Ted M., Area Forester, W. Va. Pulpwood Paper Co.

WRIGHT, Chester N., President, Alrights Pulpwood Agency.

1940

BELL, James L., Forest Appraiser, Equitable Life Assurance Society of the U. S.

BRAKE, Ralph W., Inspector General, U. S. Army.

GIBBONS, William E., Wood Procurement Superintendent, Tenn. River Pulp and Paper Co.

"By the time this is published our new mill will have been in operation approximately six months, and I will know whether my procurement plans have been successful. It has been an experience, building from the ground up. Regards to all."

HARLEY, Ben R., Forester, Turnell & Morgan.

NOVITZKIE, Alexander, Owner of Cherry Valley Florists.

LEE, Ralph K., Forest Appraiser, Equitable Life Assurance Society of the U. S.

1941

McIVER, John E., District Supervisor, International Paper Co., Vidalia, Ga.

1942

HOFMANN, Julian G., Project Forester, Halifax Paper Co.

"Since last year, Mary Theresa arrived. 3 girls and two boys now. Everyone doing fine."

PRUITT, Austin A., District Manager, Champion Paper & Lumber Co.

"Still doing business at the same stand. Just more land to look after; but Ed Lane and I are doing a real inventory job now on what we have. When we finish the mapping we should know our 85,000 acres like the back of our hand. I am continually amazed at how this stuff grows. Hello to all the 42 gang."

TURNER, J. T., Converting Manager, Kraft Bog Corp.

1943

ETHERIDGE, Jim, Pulpwood Dealer, N. C. Pulp Co., Self-Employed.

"Enjoyed your newsy letter. Fishing has been awful this summer; logging too."

1944

HARDEE, Jay H., Senior Conservationist, International Cooperation Admin., USOM/Haiti.

"I am grateful to the author of Prof's obituary in the Pinetum; he loved Prof as many of us did. The job here in Haiti is Watershed Management."

MAHONE, Richard D., Asst. Director of Landscaping, Colonial Williamsburg, Inc.

"Really enjoyed seeing and hunting with Doug House and Jim Etheridge this winter. Those bird dogs of Jim's are pretty darn good—even in the James River."

1948

BLACKSTOCK, Clarence E., Research Forester, U.S.F.S., Pacific Southwest For. & Ran. Exp. Sta.

FRANKLIN, B. D., Instructor, Civil Engineering Dept., Agr. & Mech. College of Texas.

"Mary K., 3, and Burney D., 1. We appreciate getting news from both the School and the state."

ICARD, Thomas F., Attorney, Senior member of firm: Icard, Merrill, Cullis & Timm.

"I extend congratulations to Walt Keller for his work in the Forestry Extension Division, and to George Smith who has been moved up to Assistant Director of Extension at the College. I hope that in the year 1961, I can attend the Rolleo, and in the meantime I plan to contact as many of the 47 and 48 alumni members as possible, to see if we can't hold somewhat of a reunion in or near Raleigh at the time of the Rolleo next year."

1949

ALTMAN, James A., Forest Engineer, American Pulpwood Assoc.

ALVIS, Richard J., Soil Scientist, U. S. F. S.

HARPER, J. P., Area Superintendent, International Paper Co.

MUSTIAN, Jr., A. P., Forester, U. S. F. S.

NONEMAN, Robert L., General Manager, Rome Charcoal Corp.

PARHAM, Walter R., President, Moores Wholesale Builders Supply, Inc.
SALZMAN, Franklin, Washington Office Personnel Officer, U. S. F. S.
"A very gratifying experience seeing Drs. Hofmann, Miller, and Kauffman again at annual SAF meeting."
WHITFIELD, Fred E., Forest Mgt. Ext. Spec., N. C. State College Agri. Ext. Service.
WOODS, Frank W., Duke University, Durham, N. C.
YANCEY, T. E., District Fire Chief, Va. Div. of For.

1950

APPLEBY, Capt., Phillip E., Assist. Prof. Air Science, U.S.A.F.
BARBER, John C., Project Leader, U. S. F. S.
BAREFOOT, A. C., Forestry Advisor, ICA, USOM/Pakistan.
CAVANAUGH, Martyn, District Mgr., Champion Paper & Fibre Co.
DEE, James J., Commercial Airline Pilot, American Airlines.
DELLINGER, H. C., District Supervisor, International Paper Co.
DELLING, Thomas E., Deputy Forester, Shasta Forests Co.
HARE, R. J., Wood Procurement Supt., Halifax Paper Co.
"Lost the darn sheet! I am now called Wood Procurement Superintendent, but am not really responsible for current surplus of wood on hand."
MULKEY, Mark, Project Engineer, International Paper Co.
"Hope to have some pictures soon. Will forward later."
PASCHAL, W. J., Partner, Paschal Lumber Co.
PIERCE, William L., District Fire Chief, Va. Division of Forestry.
RANKIN, J. R., Pulpwood Dealer, Self-Employed.
"Same job and same family, no additions. One girl, 4½, one boy 2½."
SMITH, Capt., Herbert H., U. S. Army.
WILKINSON, James M., Forester, Masonite Corp.

1951

COUSINS, Charles, Production Manager, Lea Lumber & Plywood Corp.
"No new developments. Greeting to all at NCS and best wishes to the new grads."
ESTEP, Eldon M., Graduate Stud., Univ. of Washington.
ETCHISON, Philip B., Assistant Ranger, U. S. F. S.
MASTEN, James C., Manager, Acme Wood Corp.
"We are proud to announce the addition of a new 'forester', born Nov. 1, 1960, names Mark Stephen Masten. Best wishes to all for a very good 1961."
REID, Jr., James R., Prospecting Engineer, Superior Stone Co.
RENFRO, James F., Forester, Container Corp. of America.
"I'm still in South Alabama and next to the mountains of North Carolina. Its the greatest place to practice forestry in the country. The longleaf woods here are a pleasure to work in and I often feel guilty when I think of George Lamb and Wilt Mitchell fighting those pocomis in eastern North Carolina. We have one child, a boy, who is just two years old."
SHILLING, R. E., Unit Forester, International Paper Co.

1952

CROOK, Jr., James D., Asst. Forest Eng., Hiwassee Land Co.
DORWARD, Robert E., Nurserymen, Hiwassee Land Co.
"Now have a son, Bruce Eugene, born August 5, that makes two children so far."
JACKSON, Jr., Clyde A., Purchasing Agent, Mebane Lumber Co., Inc.
"We have 3 daughters now. Guess I won't get to see the '60 football team in action, but hope someday to see, first hand, this genetics program that seems to be growing."
JACKSON, Jr., John V., District Fire Chief, Va. Division of Forestry.
JENKINS, Robert G., Sales Representative, Borden Chemical Co.

1953

ADAMS, Phillip W., Land Bank Appraiser, Federal Land Bank.
"My wife, Mae, and I have a daughter now, and am sending a picture of her. Donna was born in February 1960."
BENNETT, Joseph W., Assist. District Forester, Hiwassee Land Co.
"One wife, one daughter—in the 1st grade already—one son, one large mortgage."
CRUTCHFIELD, Douglas M., Administrative Assist. W. Va. Pulp & Paper Co.
"Well, Prof., I've traded my boots and station wagon for a tie and subway. I haven't been in the big city too long, but the work is interesting. I work under 'Nick' Lenhart (1930?), the timberlands Division Manager. I follow the fortunes of the school and note the continuing advances. Thanks for your suggestions on the lumber production problem."
HOLMES, Jr., Malcolm L., Consulting Forester.
"Glad to hear the school is growing so, what with the young crop of foresters coming along, a large school will sure be needed."

1954

ANDERSON, H. J., Cooperative Forester, Halifax Paper Co.
ARNOLD, Thurston W., District Forester, N. C. Pulp Co.
BARRETT, James, Research Forester, U. S. Forest Service.
"Nothing much to report. After a year of studying mensuration at Duke, I am beginning work on mensuration problems here in Louisiana. Sure wish I could have gone to the Rolleo."

DERRO, Jr., Joseph J., Science Teacher, Pentucket Regional School.

"Nothing too much that is new around here. Still teaching school and enjoying it. I worked in Vermont last summer and got a chance to visit Skip Malmquist, 'Chief of Logging Operations for Malmquist Wood Products, Inc.'"

LALICH, B., Firestone Plantations, Harbel, Liberia, W. A.

LANE, Jr., Edward B., Assist. District Manager, Champion Paper & Fibre Co.

"It's been quite an eventful year for me; I tied the knot with a Georgia 'peach' on June 26. Someone informed me that I was the sole remaining bachelor from my class, and certainly I wouldn't want it said that I am a non-conformist. My pack of eight beagles assure the rabbit population of Georgia another rough year. Austin Pruitt continues to harass the quail. I had planned to get with Austin and send you some bang-up pictures of life down here, but we stay too busy during off-duty hours. We are now engaged in a re-inventory of our 80 thousand acres of timberland in Georgia."

NICHOLSON, John E., Assist. District Forester, N. C. Division of Forestry.

"I took the big step by getting married on August 14, 1960."

RAPER, Charles F., Mortgage Loan Representative, Travelers Insurance Co.

"Better get this in before the 4c stamp on your envelope becomes obsolete. Still running around, wearing out tires and footgear, trying to make good timber loans. Work continues to be highly interesting and unpredictable."

SEWELL, Carl S., Assist. Area Forester, St. Mary's Kraft Corp.

WRIGHT, Jr., Ernest B., Assist., District Ranger, U. S. F. S.

1955

CHAPMAN, John F., Forester, U. S. F. S.

"Too late no doubt, but just found this thing in some magazines, etc., at home during the holiday."

COBB, Jr., Fields W., Graduate Student, Pennsylvania State University.

"Sorry I can not afford any more than the dues for this year. This graduate student profession doesn't seem to pay very much. Maybe with a Democratic President, the minimum wage will be raised a little. My wife and 20 month old daughter, Cindie, are fine; and if I could finish these language requirements, I guess I could say the same for myself. Best regards to all."

HARDY, Jr., P. L., Consulting Forester & Pulpwood Dealer, Self-Employed.

"I resigned from Va. Division of Forestry at the beginning of the year and am now trying to make it in the cold cruel world."

MALMQUIST, Quentin A., Vice President, Malmquist Wood Products, Inc., Post Mills, Vt.

MANUCY, Orian A., Attorney At Law, General Practice, Stoney & Stoney, Attorneys.

"I was so glad to receive your informative letter of October, and it was so nice to hear news of my old Alma Mater. Much has taken place since the last time we were together. After two years in the Navy, I received my law degree from the Univ. of Va. in 1960, and admitted to the S. C. Bar in 1960 and am now associated in the practice of law. I hope some day to return to the campus and to visit all of my many friends. Give my regards to Dean Preston and all the other professors that were there during my time."

PURDY, Clifford J., Purdy Timber Co., Inc., Chester, Virginia.

"Hope to get to Raleigh before too long and see some of you."

RAND, Leroy F., Plant Manager, Fla. Furniture Industries, Inc.

SEAMAN, Emil H., Engineer Designer "A", Aerojet General Corp.

"I left the Maine Corps in Dec. 1959 and packed the family off to California. Family consisting of one wife and two wee ones. I am presently doing market research and customer contact work and love it. I would like to hear from some of the gang of '55. Best wishes to everyone."

TEKEL, Joseph E., Assistant Ranger, U. S. F. S.

"Since graduation have acquired wife and am now on the Clinch Ranger District, Jefferson National Forest. Best regards to the faculty and all of my old friends."

1956

DOZIER, William B., Consulting Forester, Self-Employed and Law Student, UNC.

"My wife, Jean, and son, Greg and I are happy to be back in the Ole North State. Left W. Va. Pulp & Paper last year to enter law school and try consulting. Am keeping pretty busy between the two, but enjoy it all."

KILIAN, Jr., Leonard A., Watershed Forester, N. C. Div. of Forestry.

"Same place, one addition—a daughter, Catherine Susan, born Feb. 24, 1960."

MILLER, Jr., Robert J., Logging Engineer, Tilghman Lumber Co., Inc.

"We have a very active chapter of the S.A.F. in this area; the Pee Dee Chapter—Harold Bishop is president."

SWIFT, John G., Service Forester, Va. Division of Forestry.

WEBB, Jr., James E., Classification Assistant, U. S. F. S.

"This has been quite a year for the Webbs. A transfer last June to the Regional Office and the birth of Julia Lee in December made life pretty interesting. That gives us two girls. Our oldest, Becky, has already lived in three states at the ripe old age of two. Well—not a dull moment with the U.S.F.S.!"

1957

BUTLER, Gordon Lee, Forester, Coosa River Newsprint Co.

EMORY, Joe B., B-47 Co-Pilot, U.S.A.F.

"My wife, Jane and I have a girl Kitz, 2 in March and James a new boy, 2 months old."

DUCKWORTH, Clarence A., Forester, Coosa River Newsprint Co.

"Married to Rebecca Ann Harp on Aug. 9, 1958, expecting an addition to the family soon. Keep up the good work. Glad to see State advancing so fast."

KELLEY, Jack Stewart, Forester, U. S. F. S.

"I'm finally out of the swamps and am now located in some beautiful country at Burns-ville, N. C. Mt. Mitchell is a short drive one way and Ronn Mtn. the other, good hunting, fishing, and beautiful scenery. I feel sorry for the rest of you fellows."

PICKENHEIM, R. J., U. S. Forest Service, Whitehall, Montana.

"Things have been in a rush—always so it seems. Just now we are in the process of moving to Whitehall, Montana where I take over as Asst. Ranger. Had an addition to the family on Feb. 26. Name is Eric Richard.

STEVENS, Wilbur R., Assist. Area Manager, Riegel Paper Corp.

STEVENSON, James C., Graduate Student, University of California.

TAYLOR, Ralph P., Conservation Forester, Union Bag Camp Paper Corp.

WHITE, Jr., M. J., Forest Aid, Union Bag-Camp Paper Corp.

"Still working hard and liking the work more and more. Moved into my new home this summer, and have a new baby on the way. Hope we have a class reunion real soon."

1958

BAKINS, Thomas A., Dunlap, Tenn.

HILBOURN, Ted, Forester, Weyerhaeuser Co.

"It's great to be a 'Captain of Industry.' Wife happy, kids are disgustingly healthy. Three bucks is just as hard to find as ever. Slip on your hip boots and come see us."

HILLS, Charles C., Consulting Forester, Self-Employed.

"I'm on my own now and enjoying it very much. Have a son and a daughter now. Wilson Alexander and Bob Simmons are nearby, so we get together pretty often."

O'QUINN, Charles, Procurement Forester, W. Va. Pulp & Paper Co.

"Please give everyone my regards."

ROBERTS, James, Investment Broker, Baker Weeks & Co.

SIMMONS, Robert, Orangeburg, S. C.

"Have a new daughter, Aundora, born, May 31, 1960. A boy is on the way." Bob stopped by the office and seemed in fine fettle.

THORP, Erich C., Construction Superintendent, Lane Construction Co., Inc.

(Erich stopped by school this fall and seemed sleek and happy).

1959

BROWN, John A., Research Department, Drexel Furniture Co.

CAPPS, Chnt, Forester, Halifax Paper Co.

"Its sure nice to be back in the south again after working a long 13 months in the fall timber of Oregon. B. J., Chip, and I send our regards to all."

DODGE, Oliver C., Assistant-in-Forestry, Auburn University.

"Have just started working here at Auburn University's experiment forest station and it is good to be in association with a school again. The work is interesting. My family now consists of my wife, Shirley, my two children, Jeffrey, 2 and Marie Therese, 2 months. Am looking forward to coming to N. C. State to have a look-see at all the goings on."

FREEMAN, Wray E., CFM Forester, S. C. Comm. of Forestry.

"Married February 26, Jane King from Orangeburg. Give regards to all." Congratulations.

GILBERT, Richard, 16 Olmstead Hill Rd., Whitton, Conn.

"Finished a hitch in the Army a few months ago and now ready to get back to work. Lum Bomer and Winkler are both in Army and are stationed at Fort Eustis, Va. Lum worked in the Post Hospital." (See Photo).

GREGG, Stewart W., Senior Forester, Wood Procurement Division, Rome Kraft Co.

"Many thanks for the school news. Congratulations on your new Wood Products Laboratory. Attended the 1960 Conclave held near Pine Mountain, Ga. with Dick Byerly and Roy Leach. Was glad to see that N. C. State was well represented. Was quite surprised to have met King Morton in October at the Tennessee State Forest Festival held in Chattanooga. My regards to everyone."

HANNAH, Harold D., Service Forester, Va. Division of Forestry.

LIVELY, Jr., John H., Timber Management Assist., U. S. F. S.

"I forgot to send last year's dues and news so this is rather late news. My son Clifford Brian just celebrated his first birthday, Nov. 1, 1960. What is Ralph, Jr. doing now?"

LUPOLD, Hugh, Consulting Forester, Milliken Forestry Co.

"Had a vacation from work with six months tour this past summer with Uncle Sam at Fort Benning and Jackson. Back in Columbia now for good. Enjoy work very much and like the variety of work that comes in the consulting business."

SCANLON, David H., III, Firestone Plantation Co., Harbel, Liberia, W. A.

"Married Lucy Pierce of Topsfield, Mass. on Dec. 19, 1960. In Liberia for two years managing rubber plantations. While here my wife and I hope to study the tribal people and their customs as well as tropical vegetation."

STONECYPHER, R. W., School of Forestry, N. C. State College.

STURGLL, Jack C., Rome Kraft Co., P. O. Box 91, Dowsonville, Ga.

SUMMERVILLE, Kenneth O., Battalion Morning Report Clerk, U. S. Army.

"Received my promotion to Specialist Fourth Class recently."

SUMNER, L. Bruce, Forester, U. S. F. S.

"Busier than a one-armed timber faller; something new all the time—and always fire May-November. Am mainly engaged in TSI work, but some sale administrative. We have nine foresters on this district alone, and it's really a going concern. Sorry, no pics except color slides. Gun trading business is better than ever this season. My regards to you, Dr. Maki, Doc Miller and Prof. Carter. Hope this isn't too late. Am very glad to hear the Slocum Scholarship fund is doing well. How is the Hill Forest Memorial area?" (Looks fine Bruce!)

TABOR, Christopher A., Ensign, U. S. N. R.

"It was a pleasure to read of the progress of the School of Forestry during the past

year, particularly the items concerning the National Science Foundation grants and the scholarship awards. The *Journal of Forestry* seems to be taking the appearance of an 'N. C. State Alumni Bulletin'—each issue appears to have considerable information ranging from Pulp and Paper Foundation Scholarships to articles by our former classmates. I have now served in the Navy for more than a year, but two remain before the completion of my obligation. The work is interesting, however, it's very 'far' from forest management."

WELCH, Richard V., Working Circle Forester, Union Bag-Camp Paper Corp.
"Timber removals and the upcoming planting season are sure keeping us busy down here. We visited Jack Sturgill and family last August, but haven't seen many other classmates. Anyone down this way, drop by to see us."

1960

BELT, Jr., George H., Student, University of Maryland.

"Very pleased to see the progress being made in grants, scholarships, etc. as well as in the additions to the staff. My wife and I spent the summer in Phillipsburg, Mont. where I was doing research for the Weather Bureau in conjunction with the Forest Service's Skyfire Project. While in Phillipsburg, we met Paul Pickenheim (class of '56) and his lovely wife, Janice, permanent residents of Phillipsburg, who made our stay more enjoyable. We are presently in College Park, where I am taking post graduate work prior to embarking on work toward an M.F. in Fire Control!" (George will be at Yale this fall in fire Research).

BOST, Ronald M., 2nd Lt., U. S. Army.

"I only hope that I remember enough forestry when this 2 year hitch is up to hold down a job. I'm still single and fancy free, and I don't think I'll have any trouble staying this way for a while yet."

BRAKE, Robert, Area Forester, Chesapeake Corp. of Va.

"Married Aug. 14, 1960 to Louise Butts."

BRINKLEY, Charles W., Assiat. District Ranger, U. S. F. S.

BYERLY, Richard D., Senior Forester, Wood Procurement, Rome Kraft Paper Co.

"Howdy, everybody! I'm still fighting loblolly pine, greenbriars, honeysuckle, kudzu, yellow paint, etc. Haven't seen anything comparable to Block 10, however."

CARRIGAN, William C., U. S. Army.

COLLIER, Talmadge W., Service Forester, Kentucky State Division of Forestry.

"Our second boy was born in August 1960. Hurry and graduate fellows for there is loads of work that needs doing here in Kentucky."

EGGLER, Joseph Amory, Forester, U. S. F. S.

"Our son, John Arthur, born April 14, 1960."

FOX, Jerry H., Account & Student, Falls & Shepherd.

HAMPTON, Glenn, Ranger, U. S. F. S.

"The most important news item I can think of is, I was married September 3, 1960, to a young California lass. If anyone from State happens out this way, stop in and say hello. We have skiing from November to June, and the best fishing and hunting this side of Hillsboro."

HELMS, G. Alex, 4115 Wilson Drive, Norfolk 6, Va. Sales Representative.

IRVIN, Tom, Industrial Salesman, The Franklin Glue Co.

"Everything is going well with my work and I like it very much. Many new furniture plants are springing up in this area, especially in Mississippi, these I have seen through my traveling. Great like here in Memphis, I would like to get back to Raleigh sometime, but don't know when. Say hello to Prof. Carter for me."

LEACH, Roy E., Forest Technician, Rome Kraft Co.

McMINN, Jim, Research Forester, Southeastern Forest Exp. Sta.

SELDEN, III, Charles W., Graduate Student, University of Florida.

"Sorry to have taken so long to write back and return the form you sent out. Believe it or not, I have been really kept busy this semester—do nothing but study. To date, I have managed to find time for one date—a real surprise isn't it? Hope the Pinetum is coming along fine and am really looking forward to getting it and seeing where the undecided ended up. Best regards to everyone."

SMATHERS, Sam T., 2nd Lt. U. S. Army.

THOMPSON, John R., Quality Control Engineer, Ecusta Paper Division of Olin Mathieson Chemical Corp.

WALLINGER, R. Scott, Student, Yale School of Forestry.

"Work here at Yale is rough, but very interesting. I'm involved in management with it running from silviculture through corporate finance to personnel psychology. Have seen Dave Scanlon ('59) nearly every weekend."

ALUMNI DIRECTORY

Class of 1930

W. B. Barnes	6149 Primrose Ave., Indianapolis 20, Ind.
C. A. Bittinger	Deceased
G. K. Brown	1516 Garfield Street, Laramie, Wyo.
E. R. Chance	Deceased
T. C. Evans, M.S. '31	276 Cumberland Ave., Asheville, N. C.
R. W. Graeber	303 Hillcrest Rd., Raleigh, N. C.
N. R. Harding	Georgia Kraft Co., Director Wood Procurement, Route 5, Rome, Ga.
S. G. Hile	6816 Market St., Upper Darby, Penna.
H. E. Howard	Apt. A-1003, River House, 1111 Army-Navy Drive, Arlington 3, Va.
J. N. Leader	Bedford, Pennsylvania
D. Y. Lenhart	W. Va. Pulp & Paper Co., 230 Park Ave., New York 17, New York
D. J. Morris	6957 Fort Foote Rd., Washington 22, D. C.
R. L. Pierce, M.S. '31	851 Scott Street, Stroudsburg, Penna.
H. G. Posey, M.S. '50	Alabama Polytechnic Inst., Auburn, Ala.
H. A. Snyder	Deceased
J. W. Walters	Point Pleasant, Pennsylvania
F. F. Weight	40 Jackson Ave., Middletown, N. Y.
C. B. Zizelman	500 E. Broad St., Tamaqua, Penna.

Class of 1931

N. B. Alter	Chattahoochee Nat'l Forest, Gainesville, Ga.
H. E. Altman	26 Mississippi Ave., Silver Springs, Md.
J. O. Artman	110 Hilltop Lane, Norris, Tennessee
G. W. Barner	Deceased
J. A. Brunn	2804 Chadin Ave., New York, New York
W. T. Buhrman	5901 Kenwood Ave., Baltimore 6, Md.
J. S. Cartwright	11 Dartmouth Ave., Avondale Estates, Atlanta, Ga.
H. A. Foreman	Marshalls Creek, Pennsylvania
D. B. Griffin	Box 605, Front Royal, Va.
H. J. Loughhead	399 Vanderbilt Rd., Biltmore Station, Asheville, N. C.
C. F. Phelps	204 Lakewood Dr., Richmond, Va.
C. H. Shafer	1233 Lehigh St., Allentown, Penna.
G. K. Slocum, M.S. '32	Deceased
W. B. Ward	15 School Lane, Springfield, Penna.

Class of 1932

W. E. Cooper	301 E. Franklin St., Richmond 19, Va.
A. A. Grumbine	411 Carriage Dr., N. E. Atlanta 5, Ga.
J. J. Kerst	Box 77, Vicksburg, Mississippi
A. H. Maxwell	305 Tate St., Morganton, N. C.
F. J. Miller	1234 Brooks Ave., Raleigh, N. C.
C. G. Royer	106 Penn. Ave., Watsontown, Penns.
G. K. Schaeffer	40 Bates Ave., S. E., Atlanta 17, Ga.
P. W. Tillman	2632 St. Mary's St., Raleigh, N. C.
W. H. Warriner	U. S. Forest Service, Jackson, Mississippi
Luther Williams	Box 229, R.F.D. #1, Monroe, N. C.

Class of 1933

J. C. Blakeney	1755 Sterling Rd., Charlotte, N. C.
W. J. Clark	2811 Barmettler, Raleigh, N. C.
T. C. Croker	Box 311, Brewton, Ala.
A. B. Hafer	Consulting Forester, Box 655, Laurinburg, N. C.
O. W. Pettigrew	Route #5, Raleigh, N. C.
M. W. Riley	Box 556, Portsmouth, Va.
R. J. Seitz	825 S. Jackson St., Gastonia, N. C.
A. L. Setser	5358 Tally Drive, Chamblee, Ga.
R. A. Wood	18 Buckingham Court, Asheville, N. C.

Class of 1934

W. J. Barker	112 Strode Circle, Clemson, S. C.
E. E. Chatfield	Route 6, Laurel, Mississippi
B. H. Corpening	138 Shelburne Rd., Asheville, N. C.
A. R. Crow	Assoc. Prof., School of Forestry, Louisiana State University, Baton Rouge 3, Louisiana
F. A. Doerrrie	Box 4136, Baytown, Texas
L. B. Hairr	Box 112, Marion, N. C.
F. H. Hube	1151 W. 20th St., Laurel, Mississippi
F. H. Ledbetter	Box 594, Lenoir, N. C.
D. C. Piaster	111 Fox St., Morganton, N. C.
C. T. Prout	1802 Melrose Ave., Havertown, Penns.
A. G. Shugart	Yadkinville, N. C.
W. R. Smith	72 Hibriten Dr., Asheville, N. C.

Class of 1935

H. F. Bishop	Woodland Ave., Marion, S. C.
W. E. Boykin	Box 267, Lillington, N. C.
C. W. Comfort	U. S. F. S., Gulfport, Mississippi

F. J. Czabator	State Univ. of New York, College of Forestry, Syracuse 10, N. Y.
L. S. Dearborn	Rt. #1, Box 84, Flagstaff, Arizona
O. R. Douglas	Box 1626, Station A, Anderson, S. C.
J. D. Findlay	5148 15th St., N., Arlington 4, Va.
T. B. Gerdiner	4223 12th Road, S., Arlington 4, Va.
J. B. Graves	403 Court St., Talladega, Ala.
F. A. Hodnett	Box 535, Dublin, Va.
W. W. Hood	P. O. Box 484, Starke, Florida
G. E. Jackson	604 West Main St., Washington, N. C.
B. K. Kaler	Soil Conservation Service, Norwich, N. Y.
J. W. Miller	Assist. Prof. of Forestry, Univ. of Fla., Gainesville, Fla.
F. N. Newnham	U. S. F. S., Regional Office, Atlanta, Ga.
H. W. Oliver	Princeton, N. C.
R. H. Page, Jr.	P. O. Box 1183, Macon, Ga.
J. A. Pippin	Box 664, Rockingham, N. C.
E. G. Roberts	Mississippi State College, State College, Mississippi
M. W. Shugart	S.C.S., Halifax, N. C.
J. R. Spratt	Atlantic Land Improvement Co., La Belle, Fla.
J. W. Stingley	11 Bayview Drive, Jacksonville, N. C.
W. E. Stitt	Deceased
H. R. Wright	1901 McGregor Dr., Lufkin, Texas

Class of 1936

A. G. Adman	22 Abbot Dr., Dayton 10, Ohio
W. C. Aiken	16 Edgewood, Selma, Ala.
L. K. Andrews	950 N. Division St., Aberdeen, Wash.
O. T. Ballentine	Deceased
R. O. Bennett	Deceased
A. H. Black	200 Third Ave., Scottsdale, Penna.
H. M. Crandall	1526 Eighth Ave., Birmingham, Ala.
D. C. Dixon	Dixon Tire Sales, Lancaster, S. C.
W. M. Hill	General Delivery, Thomasville, N. C.
S. K. Hudson	1400 E-cambia Ave., Brewton, Ala.
O. H. James	Wallace, N. C.
C. S. Layton	Route #1, Greensboro, N. C.
L. N. Massey	2900 Claremont Rd., Raleigh, N. C.
A. D. Nense	Box 1339, St. Augustine, Fla.
P. M. Obat	Deceased
D. M. Parker	Sunbury, N. C.
C. C. Pettit	Box 936, Sylva, N. C.
C. H. Riley	Pleasant Garden, N. C.
J. L. Searight	Deceased
M. F. Sewell	Unknown
J. H. Thornton	1035 C Street, Harrisonburg, Va.
W. H. Utley	Box 645, New Bern, N. C.
J. S. Vass	4907 $\frac{1}{2}$ St. Elmo Ave., Chattanooga 9, Tenn.
L. H. Welsh	719 Country Club Rd., Wilmington, N. C.

Class of 1937

W. J. Bridges, Jr.	Bluffton, S. C.
Locke Craig	c/o U. S. Consultant Officer, Belem, Brazil, S. A.
J. W. Davis	Unknown
P. L. Davis	L. N. Davis Co., P. O. Box 404, Waynesville, N. C.
W. G. Davis	Sylva, N. C.
Henry Delpin	Unknown
J. M. Deyton	Green Mountain, N. C.
N. P. Edge	232 S. Franklin St., Rocky Mount, N. C.
C. A. Fox	Box 173, New Bern, N. C.
W. D. Gash	3602 Stratford Blvd., Wilmington, N. C.
A. J. Gerlock	Route 1, P. O. Box 137, Fairburn, Ga.
J. H. Griffin	Deceased
A. F. Hein	c/o Dr. H. Hein, James Monroe High School, Bronx, New York
J. B. Heltzel	Virginia Forest Service, Charlottesville, Va.
T. B. Henderson	Route 1, Box 115A, Williamsburg, Va.
J. W. Hendrix	Unknown
T. M. Howerton, Jr.	Buena Vista Farms, Madison, Florida
E. L. Hurst	U. S. Forest Service, Stearns, Kentucky
Clarke Mathewson, M.S. '37	Box 405, St. Mary's Ga.
C. M. Matthews	Univ. of New Hampshire, Forestry Dept., Durham, N. H.
J. A. Matthews	Box 25, Southern Pines, N. C.
Joseph Matys	Unknown
B. H. Mayfield	Murphy, N. C.
F. D. Mayfield	1750 Boulderview Dr., S. E., Atlanta 16, Ga.
R. L. Nicholson	Unknown
H. O. Roach	Unknown
C. F. Russell	513 Nelson Drive, Jacksonville, N. C.
L. P. Spitalnik	Unknown
L. W. Troxler	224 Carrhier Ave., Salisbury, N. C.
J. Walsh	Beach & Center Sts., Beach Haven, N. J.
W. H. Wheeler, Jr.	Box 610, Wadesboro, N. C.

Class of 1938

J. A. Belton	.....	Unknown
H. C. Bragaw	.....	Deceased
J. S. Campbell	RFD #2, Sedley Rd., Franklin, Va.	
W. A. Campbell	1915 Wigmore St., Jacksonville, Fla.	
C. J. Cheslock	.....	Unknown
W. L. Colwell, Jr.	182 Ardith Court, Orinda, California	
P. C. Conner	Firestone Plantations Co., Harbel, Liberia, West Africa	
M. M. Dillingham	41 Park Lane, W. Asheville, N. C.	
D. C. Dixon	Lancaster, South Carolina	
R. C. Eaker	1004 Bragg St., Monroe, N. C.	
J. W. Farrison	.....	Deceased
J. H. Findlay	902 Edgemont Circle, Gastonia, N. C.	
G. H. Floyd	116 Pittman St., Fairmont, N. C.	
W. L. Foster	.....	Unknown
B. Griffin	.....	Red Oak, N. C.
P. A. Griffiths	405 Furches St., Raleigh, N. C.	
R. M. Henry	2209 W. 36th St., Pine Bluff, Ark.	
L. H. Hobbs	For. Ext., School of Forestry, N. C. State College, Raleigh, N. C.	
A. J. Honeycutt, Jr., Major	.....	MCS, Quantico, Va.
J. B. Hubbard	3036 Churchhill Rd., Raleigh, N. C.	
James L. Huff	.....	Maysville, N. C.
G. W. Hunter	525 N. East St., Raleigh, N. C.	
V. V. Kareiva	2303 Byrd St., Raleigh, N. C.	
H. W. Lull	Div. of Watershed Mgt., NE For. Exp. Sta., Upper Darby, Penna.	
T. J. McManis	.....	Deceased
W. J. Mashburn	206 Surginer Rd., Rockingham, N. C.	
J. P. Moorefield	.....	Unknown
R. M. Nelson, M.F. '39	c/o Robt. B. Tucker, 809 Philadelphia Ave., Chambersburg, Pa.	
E. W. Ryder	11 S. Prince St., Shippensburg, Penna.	
C. B. Shimer	1509 Webb St., Raleigh, N. C.	
G. E. Smith	.....	Unknown
I. W. Smith	.....	Unknown
P. L. Warlick	398 Vanderbilt Rd., Biltmore Forest, Asheville, N. C.	
N. B. Watts	207 Holladay Hall, N. C. State College, Raleigh, N. C.	
J. A. Whitman	Atlantic States Forestry Co., Carthage, N. C.	
W. W. Wooden	.....	Deceased

Class of 1939

G. W. Arnott	.....	Deceased
J. B. Bailey	.....	Unknown
W. M. Bailey	Box 143, Panama City Beach, Fla.	
J. S. Barker, Jr.	2406 Shirley Rd., Wilmington, N. C.	
W. L. Bousley	Hensley Lumber Products, Scotland Neck, N. C.	
A. E. Butler	3037 Farrison Rd., Raleigh, N. C.	
C. K. Dale	.....	Unknown
R. L. Esterfield	.....	Unknown
W. G. Evans	Box 323, Route #3, Wilmington, N. C.	
J. T. Frye, Jr.	365 Forest Ave., Athens, Tenn.	
C. D. Harris	P. O. Box 366, Lexington, N. C.	
H. J. Hartley	308 Bath St., Clifton Forge, Va.	
D. P. Hughes	Box 116, Colerain, N. C.	
R. S. Johnson	McNair Investment Co., Lenoir, N. C.	
Ted Jolley	Box 541, Wintnsboro, N. C.	
J. V. Lyon	.....	Unknown
H. C. Martin	.....	Unknown
C. L. Page	White Pond, S. C.	
C. H. Peterson	Johns Manville Corp., Jarratt, Va.	
H. W. Plummer, Jr.	.....	Unknown
Chester Reed	.....	Unknown
J. F. Reeves	1831 Leavenworth St., Manhattan, Kansas	
H. R. Rupp	.....	Unknown
R. W. Shelley	.....	Deceased
R. W. Slocum	1203 Maple Ave., Richmond 26, Va.	
E. W. Smith, III	309 Daisy St., Boise, Idaho	
J. J. Steele	Box 152, Lenoir, N. C.	
H. P. Stoffregen	.....	Deceased
I. L. Taylor	Route #1, Harrisburg, N. C.	
E. M. Walker	Box 768, Brookhaven, Mississippi	
C. N. Wright	224 McGhee Ave., Greenwood, S. C.	
P. B. Yeager	.....	Unknown
M. M. Young	.....	Unknown

Class of 1940

J. D. Atkins	.....	Unknown
J. L. Bell	Box 382, Davidson, N. C.	
R. W. Brake, Col.	1127 Olney Drive, San Antonio, Texas	
T. L. Cain	.....	Unknown
George Chaconas	.....	Unknown
R. E. Davis	608 Poplar St., Canton, N. C.	
W. B. Dunn	8 Central Ave., Warren, Penna.	

T. E. Gerber	444 North Wood Ave., Florence, Ala.
W. E. Gibbons	1120 Taylor St., Corinth, Mississippi
B. R. Harley	Box 548, Elizabethtown, N. C.
B. S. Hays	Dept. of Conservation & Development, Div. of For., Raleigh, N. C.
J. W. Hilton	Deceased
S. C. Ingram, Jr.	2441 Albro Blvd., Tucson 15, Arizona
M. M. Kariman	Unknown
R. M. King	Box 1003, Concord, N. C.
C. D. Kuhns	100 White Oak St., Kutztown, Penna.
R. K. Lee	312 Eola Drive, Alexander, La.
P. J. Lozier	407 Washington Ave., Cliffside Park, N. J.
M. A. Matson, Jr.	8815 Pinedale St., Norfolk 3, Va.
J. P. Needham	329 Plyley's Lane, Chillicothe, Ohio
J. F. Nigro	Millbrook, N. Y.
A. A. Novitt	418 Hempstead, W. Hempstead, Long Island, N. Y.
W. E. Odom, Jr.	Unknown
Lee Perks	54 Louisa St., Brooklyn 18, N. Y.
L. L. Perry	Deceased
C. H. Peterson	Johns Manville, Jarrott, Va.
Ernest Roberts	Unknown
W. O. Ryburn	Ryburn Farm Equipment Co., Salisbury, N. C.
A. W. Simmons	Unknown
R. S. Swanson	Box 462, Newton, N. C.

Class of 1941

P. D. Abrams	Stonehedge, North Granby, Conn.
A. W. Brown	1313 Hazel St., Jackson, Mississippi
R. E. Carey	Unknown
G. V. Chamblee	Bladen Lakes State Forest, Elizabethtown, N. C.
P. M. Cromartie	West Lumber & Box Co., P. O. Box 870, Fayetteville, N. C.
E. H. Ericson, Jr.	Old Neck Rd., Manchester, Mass.
C. E. Gill	911 Gracelyn Dr., Blacksburg, Va.
Michael Goral	Unknown
B. T. Griffith	216 South 23rd Ave., Hattiesburg, Mississippi
F. J. Hartman	12701 Valleywood Dr., Silver Springs, Maryland
T. G. Harris	421 Rightmyer Dr., Roanoke Rapids, N. C.
R. E. Huff	Box 52, Mars Hill, N. C.
R. H. London	Deceased
A. L. Jolly	Unknown
Jesse Levine	Unknown
J. E. McIver, Jr.	P. O. Box 372, Vidalia, Ga.
W. C. Picket	438 Ridgeway Ave., Statesville, N. C.
T. F. Spiker, Lt. Col.	2475 Murdock Dr., Santa Rosa, Calif.
D. F. Traylor	Box 1077, Southern Pines, N. C.
J. E. Wiggins, Jr.	Arbutus Dr., Route 6, Raleigh, N. C.
S. L. Wilson	605 Camellia Circle, Florence, S. C.

Class of 1942

W. A. Bland	Box 257, Goldsboro, N. C.
B. L. Cook	4814 W. Mtn. View Dr., San Diego 4, Calif.
W. A. Crombie	Unknown
R. S. Douglas	Box 111, Clinton, N. C.
Paul Gawkowski	Unknown
J. E. Hobbs	Edenton, N. C.
J. G. Hoffmann	Box 145, Roanoke Rapids, N. C.
G. M. Howe	42 Normandy Place, Roselle, N. J.
A. E. Johnson	Camenton, N. Y.
H. S. Katz	11 Wisner Place, Middletown, N. Y.
E. F. Leysath	223 Lincoln Ave., Rutland, Vermont
H. S. Muller, Jr.	Box 122, Kinsale, Va.
A. A. Pruitt, Jr.	Box 283, Washington, Ga.
F. A. Santapolo	Dept. of Sociology, Fordham University, New York 58, N. Y.
J. T. Thurner	St. Mary's, Ga.
F. D. Williams	1226 Salem Dr., Charlotte, N. C.

Class of 1943

H. L. Epstein	36 W. McKenzie, Stockton, Calif.
J. N. Etheridge	Box 686, Plymouth, N. C.
Morris Green	756 Pelham Parkway S., Bronx, New York
R. B. Lutz	Unknown
J. D. Martin	Flack-Jones Lumber Co., 704 S. Main St., Summerville, S. C.
J. T. Maynard	407 Meeting St., Georgetown, S. C.
O. F. Martin	161 Ridgeland Way, NE, Atlanta, Ga.
W. H. Ogden	5812 Hillock Ave., Fountain City, Tenn.
H. D. Packard	Unknown
E. H. Sayre	Box 263, Tryon, N. C.
J. L. Shoub	RFD #2, Baluda, S. C.
H. L. Terry	Box 2719, Raleigh, N. C.
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J. F. Williams	Windsor, N. C.
R. W. Wood	297 Todt Hill Rd., Staten Island, N. Y.

Class of 1944

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 R. A. Holcombe 1319 18th St., N. W., Washington 6, D. C.

Class of 1946

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 C. M. Hartsock N. C. State Hwy. Comm., Durham, N. C.
 Henry Kacaynski 1907 Chestnut Ave., Trenton, N. J.
 R. J. Robertson Route 3, Salisbury, Md.
 S. G. Spruiell 120 Lindbury Rd., Hueytan, Ala.
 E. T. Sullivan 407 Lavrie Rd., East, St. Paul 17, Minn.

Class of 1947

W. J. Barton 503 Pine St., Homerville, Ga.
 W. S. Campbell College Park, Staunton, Va.
 Robert Dorsen Unknown
 W. J. Ellis, Jr. Box 17, Jarrett, Va.
 J. H. Hardee USOM, American Embassy, Port Av Prince, Haiti
 Norman Hodul Unknown
 D. T. House Box 116, Louisburg, N. C.
 J. B. Johnson RFD #4, Raleigh, N. C.
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 W. M. Keller School of Forestry, N. C. State College, Raleigh, N. C.
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Class of 1948

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 N. E. Dayvault, Major Rt. #1, Box 153E, Triangle, Va.
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 T. F. Icard 2046 Main St., Sarasota, Fla.
 S. N. McKeever Spring Creek, West Virginia
 E. N. Seltzer 135 Beech St., Concord, N. C.
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 L. J. Smith, Jr. Mountain View, Arkansas
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Class of 1949

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 R. J. Alvis 1429 Cayon Rd., Ogden, Utah
 G. W. Barnes 415 Elm St., Raleigh, N. C.
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 J. B. Bernard, Jr. Box 936, Sylva, N. C.
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 T. S. Davis c/o J. S. Davis, Troy, N. C.
 W. C. Deaton Box 311, Southern Pines, N. C.
 G. V. Durham 1221 Barkley Rd., Charlotte, N. C.
 A. J. Edler 215 Forest Rd., Fanwood, N. J.
 C. R. Fuller 311 N. Bridge St., Elkin, N. C.
 J. H. Gandy Harbel, Liberia, West Africa
 R. B. Geddes Tappahannock, Va., Box 216
 W. H. Geddes 1115 W. Greenwich St., Falls Church, Va.
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Class of 1950

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F. W. Biddix, Jr. Spruce Pine, N. C.
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R. C. Kornegay S. 5th St., Smithfield, N. C.
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E. P. McMillan, Jr Unknown
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A. W. Millers 956 4th St. Dr., N. W. Hickory, N. C.
E. C. Moon 101 S. Laurel Ave., Charlotte, N. C.
M. S. Moore 2202 Hawthorne Lane, Kinston, N. C.
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W. J. Paschal P. O. Box 495, Lillington, N. C.
W. W. Paylor Box 152, Longhurst, N. C.

W. R. Phelps	La Lima, Hordunas, United Forest & Co.
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W. L. Pierce	112 Oakhill Ave., Portsmouth, Va.
J. M. Poplin	1126 Sycamore St., Rocky Mount, N. C.
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L. R. Propst, Jr.	Unknown
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B. W. Ratts	Box 366, Clarkton, N. C.
T. S. Rhyne	Richardson St., Whiteville, N. C.
W. R. Rickman	c/o Mrs. W. R. Rickman, Rt. 4, Franklin, N. C.
B. H. Ropeik	Unknown
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M. A. Tuttle	Box 199, Elizabeth City, N. C.
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L. J. Walls, Jr.	Clinton, N. C.
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Class of 1951

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Charles Cousins	Lea Lumber Co., Windsor, N. C.
E. M. Estep	870 W. Nickerson, Seattle 99, Washington
P. B. Etchinson	U. S. Forest Service, Mapleton, Oregon
B. W. Gentry	Troy Lumber Co., Lumberton, N. C.
D. R. Godwin	Unknown
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J. T. Hince	S. C. State Comm. of Forestry, Columbia, S. C.
H. R. Hendricks	W. Va Pulp & Paper Co., Wood Dept., Covington, Va.
I. C. Hanson	Power Operations, Kingston Steam Plant, Harriman, Tenn.
L. T. Hunter	Heritage Furniture Co., Mocksville, N. C.
R. W. Hutson	11 Gibbs St., Charleston, S. C.
A. P. Jervey	171 Wentworth, Charleston, S. C.
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J. G. Luck	21 W. 6th Ave., Williamson, W. Va.
J. C. Masten	209 E. Wyche St., Whiteville, N. C.
F. P. Meacham	Route 3, Goldsboro, N. C.
W. P. Mitchell	Box 1054, Kinston, N. C.
R. F. Penland	P. O. Box 7084, Asheville, N. C.
J. Raiston, M.S. '55	Maryville Branch Post Office, Georgetown, S. C.
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J. F. Renfro, M.S. '57	103 Davison St., Brewton, Ala.
A. C. Roane, Jr.	1208 Clay Ave., New York 56, N. Y.
S. C. Rose	205 Hillside Ave., Fayetteville, N. C.
A. F. Rowe, Jr.	808 W. 5th St., Ayden, N. C.
W. E. Scholtes	1303 Lakewood Ave., Durham, N. C.
R. E. Shilling	Box 584, Elizabethtown, N. C.
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D. A. Stocker, M.F. '51	6 Prospect St., Randolph, Vt.
C. M. Story	2329 Glascock St., Raleigh, N. C.
T. L. Sugars	728 Athens Ave., Fayetteville, N. C.
P. D. Sykes	Box 376, Drexel, N. C.
M. A. Tuttle	Box 199, Elizabeth City, N. C.
H. M. Westbury	S. C. Forest Service, Columbia, S. C.
C. C. Willoughby	903 Sycamore St., Weldon, N. C.

Class of 1952

J. D. Besse, M.S. '52	151 McMeekin St., Sault Ste. Marie, Ontario, Canada
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J. J. Cornett	Unknown
L. A. Cramer	Box 1818, High Point, N. C.
J. D. Crook, Jr., M.W.T. '56	860 Ocoee St., N. E., Cleveland, Tenn.
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T. J. Ginn, M.F. '52	Unknown
H. H. Gresham, L.P.M. '53	St. Regis Paper Co, McIntosh, Ala.
T. N. Hardin	Bureau of Land Management, Ely, Nevada
H. G. Harris, Jr.	440 W. Dure Circle, Rocky Mount, N. C.
J. S. Hinshaw	Route 5, Lexington, N. C.
S. M. Hughes	Box 23, Hall'sboro, N. C.
C. A. Jackson, Jr., L.P.M. '53	Route 1, Mebane, N. C.
J. V. Jackson, Jr.	118 W. Baker St., Charlottesville, Va.
E. N. Jordan	Tyner, N. C.
R. Kral	1130 Paulina St., Oak Park, Ill.
G. E. Lamb	Unknown
C. L. Lane, Jr.	Butner, N. C.
J. I. Ledbetter	Box 407, Badin, N. C.
J. L. Leroy	Unknown
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W. K. Lusk	21 6th Ave., Williamson, West Va.
B. C. Meeker	Unknown
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Class of 1953

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Milton Noble	Portsmouth, Kentucky
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C. E. Webb	c/o Allie Webb, Demorest, Ga.
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J. H. Wheelless	Route 4, Louisburg, N. C.
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D. J. Wolf	Unknown
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 R. B. Jordan Mt. Gililand, N. C.
 M. S. Katana, M.S. '55 Kirkuk, Iraq
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 B. Lalich Firestone Plantations, Harbel, Liberia, West Africa
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 A. E. Paetzell Unknown
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 J. P. Tunstall Edward, N. C.
 J. J. Wells 396 Maple St., Rutherfordton, N. C.
 F. D. Wentworth, M.W.T. '54 Unknown
 H. B. White 1905 Wilson St., New Bern, N. C.
 W. B. Woodrum, Jr., M.S. '54 Unknown
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 O. A. Manuay 20 Tradd St., Charleston, S. C.
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 C. J. Purdy, Jr. c/o Purdy Timber Co., P. O. Box 551, Chester, Va.
 J. F. Robinson 511 Maple St., Jacksonville, N. C.
 J. E. Rusmisell, Jr. 570 Monroe St., Hopewell, Va.
 E. H. Seaman 2015 Springfield Ave., Hermosa Beach, Calif.
 D. R. Smith Bemis Hardwood Lumber Co., Robbinsville, N. C.
 J. E. Tekel U.S.F.S., Norton, Va.
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Class of 1956

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INDEX TO ADVERTISERS

	Page
American Turpentine Farmers Association	66
Asten-Hill Manufacturing Company	44
Bartlett Manufacturing Company	55
Bowaters Southern Paper Corporation	81
Brunswick Pulp and Paper Company	22
Capital Coca-Cola Bottling Company	16
Carthage Machine Company	79
Champion Paper and Fiber Company	30
Chesapeake Corporation of Virginia	28
D. B. Smith and Company	52
Forestry Suppliers, Inc.	20
Halifax Paper Company	73
Homelite Chain Saws	59
Howerton Supply Company	68
International Paper Company	6
Mead Corporation	8
Miller Freeman Publishing Company	63
Nelson Company	69
North Carolina Equipment Company	46
Olin Mathieson Chemical Corporation	84
Omark Industries, Inc., Oregon Saw Chain Division	69
Riegel Paper Company	32
Students Supply Stores	17
United States Plywood Corporation	83
also inside front and back covers	

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. . . THANK YOU for making the 1961 PINETUM a reality.

Sam Mace, Editor

Korina, the veneer used in the Weldwood Industrial Flexwood making up the cover of this year's Pinetum, is distinctive for its fine irregular rays and pores that are just apparent enough to give an interesting color pattern, ranging from pale yellow to light brown. The wood closely resembles Prima Vera ("white mahogany") in both color and grain character, and takes a beautiful natural blonde or darker stain finish. It is a wood that is appropriate for an infinite variety of installations.

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