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Lynn Branberg and Will Mabry, two of our co-op students, measure a tree in a progeny study.

**PROUD OF OUR ASSOCIATION
WITH NORTH CAROLINA STATE**

We've been participants in the North Carolina State forestry co-operative program from its inception.

Harold Williams and Ray Phillips were two of our first co-op students, now employed with us as foresters.

We're proud to work with N. C. State in the field of forestry. Just as you make advances in forest science so do we in the forest products industry. We're both working toward the same goal—greater forests for America.

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1979**

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of the
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Volume XLV
1979



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THE DEAN'S PROGRESS REPORT

Enrollment

Student enrollment in the School has essentially stabilized over the two years as a result of a combination of (i) school policy to limit the enrollments in the two largest curricula, namely, forestry and recreation, and of (ii) college-bound students perception of job opportunities.

	Under-graduate	M.S.	Ph.D.
Conservation	42	—	—
Forestry	303	36	25
Natural Resource Recreation Mgt.	10	—	—
Recreation Resources Administration	231	25	
Pulp and Paper Science & Technology	147		
Wood Science & Technology	62	17	21
Unclassified	<u>2</u>	—	—
TOTAL	797	78	46

Degrees awarded in 1977-78 were:

Bachelor	223
Masters	22
Doctorate	<u>10</u>
TOTAL	255

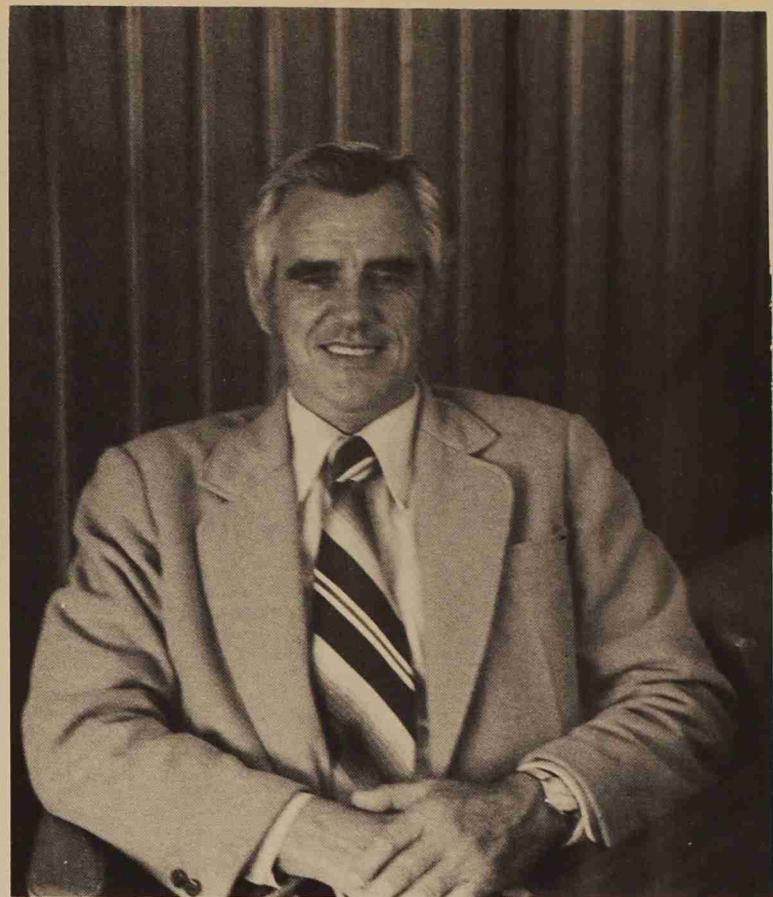
Administrative and Faculty Changes

Several organizational changes and faculty additions were made during the year because of retirements and new positions made available to the School. Dr. Ellis Cowling (Professor of Plant Pathology, Forestry, and Wood and Paper Science) was appointed to a newly created position of Associate Dean for Research to strengthen the administrative aspects of the School's growing and diversified research program. Dr. J. W. Johnson was appointed Department Head of Forestry, and Dr. Arthur W. Cooper as Associate Head. Dr. C. B. Davey, the former head, returned to teaching and research, and was honored by appointment as the Carl Alwin Schenck Professor of Forestry. Dr. Robert Kellison was appointed coordinator of the forestry department industry research cooperatives, in addition to his responsibilities as Director of the Hardwood Management Cooperative. New additions to the Forestry faculty were Assistant Professors Jan Laarman (Forest Economics), Richard Lancia (Wildlife Management), Jim Gregory (Forest Hydrology), William Smith (Forest Management). Professor Ralph Bryant will retire, and Professor Bruce Zobel will change to a half-time appointment at the end of the 1978-79 academic year.

The Department of Wood and Paper Science appointed Dr. Heinz Olf (Paper Physics and Polymer Science) to its faculty. The Department of Recreation Resources Administration appointed two new Assistant Professors, Dr. Philip Rea (Outdoor Recreation Management), and Dr. Don Tarbet (Resource Management, Research and Statistical Methods and Social Sciences).

Expansion of Research Program

Concurrently with the doubling of the School graduate student enrollment over the last three years, the size and scope of our research program has enlarged to an annual expenditure approximating \$2 million.



Approximately two-thirds of this amount was obtained from industrial and government cooperative research, grants, and contracts, the remaining one-third was appropriated by state and federal research funds. This illustrates the extent to which the research, and hence support of graduate student assistantships and faculty and staff salaries, is dependent upon competitive so-called "soft" funding.

A new venture which came to fruition during the year was the establishment of the Southern Forest Research Center, organized to develop a joint research program between industry, the university, and government on increasing southern forest productivity, with an emphasis on soils management. Dr. Cowling acts as Director of the Center.

Facilities and Space

Space and facilities are now the major limiting factors in growth and development of the School's programs. Recognizing the increasing difficulty of obtaining construction (capital) funding from state appropriations, we are seeking alternative funding to space. One of the promising approaches is that of constructing a research facility on the newly approved site for a research annex on the periphery of the main campus. Non-government funds are being sought to undertake this project, and the first \$50,000 has been promised to the School by the N. C. Forestry Foundation.

In Conclusion

The 1978-79 year has been one of change, involving a substantial influx of new faculty and new administrators, and a strengthening of the research support base. It will be a considerable time before so many changes will occur again.

The quality and energy of the new faculty acquisitions, combined with the new leadership, all give promise that the school, at its very least, should uphold its fine traditions of the past.



DEDICATION

The Pinetum '79 dedication could not go to a more worthy or deserving human being than Dr. Ralph C. Bryant. According to his colleague, Dr. Donald J. Steensen, "Professor Bryant is a dedicated teacher and scholar, and an absolute gentleman endowed with being—generous, gracious, and compassionate. Above all else, he is held in the highest esteem by his former students and his professional peers."

Chandler Eakes (For '63) says, "'Father' Bryant's students were his friends, and he enjoyed the association he had with them—whether in the classroom, by a campfire on the riverbank with a few beers, in the woods with a drip torch and a light breeze blowing (and a glint in his eye), or in his own home where he and his good wife, Evelyn, extended their graciousness to us all."

Larry Jervis, a student during the mid '60's, recalls, ". . . that afternoon when 20 of us fought 'Burner' Bryant's controlled (?) burn . . . that hellish 'slave labor day' he conducted at summer camp . . . and during that same summer, the slack afternoon when, after two of us had boldly announced our intentions to canoe down Flat River, he promptly scheduled a cruising lecture . . . the night of our South Carolina trip when he bought everybody a cool one and played poker with us 'til after midnight."

Later, as his understudy and coworker on the School Forests and in summer camp, he remembers "That other afternoon when two of us and a Forest Service plow fought one of 'Burner's' controlled (?) burns . . . the Logger's Brawl nights at Slocum Camp we spent tinkering with the pump (so the women could flush) while the others danced . . . the 'bailing wire' measures we used to keep the camp facilities operating . . . his concern for undergraduate education, and the long hours he spent finding summer jobs for our graduates."

J. Charles Lee (For '64), Dean of the School of Forest Resources at Mississippi State University, says of Dr. Bryant, "You were the student's advocate, and I know what professional sacrifices you made as you devoted hour after hour to student problems, many of which were unrelated to forestry. Whenever I visit a forestry school today, I look for the 'Father' Bryant person. Every school has one, although I have yet to see one that matched your personality or commitment."

He is called "Burner and Father" by those students, associates, and friends who know him. These people will miss him, but as Dr. Steensen puts it, "Those who will miss him most will be those that never had the opportunity to meet him as director of summer camp, or as professor of FOR 405 and FOR 406."

Perhaps J. Charles Lee sums it up best by saying, "My hope is that there will always be a 'Father' Bryant in our schools. Forestry can be taught by technical experts. You taught a philosophy of life. May your retirement reap you the dividends of a useful life, and please stay out of your own head fires."

COMMUNICATION

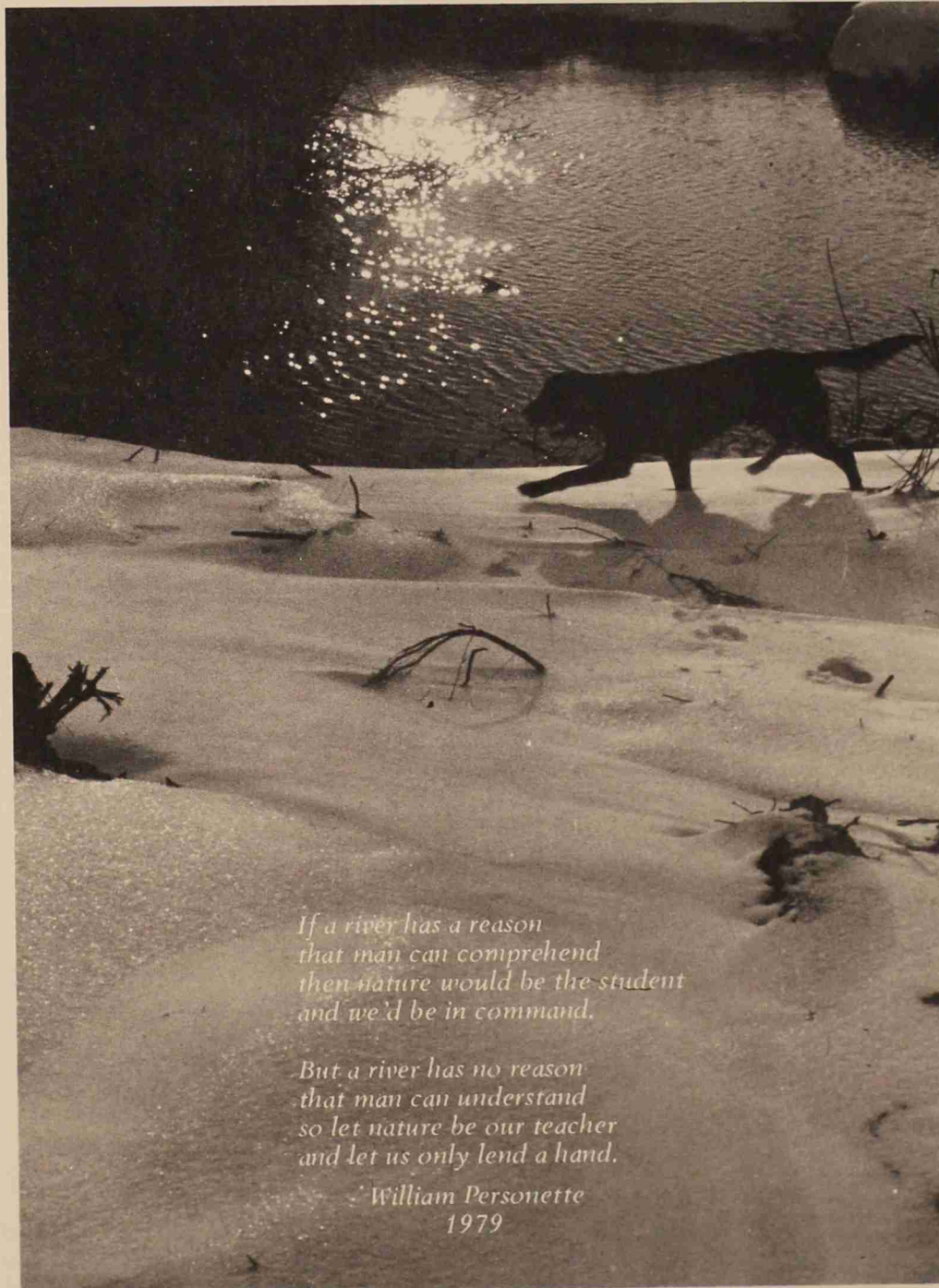
The mark of a professional is the ability to use tools well for specific purposes; the professional lumberjack, for instance, knows his saw, what it will do, and how to use it to best advantage. Like the lumberjack, foresters at all levels of the industry need to operate efficiently with the tools of their trade.

For college-educated foresters, one of the most basic tools available is the language used to communicate information about work done or to be done. As they advance in their careers, foresters, like all professionals in management and research, advance because of what and how they report about what they know and do. Organization and efficiency in writing denote organization and efficiency in operations. Clarity of expression denotes understanding of the operations

involved. Ultimately, the efficient operation of any organization depends on the efficiency of its communications apparatus and communicators.

Using language skillfully, therefore, should be a primary goal of every forester who hopes to take a position in any organization. Obviously, development of writing skills should be a fundamental part of the professional forester's education. As technical knowledge is attained, skill in communicating that knowledge should also be attained. Through cooperative efforts within the School of Forest Resources, we hope to prepare forestry graduates to assume roles as skilled professionals who can communicate well to meet the demands of their changing industry.

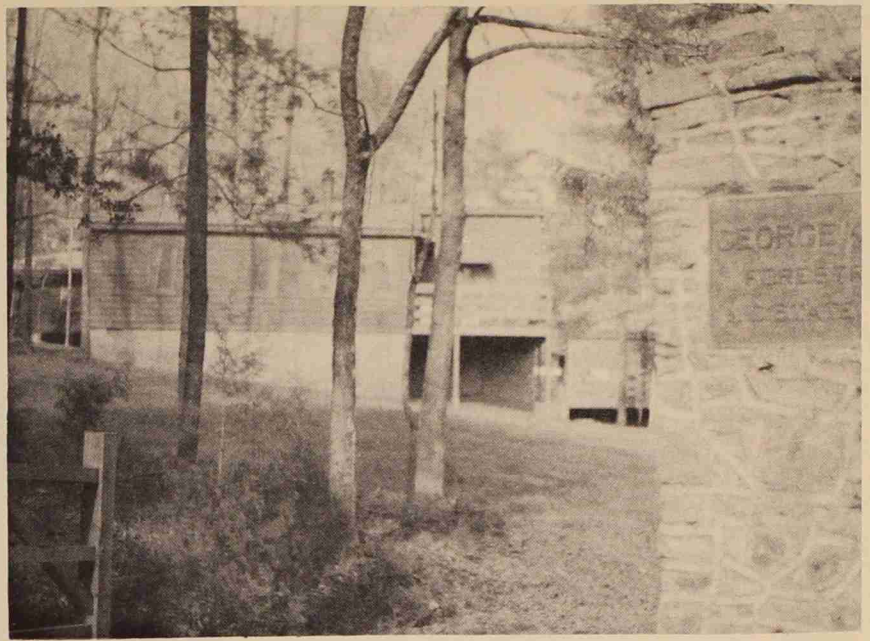
Gary Blank



*If a river has a reason
that man can comprehend
then nature would be the student
and we'd be in command.*

*But a river has no reason
that man can understand
so let nature be our teacher
and let us only lend a hand.*

*William Personette
1979*



THE SCHOOL FORESTS 1979

The big news on the school forests this year is the completion of the \$228,000 construction project at Slocum Camp. New structures include a classroom with seating for 100, an equipment-instrument building, toilet and shower facility, 3 new student cabins, and a caretaker's residence. Finished last fall, the new facilities will be ready for the 1979 camps, including a 5-week wildlife camp scheduled to follow the usual 10-week camp for forestry students. The improved facilities may also prove attractive to other groups for conferences, short courses and the like during the spring and fall months.

A less visible, but equally important project that is nearing completion, is the thorough review of all research studies on our Piedmont properties. Serena Hunter, a graduate student, has spent over a year remeasuring and summarizing the results from the many field plots on the forests, some of which date from the early 1930's. Most of the plots will be maintained for continued observation by forestry researchers, or other interested scientists (this year botanists from UNC and Duke utilized long-term growth plots on the Hill Forest as part of a study of forest succession). New

studies continue to be initiated, and the Hill Forest may serve as the site for a major effort to develop and demonstrate a variety of low cost reproduction methods applicable on small nonindustrial ownerships.

Dr. Bryant's forestry seniors are busy on the Goodwin Forest this spring re-inventorying, and drafting a multiple use management plan. Development of this property is progressing well, and after 10 years of management we're beginning to see the fruits of our labor there. The forest is paying its own way financially, and, beginning next fall, we plan to award a \$500 James Goodwin Scholarship annually to a worthy forestry student.

The 10-12 students who work on the forests each Saturday, plus the others hired over Christmas and spring breaks, continue as our only labor force, and accomplished much again this year. The work experience not only provides them some income, but hopefully makes their classwork more relevant, and will be of benefit in their forestry careers.

Larry Jervis

THE DEAN'S MESSAGE TO GRADUATING STUDENTS

Those of you graduating from any of the several programs of the School will have particular opportunities to increase the standard of living and quality of life for society.

One way to evaluate the standard of living is to assess the the options available to a nation or its citizens. The continuing generation of financial wealth is an essential element in providing options, or, expressed differently, alternative choices for citizens in their way of life. Thus the very poor have few or no real options, and are essentially locked into their existing situation—usually subsistence level living. The wealthy societies have the most options, and hence have the opportunity to bring about changes, hopefully for the better, and provide more services to the citizens.

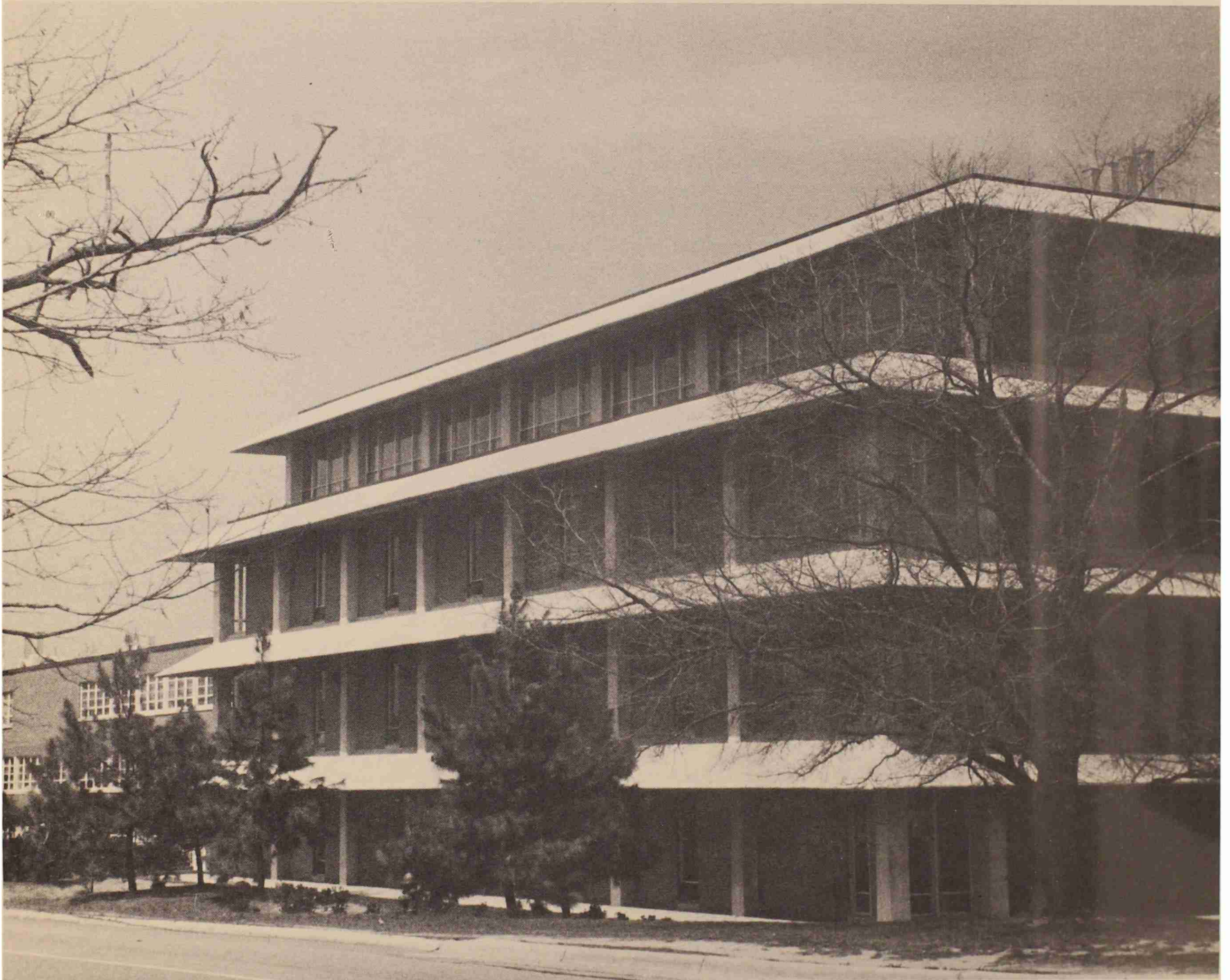
By the very nature of your curriculum choice you have demonstrated an interest in the management and use of natural resources, or in providing a service to people through recreational opportunities.

To help ensure that our society will be able to *have* its options in the future, I would like to identify two charges for you to undertake and persist with.

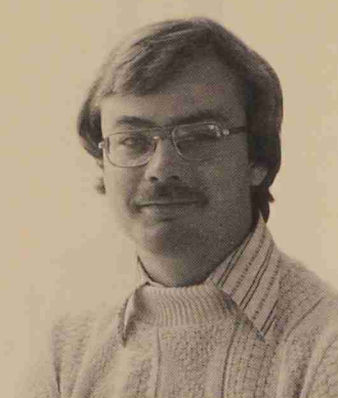
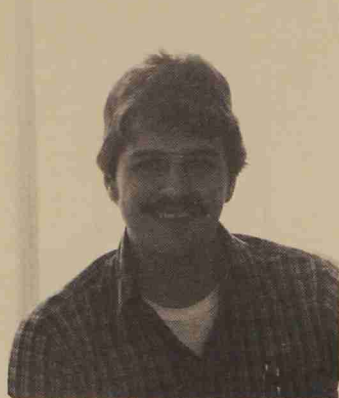
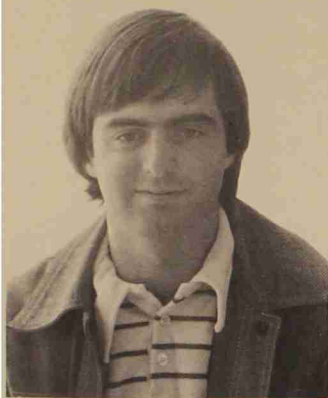
One of these charges is a much wiser use of the natural resources that the nation possesses, not only to generate the needed wealth for the present generation, but to manage these resources so that their values can contribute to mankind in perpetuity.

The other charge is putting the United States of America back on the track of effective productivity—value produced for value received.

These two charges of wise management and husbanding of our natural resources, and of seeking to enhance effective productivity in whatever enterprise you undertake, are what you, as newly graduated professionals, have as opportunities to contribute to the continuing welfare of society.



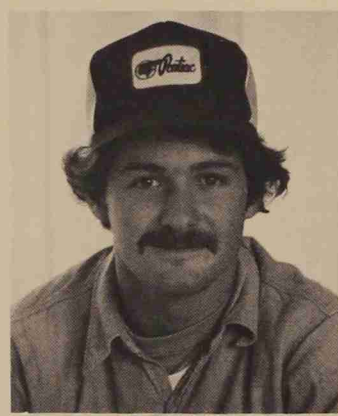
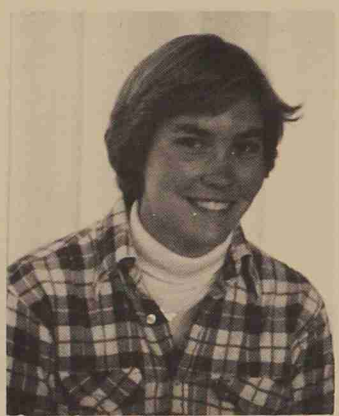
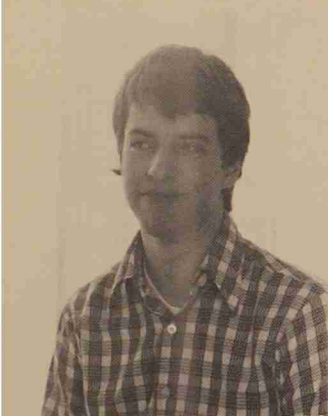
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DAVID ARTHUR ADAMS

NORMAN GREGORY ATCHLEY
Forestry Club

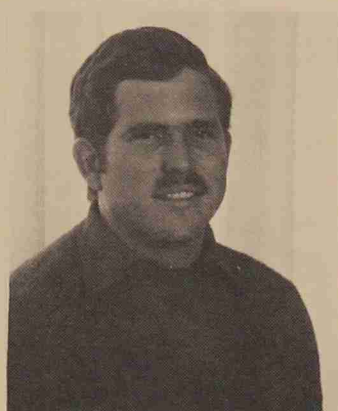
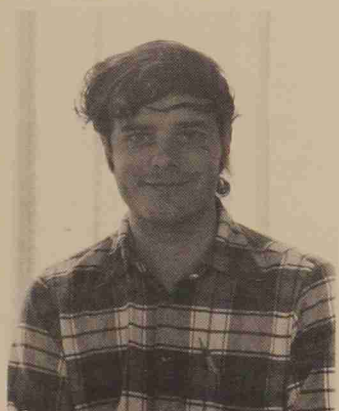
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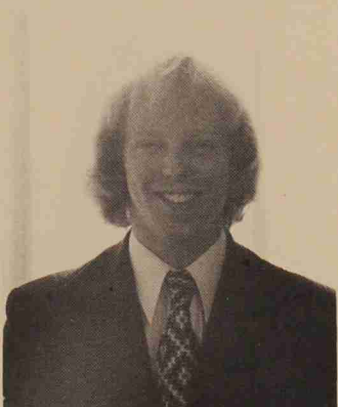
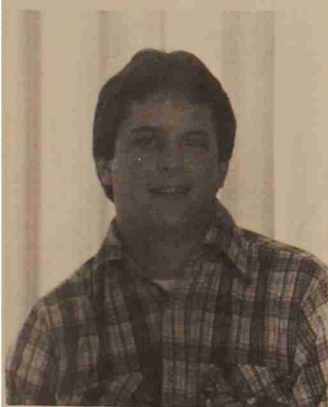
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Xi Sigma Pi, SAF

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FPRS, Pinetum
Forestry/Wood Technology
"Mom"

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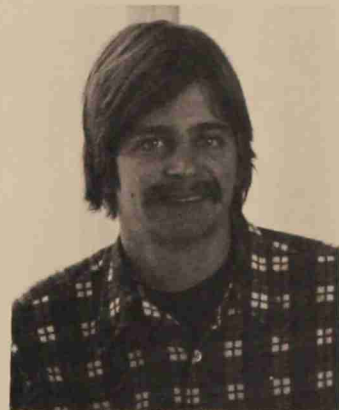


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Forestry Club
"Little Larry"



DONALD BRUCE EVANS

SAMUEL DOZIER FAULK
Xi Sigma Pi, Co-op,
Honors Program
"Sambo"



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Xi Sigma Pi
"Doc"

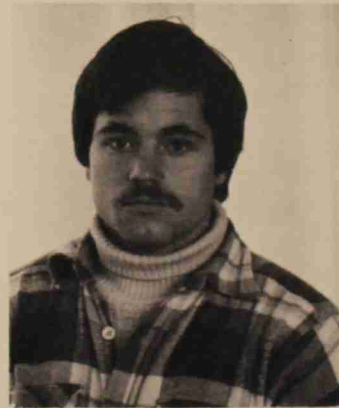
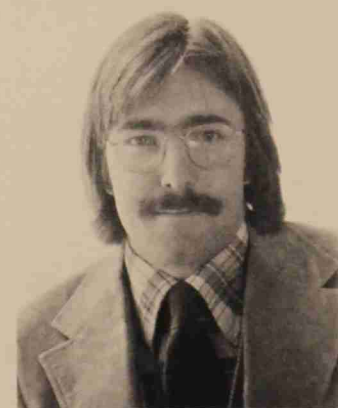
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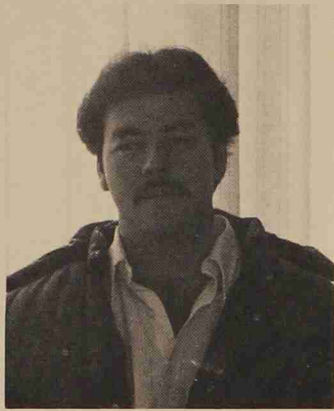
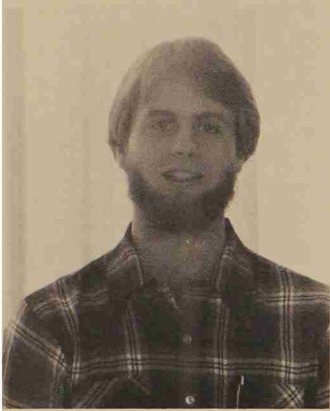
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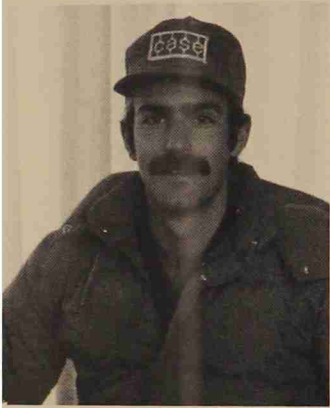
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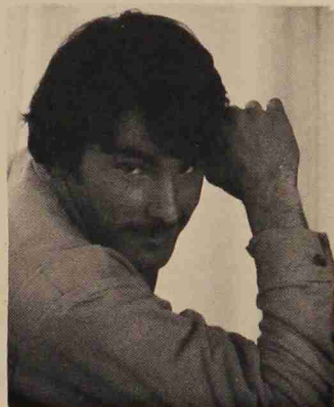
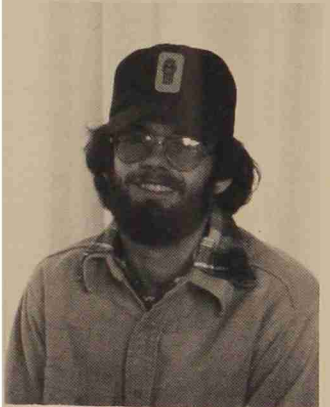
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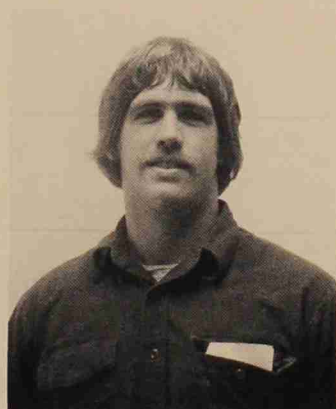
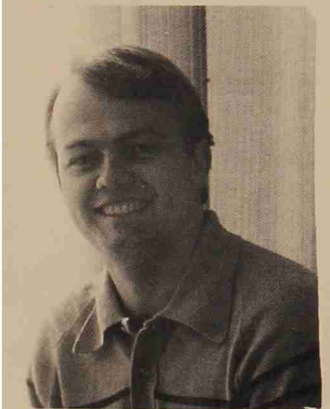
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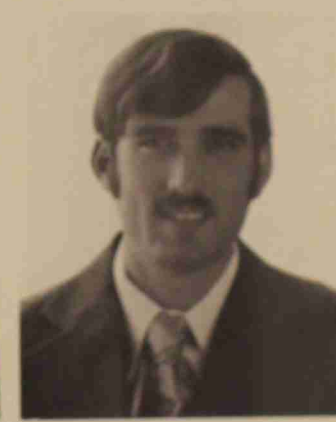


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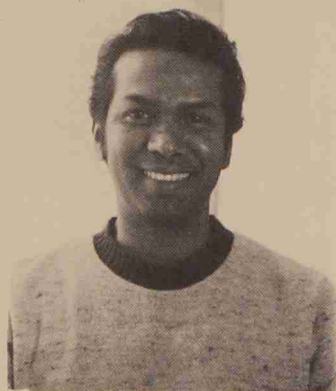
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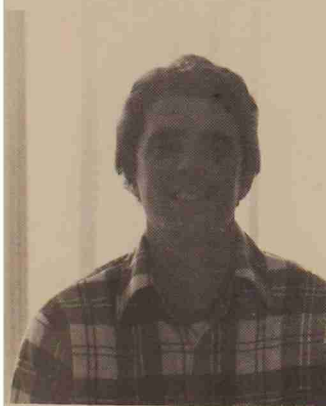
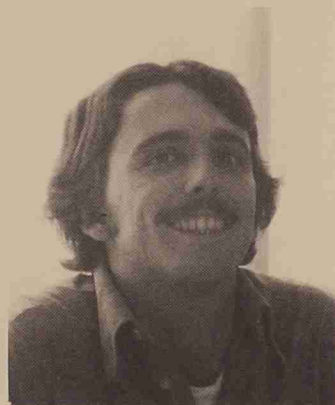
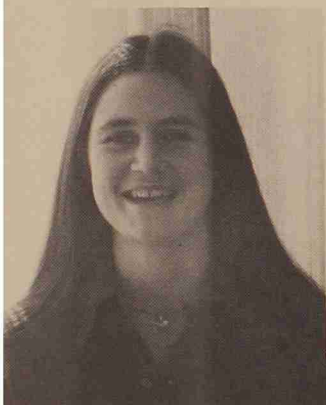
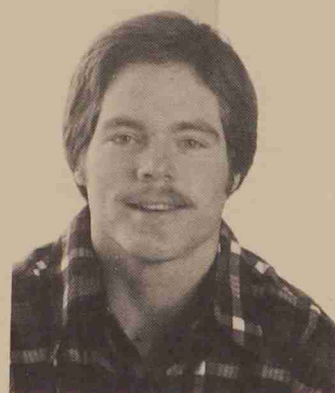
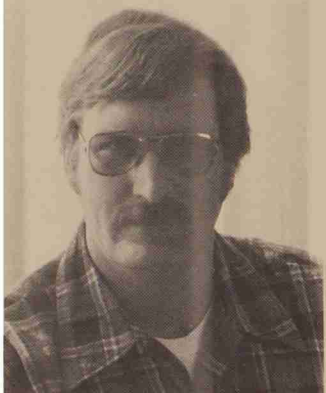
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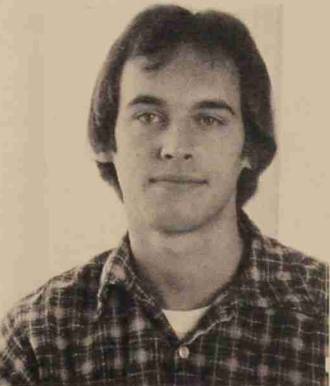
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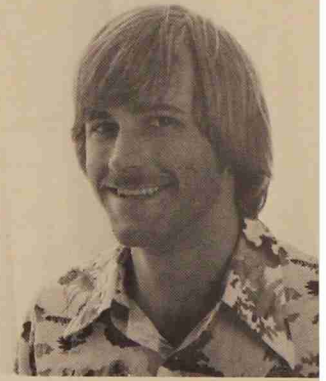
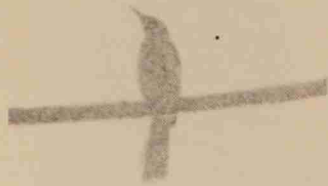
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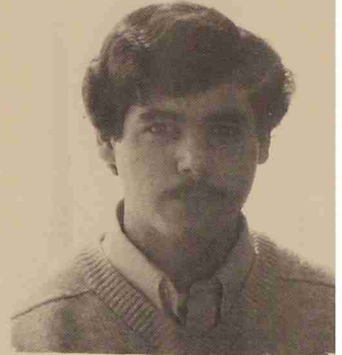
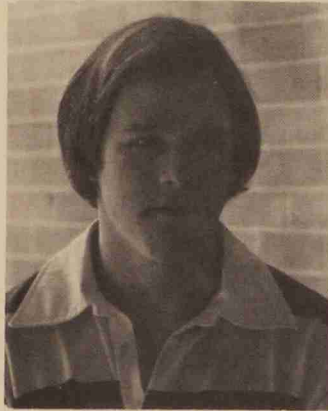
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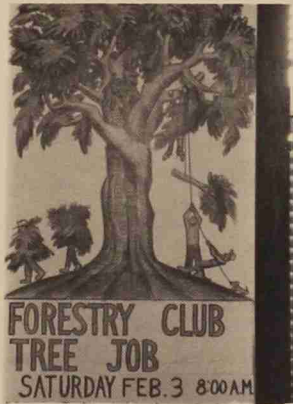


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CHARLES LEONARD WHITE
Xi Sigma Pi, TAPPI

WOOD SCIENCE AND
TECHNOLOGY

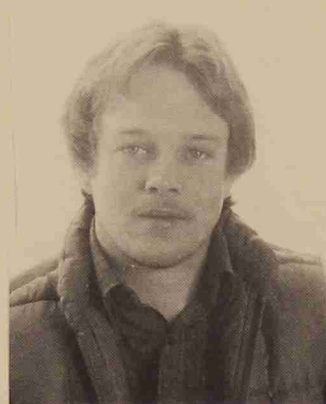
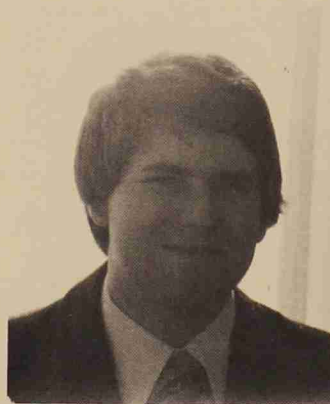
DAN ROBERT BLEDSOE
FPRS



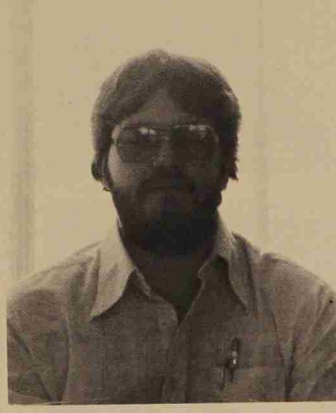
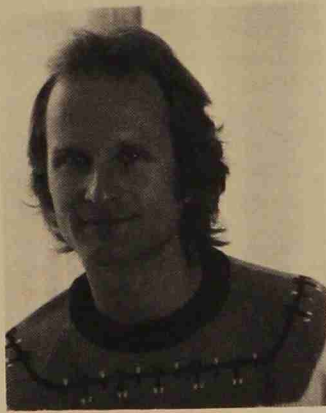
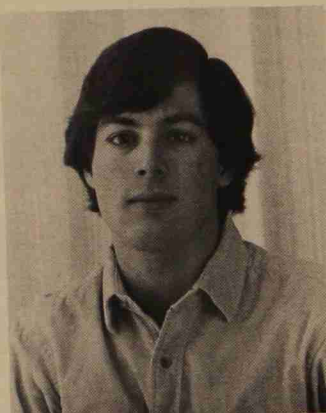
JOHN BRADFIELD
Xi Sigma Pi, Phi Kappa Phi,
Pinetum, FPRS

PETER SQUIRE DEAL
FPRS President

TERRY LYNN ROBERTS
FPRS



CHARLES EDWARD SEATON
FPRS
"Winky"



MICHAEL ANTHONY TINDLE
Xi Sigma Pi, FPRS

THOMAS N. TUCKER
FPRS

WILLIAM WYATT
FPRS

SENIORS NOT PICTURED

FORESTRY

Philip Martin Acuff
William Dannell Brooks
John Bradley Buhrman
Martie Merretta Carson
David Lemay Coats
Harold Henry Collins
Kenneth R. Daniels, Jr.
Keith Edward Davis
Robert T. Dillberger
Charles Ross Douglass
Pamela Jo Early
Timothy Dean Fasolt
Michael Dean Fernandez
Stephen Frank Finnegan
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Thomas N. Hobgood, III
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Philip James Langford
Lynn Alan Larson
Garland Thurston Lee
Richard John Lemere
Gary Edward Lockwood
Louis Hall Lucas
Bruce Ashley Marsh
Victor Loring McIntyre
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Carson Arthur Phipps
Jeff Scott Powell
Robert Jackson Rooks
Connie Elizabeth Scercy
William Harry Simmons
David Smith
Clarissa Bethel Thorne
William Schiavo Tyng
Stuart Stephens Upson
Daniel Levin Vogel
James Louis Watson
Timothy John Whelan
Thomas William Wright
David Woodard Daniel

RECREATION RESOURCES ADMINISTRATION

Karen Alma Atwood
William Steven Bivens
Keith Edward Bolick
Carl Linwood Bowen
Kathryn Louise Bowman
Betsy Jane Brown
James Adams Burt
Glenn Arthur Cartrette
Brad Lee Castner
Philip Warren Clark
Sharon Kay Commee
Curtis Raymond Craver
William Randolph Duren
Victoria Ellen Gardner
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Paul Butler Hawkins
Irving Grantham Hay
Douglas Randolph Hite
Montana Rose Ingold
Mark Alan Kratz
Carolyn Kendr Lewallen
Restituto Lorán, Jr.
Patricia Ann McCullough
Patrick Hurley Mulkey
Beth Anne Pandich
George Theodore Poulos
Larry Clyde Rice
James Westley Sherrill
John Pressly Smith
Pamela Byrd Smith
Jeffrey Lance Spencer
Beverly Kathryn Steagall
Rebecca Lynn Stofan
Janet Lee Taff
Thomas Gilbert Traylor
Larry Wayne Trivette
Anita Susan Varner
Ann Rebecca Vernon
Nancy Elizabeth Watts
Richard Ross Williams

Hal Dean Wilson
Wayne Louis Womble
Jeri Lynn Davidson
Donald Shields Feagan
Albert Paul Gentry
Jeffrey Neal Hunter
Jane Townsend
Paul Ray Powell

PULP AND PAPER TECHNOLOGY

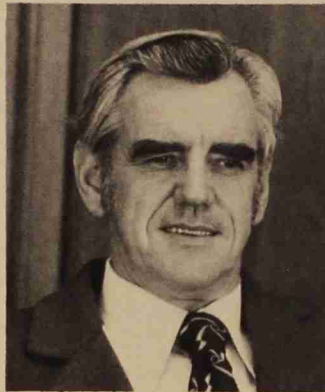
Joyle Moye Anderson
Ethan Kim Andrews
Joseph Lamar Anglin
Jeffery Barden Barker
Mitchell Reagan Baxter
Willie Byrd
Joseph Richard Cable
Robert Terry Canup
Stanley Jay Carlyle
Stanley Warr Carpenter
John Eric Chrise
Brent Allen Collins
William Carro Copeland
Douglas Lee Daniels
Jimmy Lance Duncan
Richard Lee Gibson
John Charles Gill
Ardith Elaine Graden
Michael Harold Holden
Michael Joseph Jacobs
Ted Sherwood James
Philip Howard Jones
Mark Logan Keaten
Gary Lee Martin
Mary Susan Parker
Larry Barron Richard
Robbie Lee Robertson
Walter B. Schultz, Jr.

WOOD SCIENCE AND TECHNOLOGY

Olukorede Aruwajoye
Samuel Manor Gupton
John Charles Knapp
Richard Stephon Seeds
Thomas Pitts Pruitt
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Randal Frank Richard
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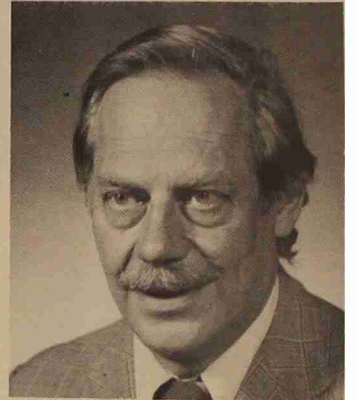
L. C. SAYLOR
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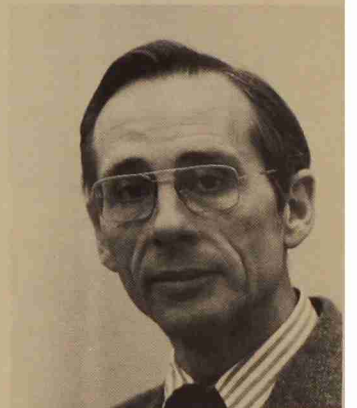
ELLIS B. COWLING
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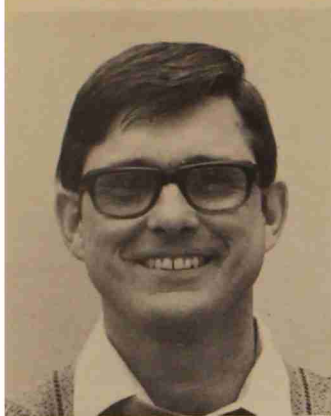


M. ROGER WARREN
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Administration
Professor of Recreation Resources
Administration
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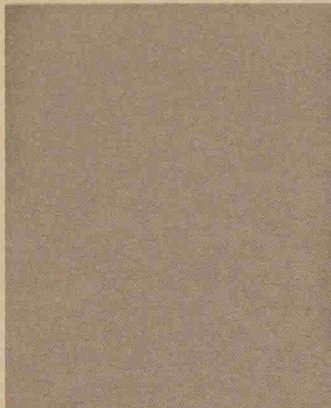
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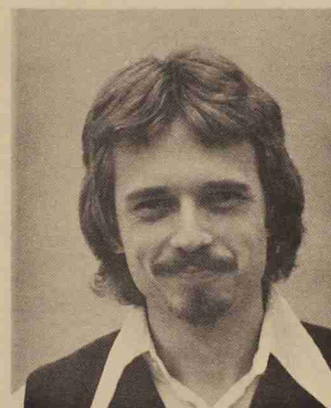
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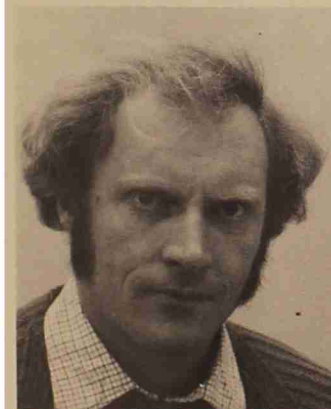
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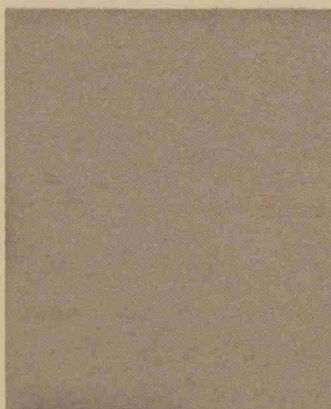
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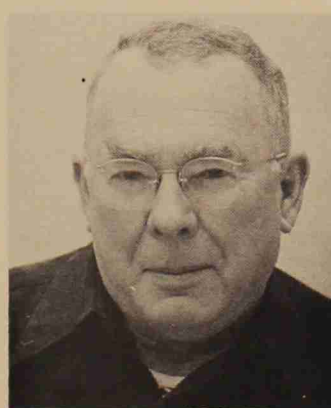
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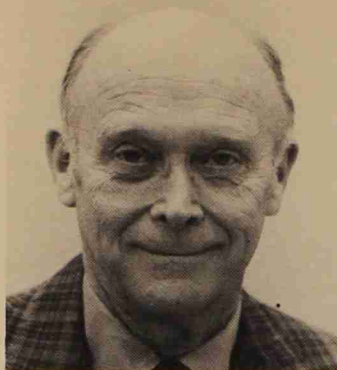
A. C. BAREFOOT
Professor of Wood and Paper Science
Director of University Studies
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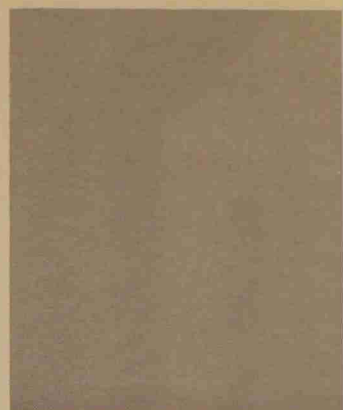
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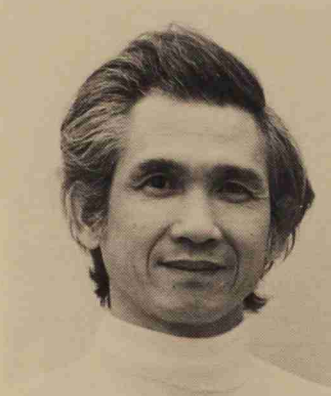
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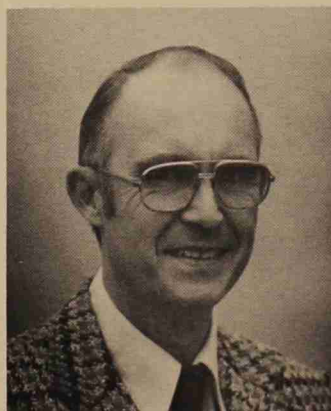
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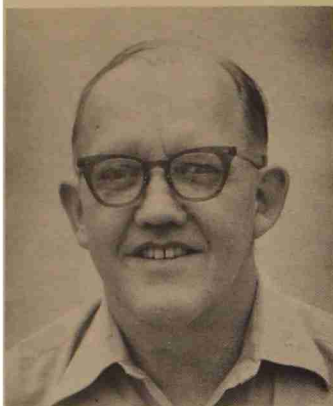


CHARLES B. DAVEY
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THOMAS V. GEMMER
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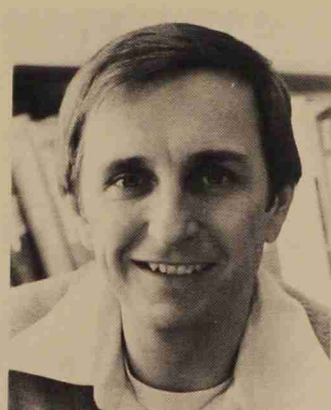
ROBERT C. GILMORE
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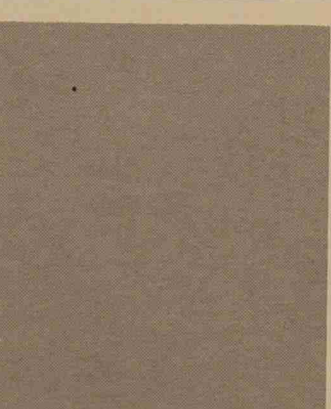
JOSEF S. GRATZL
Ellis-Signe Olsson Professor of Pulp and
Paper Science and Technology
Ph.D., University of Vienna (Austria)



RICKEY A. HAMILTON
Associate Professor of Extension
Resources Specialist;
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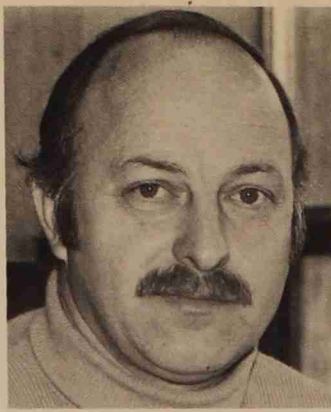
J. D. GREGORY
Assistant Professor of Forestry
B.S., M.S., Ph.D.,
N. C. State University



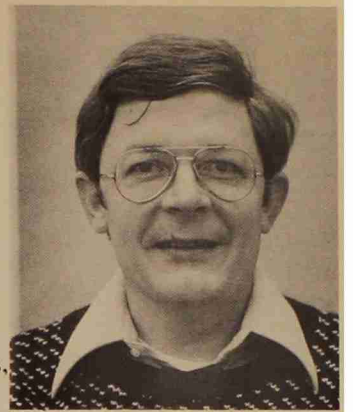
STEPHEN J. HANOVER
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LEON H. HARKINS
Associate Professor In-Charge Extension
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Georgia; M.S., Colorado State University



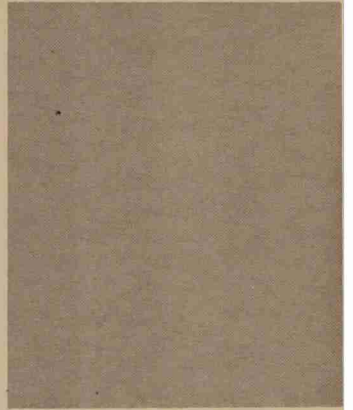
D. LESTER HOLLEY
Associate Professor of Forestry, Economics,
and Business; B.A., Wofford College;
M.F., Ph.D., N. C. State University



C. ARTHUR HART
Professor of Wood and Paper Science
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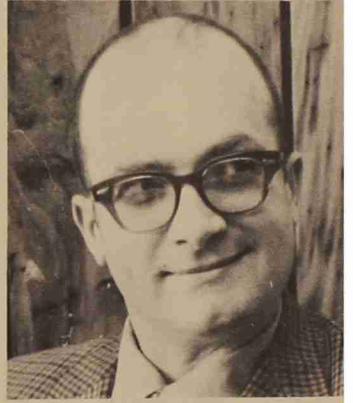
J. L. HUFF
Extension Specialist
B.S., University of Illinois; M.F., Yale
University



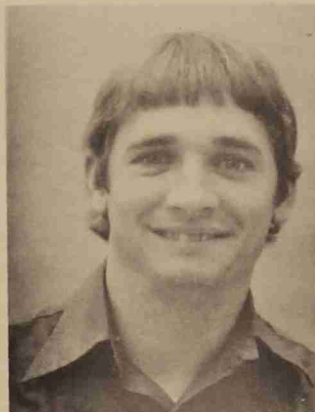
AWATIF E. HASSAN
Associate Professor of Forestry, Wood
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Engineering; and Director of FESC; B.S.,
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Professor, Leader, Forestry Section,
Extension; B.S., M.S., N. C. State
University



DENNIS HAZEL
Research Assistant in Wildlife
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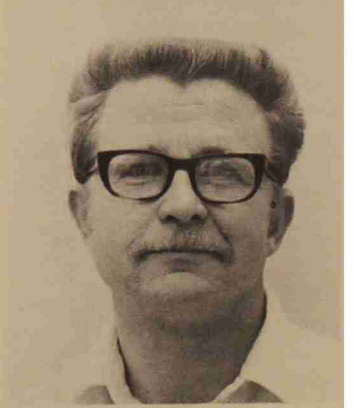
LARRY G. JAHN
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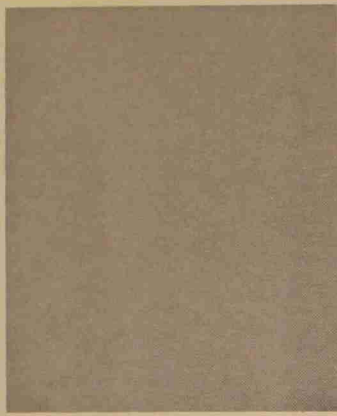


ROBERT G. HITCHINGS
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Technology; B.S., New York State College
of Forestry; M.F., Duke University



LARRY G. JERVIS
Manager of School Forests and Associate
Professor of Forestry
B.S., M.F., N. C. State University





J. B. JETT, JR.
Associate Director, Tree Improvement Program; B.S., M.S., University of Tennessee



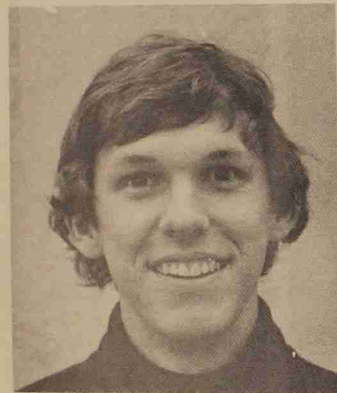
ADRIANNA KIRKMAN
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MIKE KANE
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E. G. KUHLMAN
Adjunct Professor of Plant Pathology Forestry; B.S., University of Wisconsin; Ph.D., Oregon State University



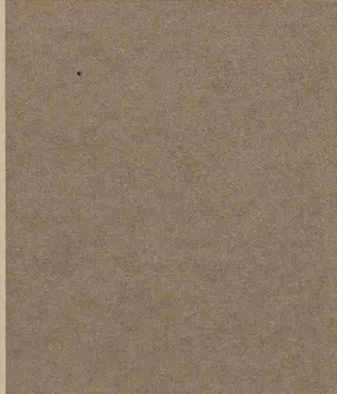
ROBERT C. KELLISON
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B.S.F., West Virginia University; M.S., Ph.D., N. C. State University



JAN LAARMAN
Instructor
B.S., University of Michigan; M.S., M.A., University of California, Berkeley



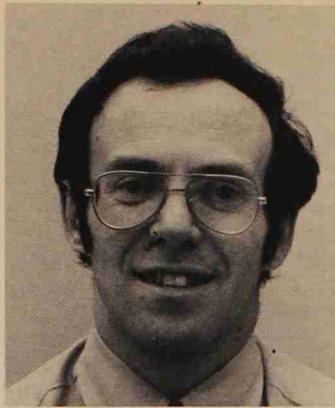
MYRON W. KELLY
Associate Professor of Wood and Paper Science; B.S., State University of New York, Syracuse; Ph.D., N. C. State University



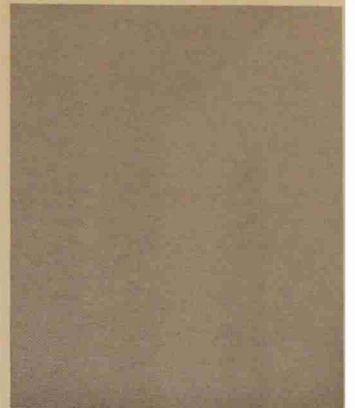
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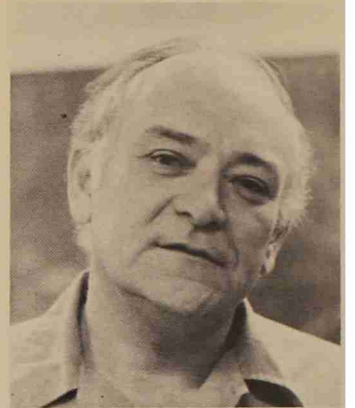
L. J. METZ
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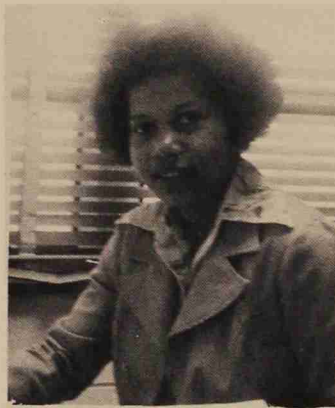
WERNER LONSKY
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 and Forestry; B.S.F., M.S.F., Ph.D.,
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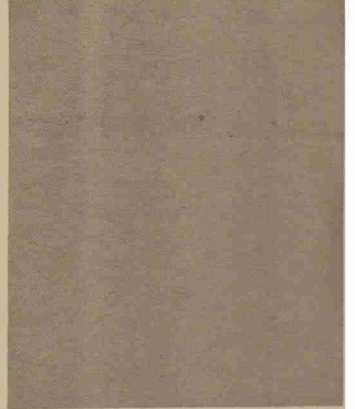
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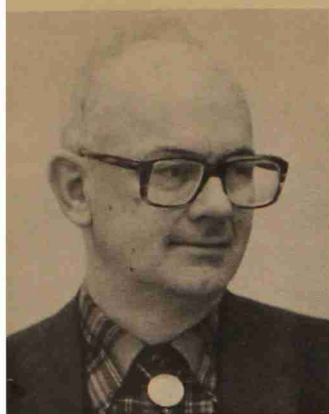


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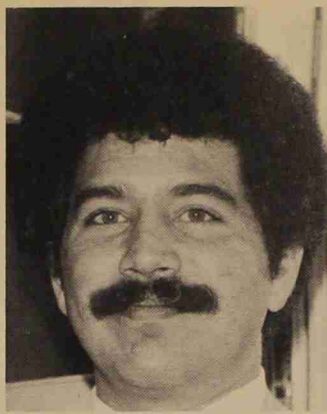


RONALD G. PEARSON
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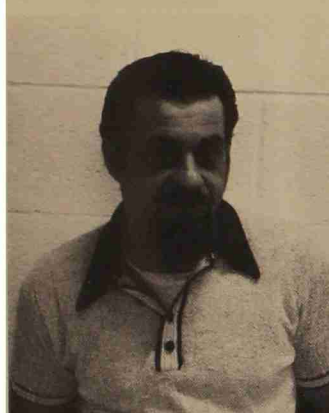




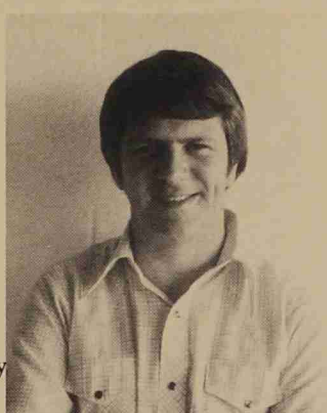
THOMAS O. PERRY
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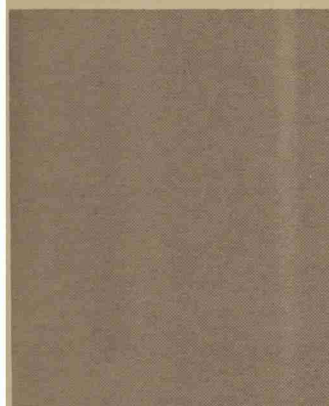
C. D. SIDERELIS
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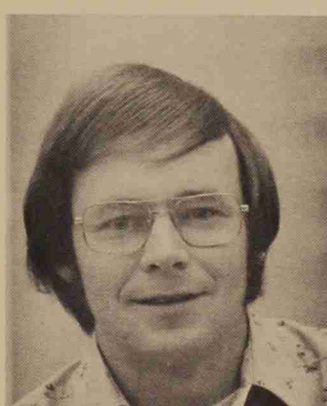
RAYMOND J. PRETO
B.A., Loyola University; M.B.A., University
of Chicago; Ph.D., Illinois Institute of
Technology



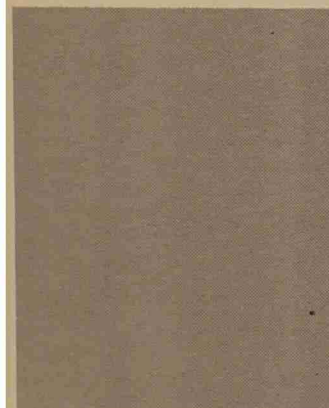
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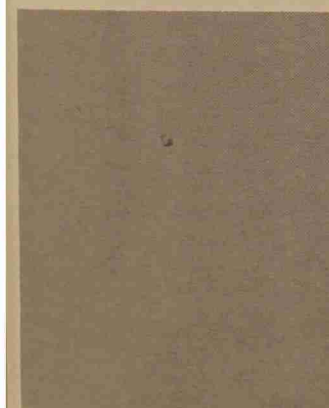
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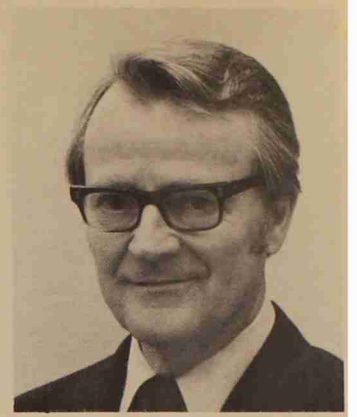
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 Wisconsin



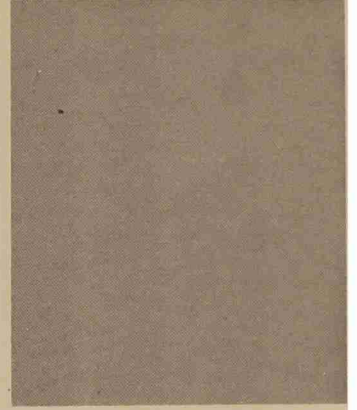
ROBERT F. VOKES
 Visiting Professor of Wood and
 Paper Science, B.S., Syracuse
 University



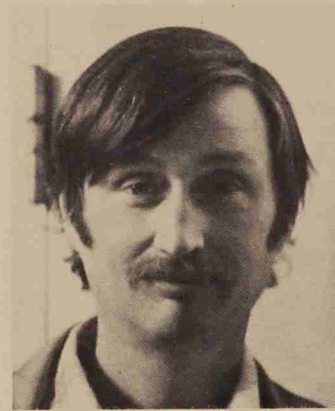
BLANCHE A. STROUSE
 Research Assistant in Wood and
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 Manhattan College



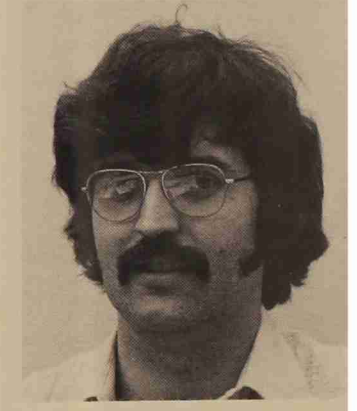
ANDREW J. WEBER
 Assistant Professor, Extension Forest
 Resources Specialist
 B.S., M.F., N. C. State University



ARTHUR L. SULLIVAN
 Associate Professor of Landscape
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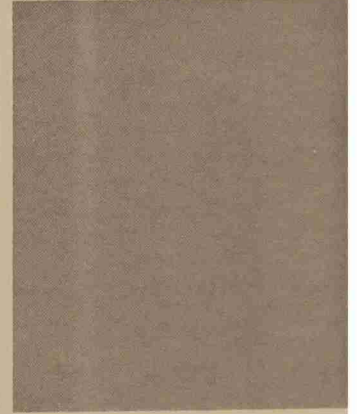
ROBERT J. WEIR
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 Director, Tree Improvement Co-op
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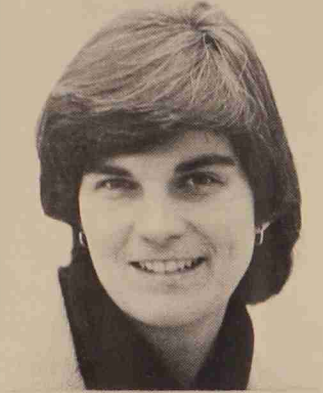




RICHARD F. WILKINSON
Professor of Landscape Architecture and
Associate Professor of Forestry
B.S.L.A., Penn State University;
M.L.A., University of Michigan



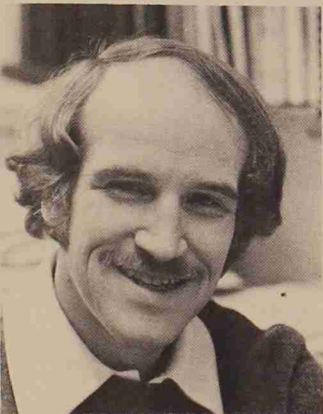
BRUCE J. ZOBEL
E. F. Conger Distinguished Professor of
Forestry and Professor of Forest
Genetics
B.S., M.F., Ph.D., University of
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BETH WILSON
Teaching Technician, Recreation
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B.S., M.S., N. C. State University



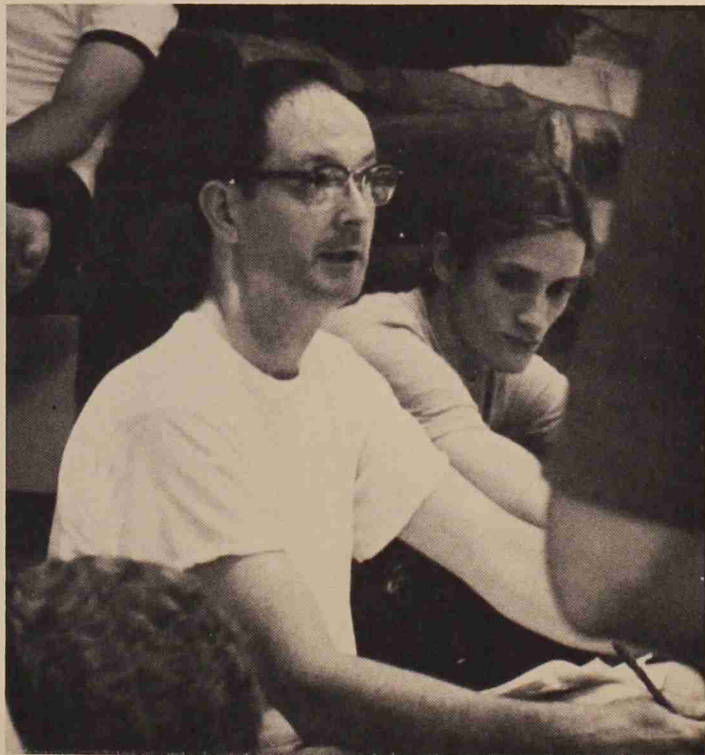
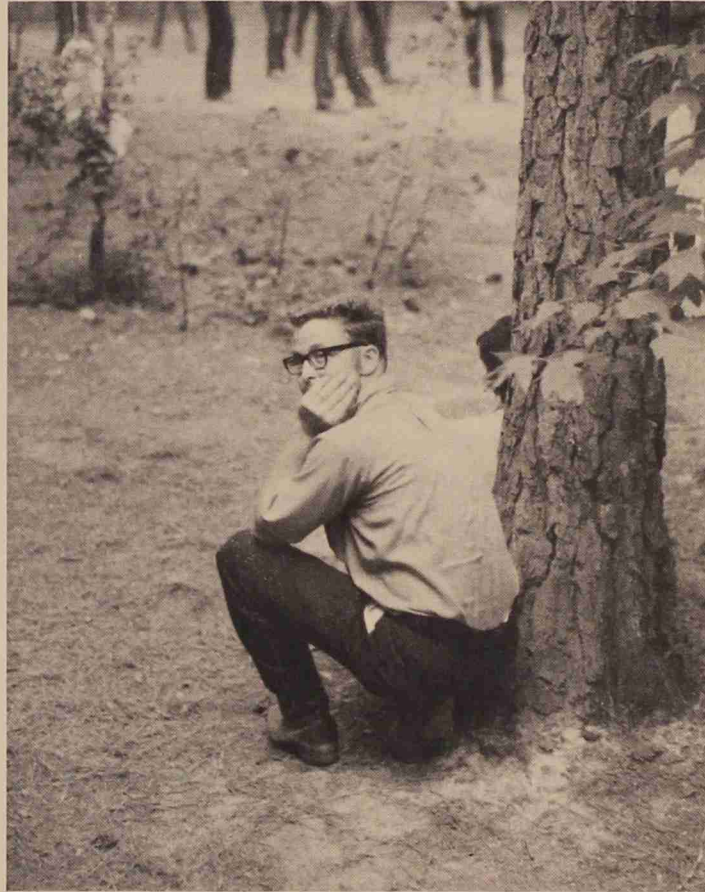
RALPH C. WINKWORTH
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Agriculture Research Assistant



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Secretary, Fertilization Co-op

STAFF



MARTHA HOLLAND
Administrative Secretary



DONNA HOLLIS
Head Secretary, Forestry



KATHY HUGHES
Secretary



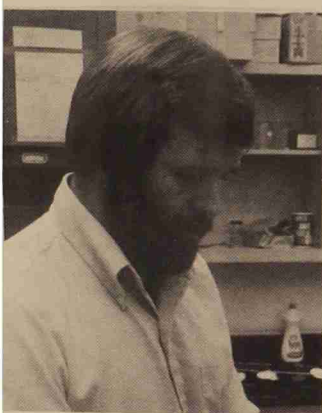
DARNELL JOHNSON
Student Affairs Secretary



DEBBIE JOHNSON
Secretary, Paper Technology



JOAN JOHNSON
Head Secretary, Wood Technology



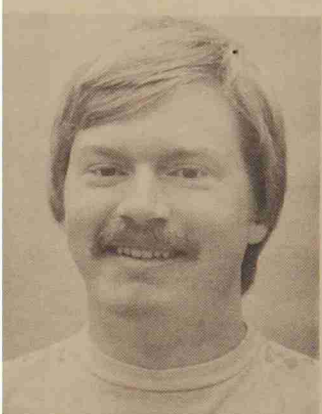
VERNON JOHNSON
Agriculture Research Technician



FRANCES LILES
Assistant Director of Student Affairs



RAY MANN
Agriculture Research Technician



PAUL MARCH
Computer Programmer



MARTHA MATTHIAS
Research Technician



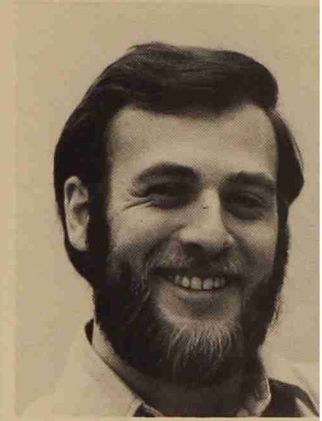
SUE MILLS
Secretary, Extension

**S
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EVERETT MORGAN
Research Mechanic



NANCY ROBERTS
Administrative Assistant



BILL SWINT
Extension Technician

PHYOC ANH TRAN
Research Technician



DEBBIE VINSON
Secretary, Wood Technology



MARY WALKER
Accounting Technician

ELIZABETH WILSON
Research Technician



TAPPI

The North Carolina State University student chapter of TAPPI (Technical Association of the Pulp and Paper Industry) enjoyed a very good year in 1978-1979. Made up of approximately 55 students in the Pulp and Paper Science and Technology program, the club sponsored meetings and activities promoting fun, fellowship, and education for its members.

TAPPI sponsors a picnic each semester at Schenck Forest for the pulp and paper students and faculty. Each picnic comes complete with the world famous Professor Hitching's hamburgers, beer, jungleball, games, and general fun. Regular meetings were held every two to three weeks, and featured speakers brought in from industry. TAPPI appreciates the support of these people.

The TAPPI student chapter has participated in functions of both the Virginia-Carolina and the Southeastern TAPPI sections. Many students attended conferences and conventions where they met industry leaders and learned of new technology.

Early 1979 marked the first association of the TAPPI student chapter with the Paper Industry Management Association (PIMA). N. C. State seniors and juniors were given free membership in the national PIMA organization, com-

pliments of the Dixie Section. Our objective now is to expand club programs to include topics on management problems and philosophy. We give thanks to the paper industry management and PIMA for their interest in our organization.

NCSU FORESTRY CLUB

The Forestry Club took pride this year in sponsoring and participating in its four annual events: the Pig Picking, Rolleo, Logger's Brawl, and Conclave. The Pig Picking featured a plate of pork, cooked by an all-night barbecuing expedition led by Cullen Whitley at the Schenck Forest.

This year's Rolleo proved to be one of the fiercest competitions to date, as the Seniors narrowly defeated the Juniors in the final event. Jimmy Prevette did a super job in supervising and organizing the Rolleo's activities. The final award presentation went to the Club's special friend and long-time technical advisor, W. R. (Mac) McLaurin. This honorary award was given in appreciation for Mac's dedicated service to the Forestry Club.

Spring Semester found the Club preparing for its old-fashioned square dance, the Logger's Brawl. A former member summed up the occasion by once saying it "... featured a good band, good beer, and a good time."

Immediately following this successful outing came the Conclave. This past year the Club traveled to Clemson, South Carolina, and found outstanding facilities. There was a moderate team effort, with hope for improved performance this year at Arkansas. All of the above activities were made financially possible by the Club's weekly tree job outings commanded by Harland "Sir" Bost.



With the semester's end drawing near, the Club searched for new ways to initiate more Freshmen and Sophomore participation. As always, the Club would like to express its appreciation to its advisors, T. V. Gemmer, Mike Harmon, and Mike Williford.

XI SIGMA PI

This year, the Mu Chapter of Xi Sigma Pi was very pleased with its new members and its functions. Xi Sigma Pi managed to keep the tradition of sponsoring the chili and wine tasting and the steak dinner (although this year we had chicken). The senior picnic will also be sponsored this year even though we are currently operating on a very lean budget.

All these functions have been a grand success primarily due to the help of our advisors, Dr. Ralph C. Bryant (Poppa Bear to ya'll) and Dr. Donald H. J. Steensen, who gave generously of their time, wisdom, and even their money. We wish Dr. Bryant the world of happiness in his retirement and truly wish to thank him for the unselfish job he's done over so many years as our advisor. Here's to you, Dr. Bryant. We wish you many more years of luck and happiness!

Tony Doster



RHO PHI ALPHA

Busy as ever, Rho Phi Alpha highlighted its fall by silk-screening tee-shirts, attending the N. C. Parks and Recreation Society Conference, and cosponsoring a "Chicken-Pickin' and Square Dance" with the Rec Club. At their fall banquet, they were fortunate to have Roger Brown, Director of Parks and Recreation in Greensboro, N. C., as their speaker. Eight student pledges and two faculty pledges were taken into the ranks.

Invigorated by the promise of spring, the fraternity danced the night away at a clogging workshop. They also enjoyed a trip to SanLee Park in Lee County, and sponsored a spring picnic. Barry Tindall, Public Affairs Director for the National Recreation and Park Association, graced the podium at the Fraternity's Spring Banquet. Rho was honored to have Mr. Tindall speak, and pleased to induct fourteen pledges.

Especially nice for the fraternity was a trip to the NCRPS Student Mini Conference. After our hard work to make the initial conference a reality and a success last year, it meant a lot to see the dream supported and continued by the society this year. Many thanks to the Appalachian students

FOREST PRODUCTS RESEARCH SOCIETY

The Forest Products Research Society is an organization geared toward gathering and coordinating the knowledge and technical break-throughs in the wood science and furniture manufacturing industries. The NCSU Student Chapter sponsored many activities during the 1978-79 school year. We organized and presented the Wood Science and Technology exhibit during the University's Open House, and held a barbeque picnic each semester. The chapter also raffled off a wall clock, donated by Gravely Furniture Company. Monthly meetings featured speakers from the forest products industry.



who took on that challenge.

The fraternity also extends thanks to Miss Beth Wilson for a fine year as our faculty advisor, and to our own members who have made this a rewarding and memorable year for each other.

THE FORESTRY COUNCIL

The purpose of the Forestry Council is to promote unity among the students of the different departments in the School of Forest Resources, to provide a body to administer and budget the student funds allocated to the school, to encourage cooperation and communication between students of the school and the university at large, and to consider items of common or individual interest to the departments in our school.

The Forestry Council of 1978-1979 has directed its energies toward several projects:

1. The creation and completion of a bulletin board in the main lobby of Biltmore Hall.
2. A calendar of events which each club submitted for the use of all in future scheduling.
3. The distribution of teacher evaluations and also the selection committee for outstanding teacher awards.
4. And lastly, the Pinetum, which the council made possible by allocating the funds needed.

N. C. STATE STUDENT CHAPTER OF THE SOCIETY OF AMERICAN FORESTERS

This year marks a turning point for the SAF in many aspects. The first change is that new officers were installed at the beginning of each semester. The fall officers were: Chairman Doug Whitman, Vice-chairman Kitty Eberle, Secretary-Treasurer Tom Wright, and Forestry Council Representative Susan Whoerle. At the start of the Spring semester the following officers were installed: Chairman Susan Boggs, Vice-chairman Lynn Branberg, Secretary-Treasurer Joe Cox and Forestry Council Representative Susan Whoerle. This semester has been an uphill battle to spark new interest in the chapter, but a concerted effort to line up a speaker for each meeting has increased attendance considerably. Out of six scheduled meetings, four speakers were lined up. The topics ranged from thinning and fertilization of southeastern plantations, to how Section 208 will affect forest management practices, to South American forest practices. Hopefully future officers of the SAF will follow this method to generate interest as it has worked well this semester. All told, despite the usual interest problems, the SAF here at N. C. State appears to be holding its own.

Joe Cox
Secretary-Treasurer

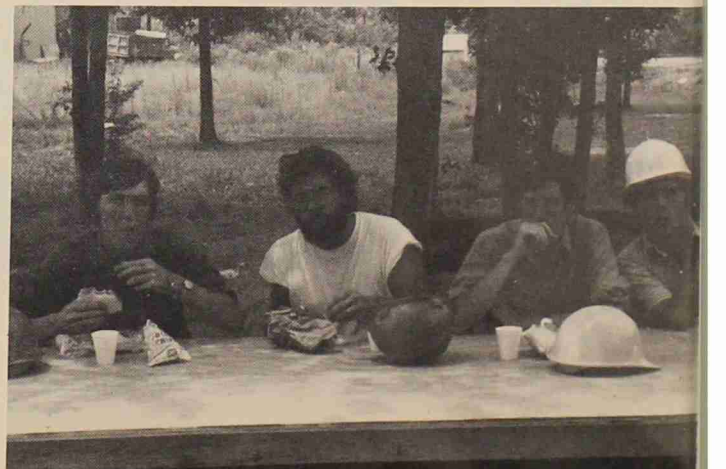
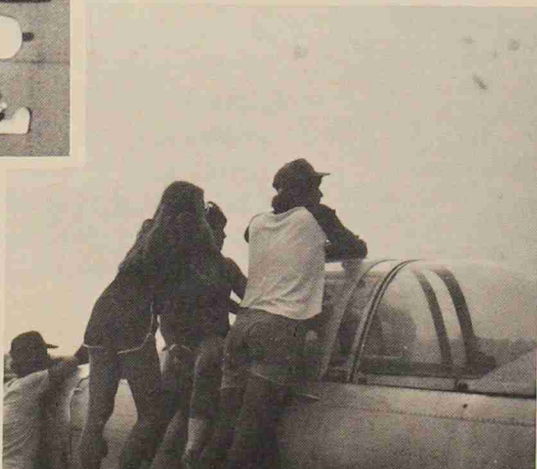
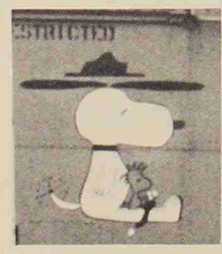
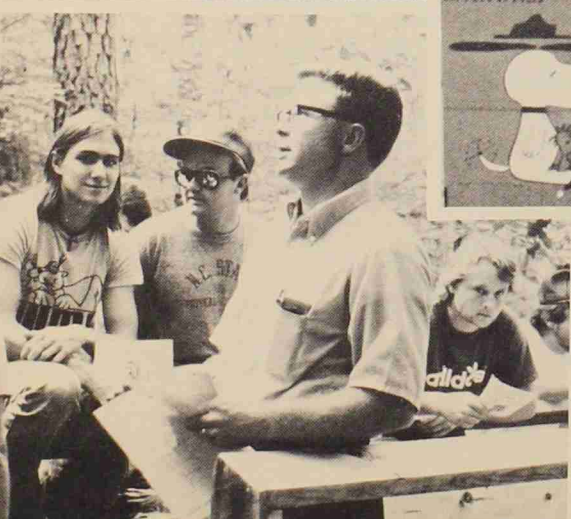
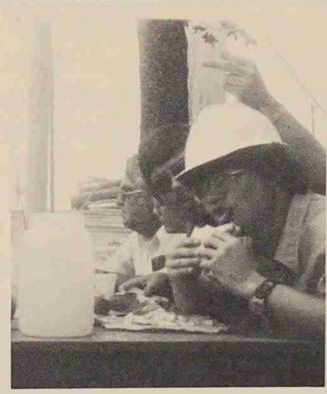
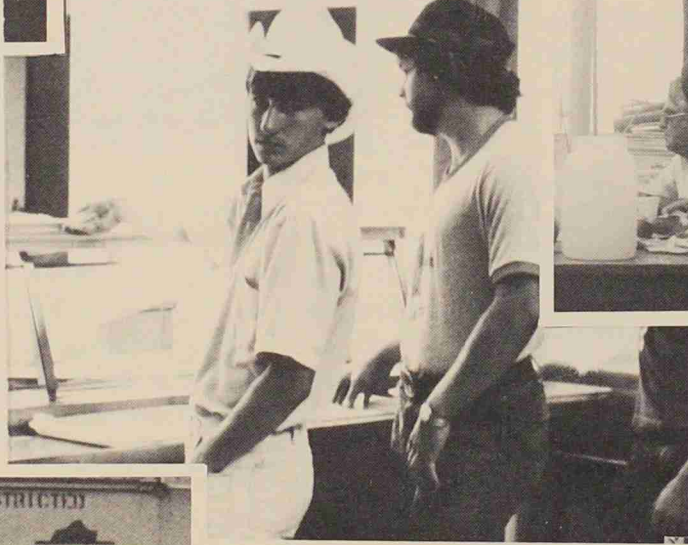
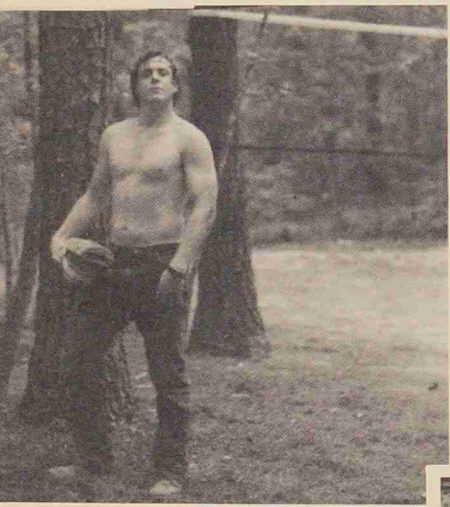
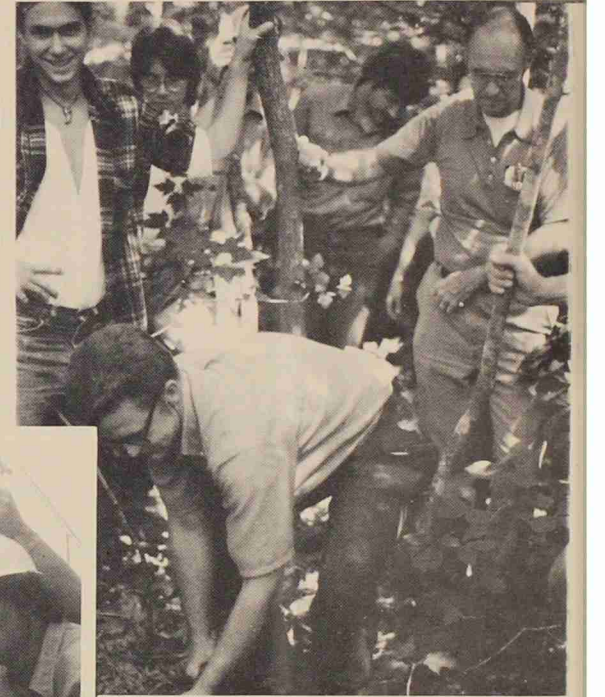
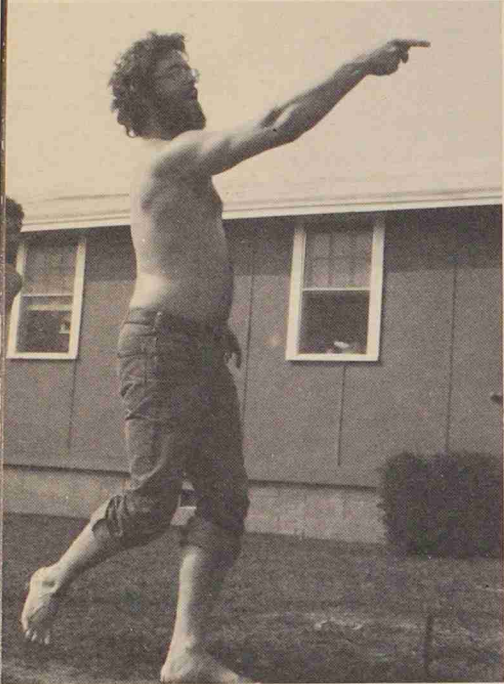
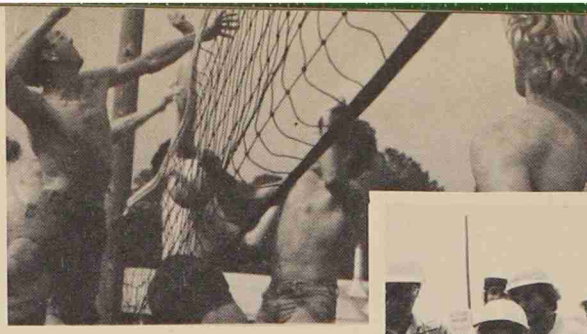
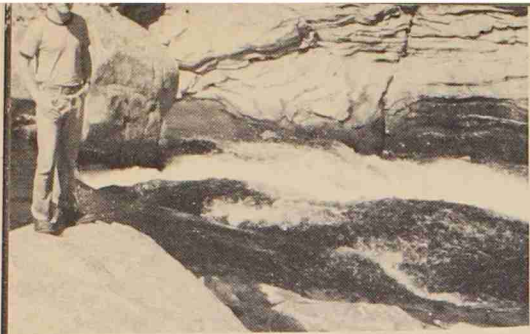


FRAGS

FRAGS (Forest Resources Association of Graduate Students) is the oldest and most cohesive graduate student association on campus and is composed of graduate students from Recreation, Forestry, and Wood and Paper Science.

FRAGS has two main functions: to provide information to prospective graduate students and make their transition into Raleigh and NCSU as smooth as possible; and to act as a liaison between the graduate students and the administration. Healthy channels of communication between these two groups are now open, channels which can provide a means for creating and maintaining an environment conducive to quality academic and research goals.

Mike Harmon
FRAGS Chairman





SUMMER CAMP—'78

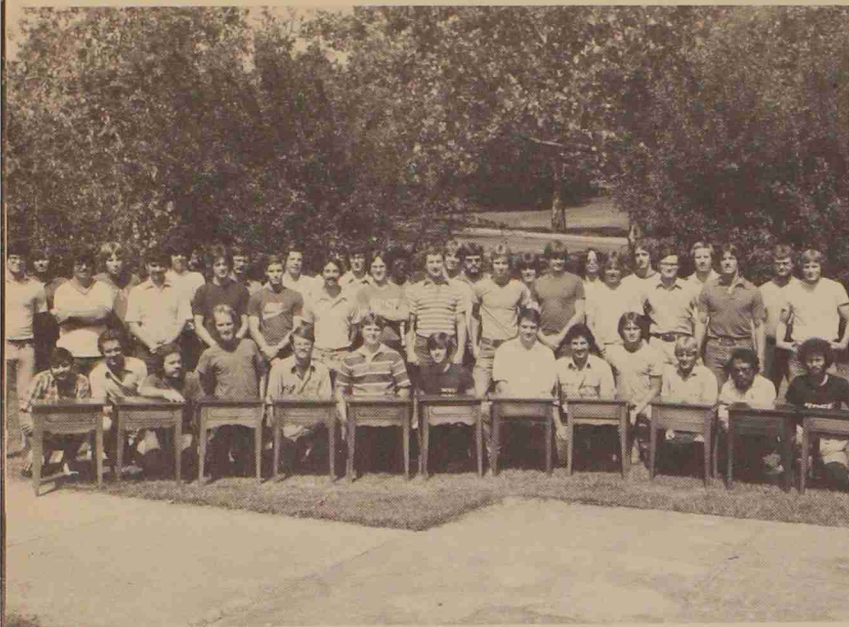
Summer Camp, '78. The very words kindle a mixture of feelings and memories in those of us who made up that camp that summer. Warm feelings of friendship, fun, and the special sense of accomplishment that comes from the completion of a difficult task with others—these emotions are certainly stirred at the mention of Forestry Summer Camp. But as in any relationship (and Camp *is* an experience in relationships), there were facets that aren't so pleasant to reflect upon. So, we also experience relief at the mention of Camp—relief that it is completed and done. And we trust that the pain and difficulties will sweeten and heal with time, that we might gain understanding and perspective on a truly rich experience.

Just what *did* make up the experience? Many things, really. From that first cold May morning, shivering in the cabin classroom, through unending boundary and cruise lines together (to the nearest tenth of a link), through the sweltering heat of that concentrated week at fire school, the desperate gathering and trading of bugs, bugs, and more bugs, to those final, few days of mountaintop reflection (appropriately set at the top of Eastern America), and through all the private, individual relationships and learning that happened along the way—it was valuable, and good.

Summer Camp was extremely practical, "hands-on" education, at a level of intensity and worth that most of us had not experienced before. Some of this value stems directly from the physical format and structuring of Camp itself. But most of the true meaning and lasting value of an experience is communicated through the people who made it up, administered it, and saw it through to completion. In this regard, we will long remember and benefit from the light-hearted, usually "pithy" instruction (nay verily) given by our silviculture instructor and camp director, Larry Jervis. He did a good job. Nor will we forget the sensitive, yet thorough and firm, instruction we were given by Allan Houston, who was called in at the last minute to take on the heavy challenge of instructing the course in Mapping and Mensuration. He excelled in the task, and most of us learned a great deal from him. There were others, too many to mention here, with whom we shared and learned much, people we will not forget.

Wherever we go in our careers, Summer Camp '78 will remain in our memories as a unique time of fellowship and learning. And perhaps the greatest lesson we learned is that this business of Forestry is learning how to work with people, as well as with trees.

Bob Towe



THE SUMMER PRACTICUM

The practicum can be considered as the real introduction to the wood science field. After semesters of classes, students finally get a chance at handling the product they have heard so much about. The instruction covers the fundamentals of working with wood and the manufacturing techniques common to the wood industry. Sometimes the field trips get a little long, but seeing the process of production is part of the learning experience.

All the wood science majors have a chance to get acquainted with the people in our "sister major", furniture engineering. The atmosphere is relaxed (few tests), and everybody enjoys doing the annual night stand project. Five weeks pass quickly (unusual for summer school), setting the stage for the 210 requirement—work.

Charles Seaton



A WORTHWHILE EXPERIENCE

Each student in the School of Forest Resources is required to participate in a professional work setting for at least ten weeks prior to their graduation. This is an extremely beneficial requirement since the opportunity allows students to apply classroom studies and to "get-a-foot-in-the-door".

The RRA internship program allows each student to select the setting and agency of his/her choice as long as the agency is within the pre-set radius, meets the university requirements, and agrees to the internship contract.

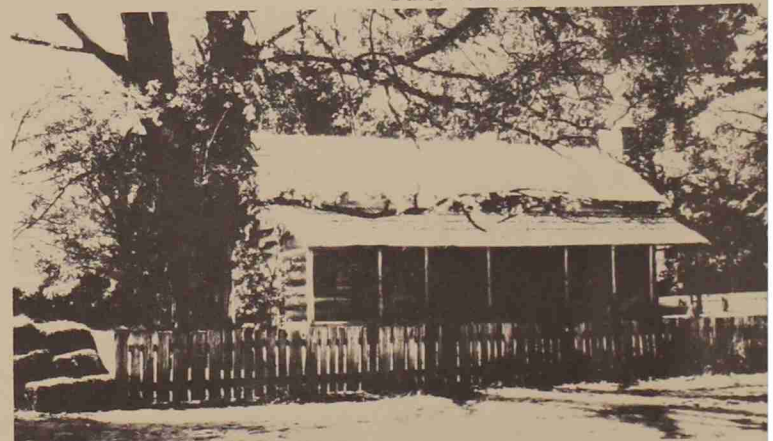
These internships are usually for the summer before the senior year although more students are choosing a Fall or Winter internship. Besides submitting weekly reports to the university supervisor, each student must compile the internship experience in a final written report and slide presentation.

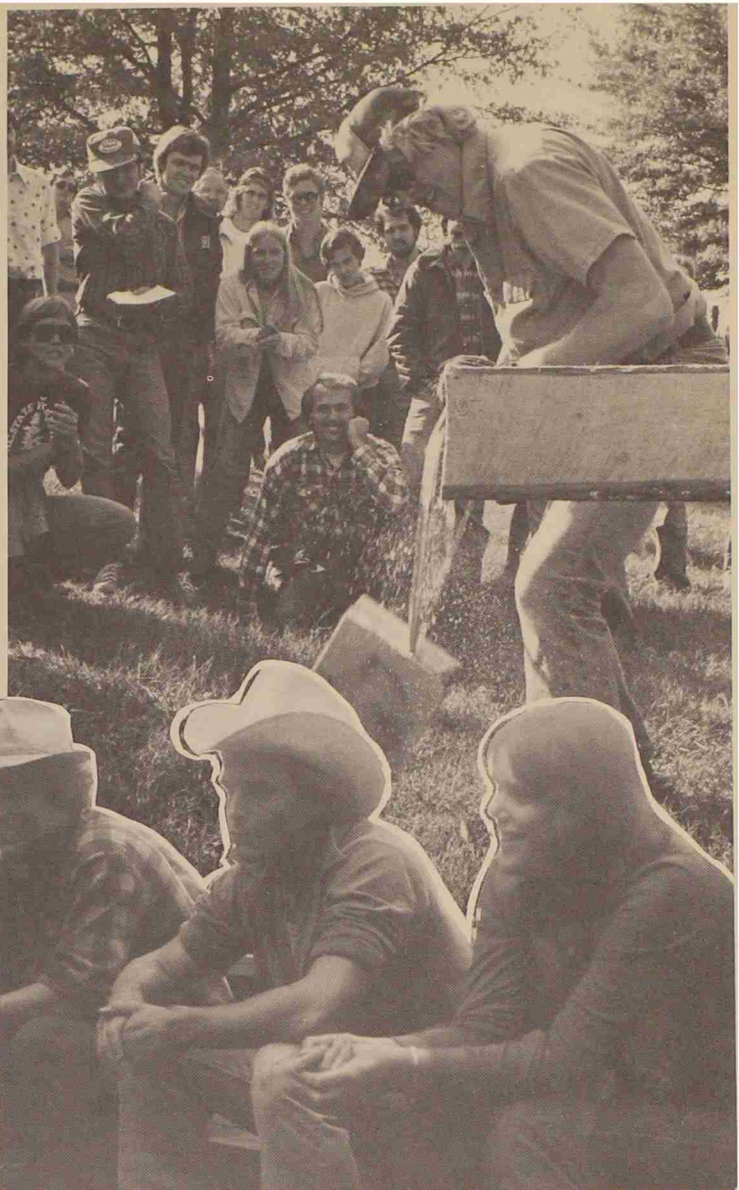
Last Fall I was in western Tennessee and Kentucky working for the Tennessee Valley Authority at Land Between the Lakes (LBL). This national recreation, education, and demonstration area is a 170,000 acre heavily wooded peninsula surrounded by Lake Barkley and Kentucky Lake, two of the largest manmade lakes in the nation. LBL operates under a multiple use concept employed by foresters, wildlife managers, engineers, environmental educators, and recreators.

In addition to attracting campers, hikers, bikers, hunters and wildlife observers, LBL also sponsors all kinds of research and workshops that interest many professionals and universities. Some of LBL's unique features are the herd of buffalo, the living history 1850's Homeplace, the Environmental Education Center, the Off-Road-Vehicles area, and a modern group camp with dorms that can house 128 people.

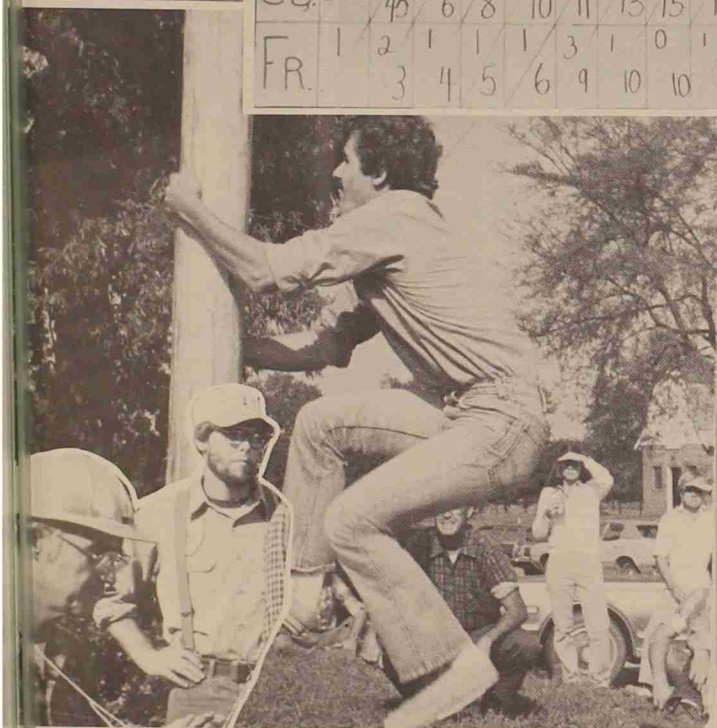
I was fortunate to work at LBL, and I hope every student has as worthwhile experience as I did.

Linda Weis
RRA Senior





	LOG ROLLING	BOW SAW	POLE CLIMB	MEN CROSS CUT	BIRL	KNIFE THROW	AX THROW	WHEN CROSS CUT	SPEED CHOP	CHAIN THROW	FELL TWITCH	PULP TOSS	TOTAL
SR	8 ²	4	4	3	3	4	3	3	4	4	2	4	40
JR	4	3	3	4	4	2	4	4	3	3	1	3	38
SO	2	1	2	2	2	1	2	2	2	0	4	2	23
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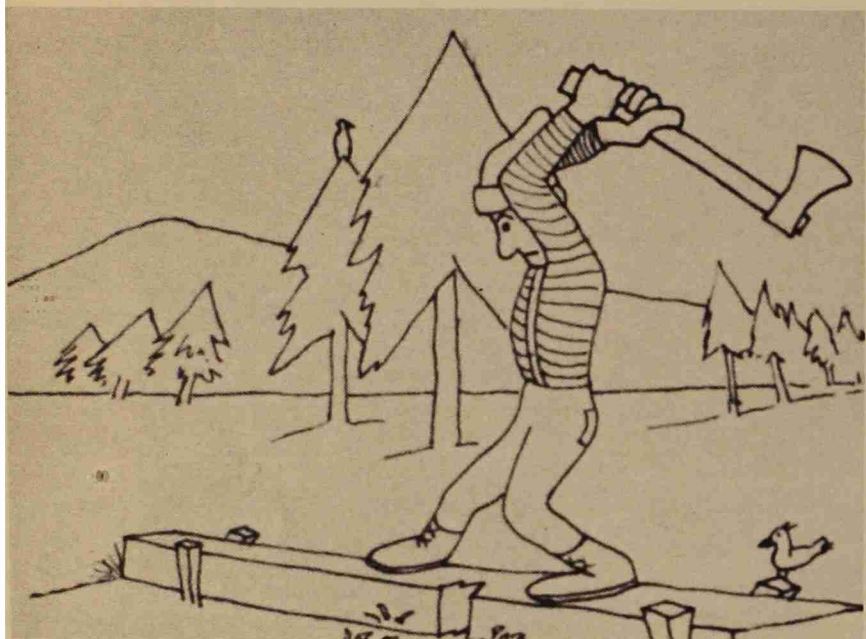
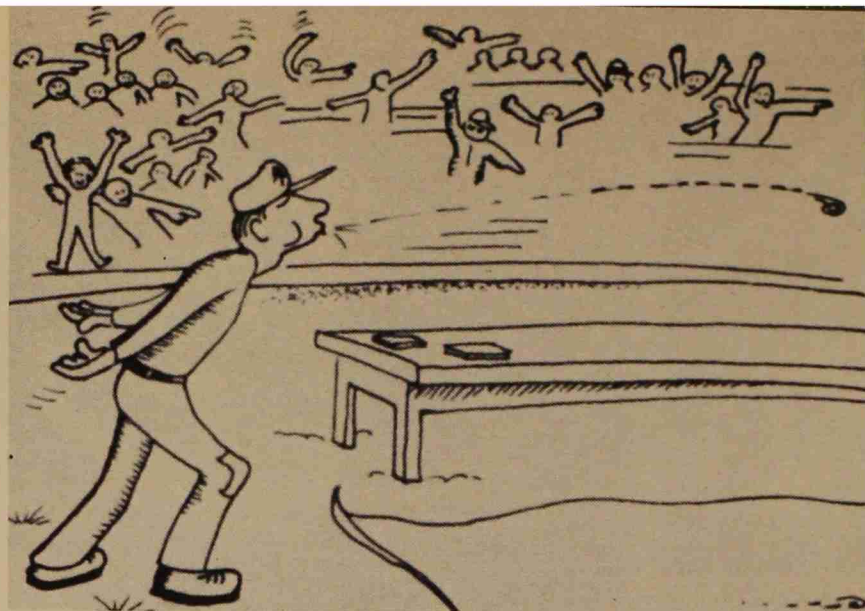
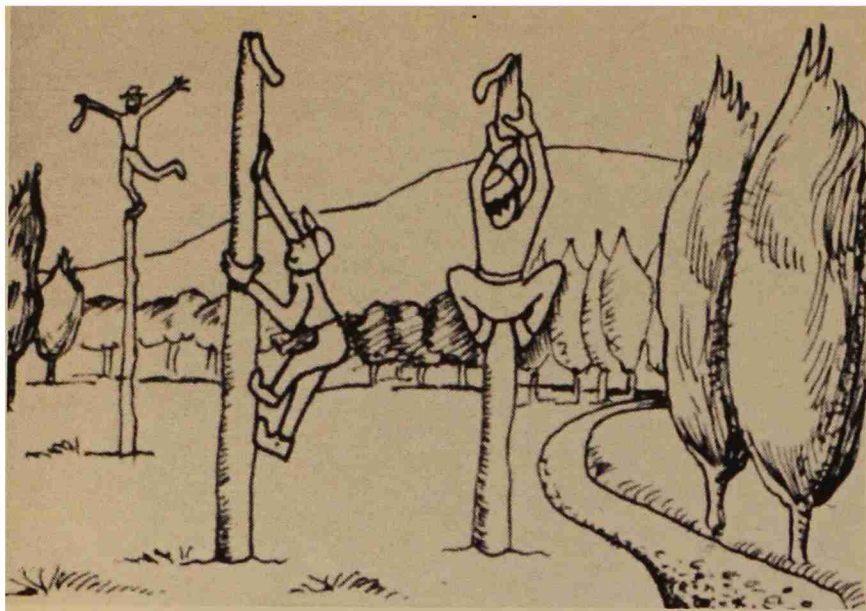
ROLLEO 1979

Rolleo 1979 dawned as an uncharacteristically nice day. The bright sun served to warm the late October day and add fire to the competition. This was one Rolleo where birling was not going to be quite the misery it usually was!

Due to the excellent planning of Rolleo chairman Jimmy Prevette and the timely arrivals of judges Davey, Perry, Farrier, Gemmer, and Mac Laurin, the events began on time. Once started, there would be no stopping the events. All competitors were "up" for their events. The freshman team, which for awhile seemed as if it would be manned by 1 brave soul, turned out with flying colors and stout hearts. The sophomores, with a year of experience behind them, proved that the year had not been wasted. The juniors, well, they were a whole story unto themselves. They were bound and determined that this would be the year of the JUNIORS. Unfortunately, fate was not with them. Once again, the SENIORS decided to end their Rolleo careers in the fitting fashion. Paced by Bob Ernst, Harlan Bost, and Joe Boncek, the seniors squeaked out a victory in the traditional Rolleo fashion. The last event was the deciding factor.

This Rolleo was no different from others in one respect; it was the scene of victory for a few, and of vast disappointment for many others. But it was great fun for spectators and competitors alike, and in the proper tradition of all former Rolleos, it left one looking forward to ROLLEO '80.

Susan E. Boggs



1979 CONCLAVE

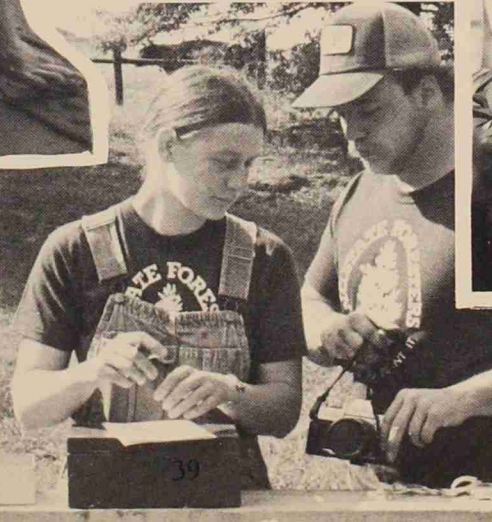
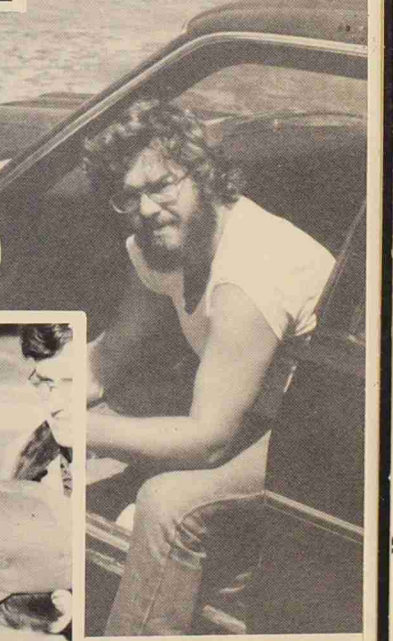
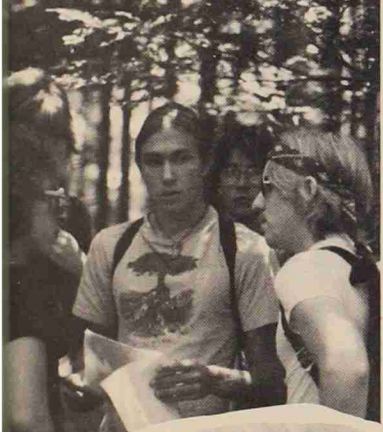
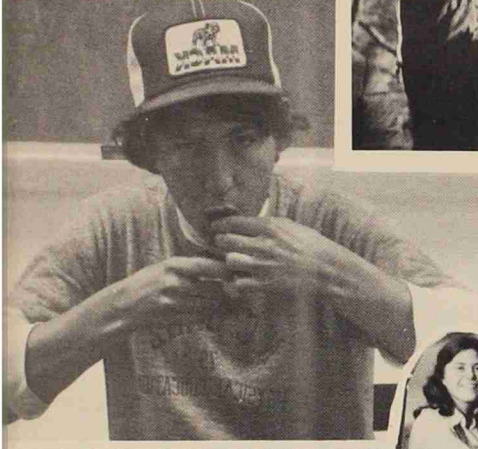
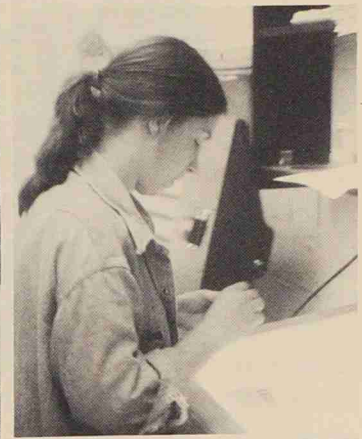
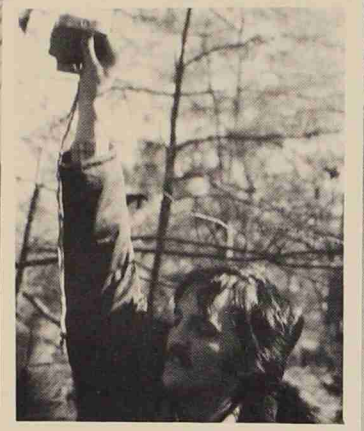
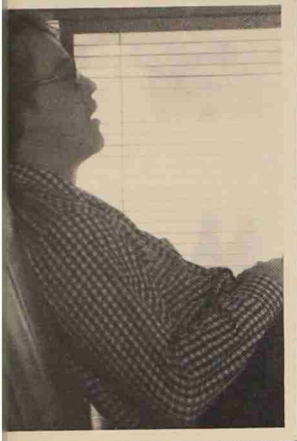
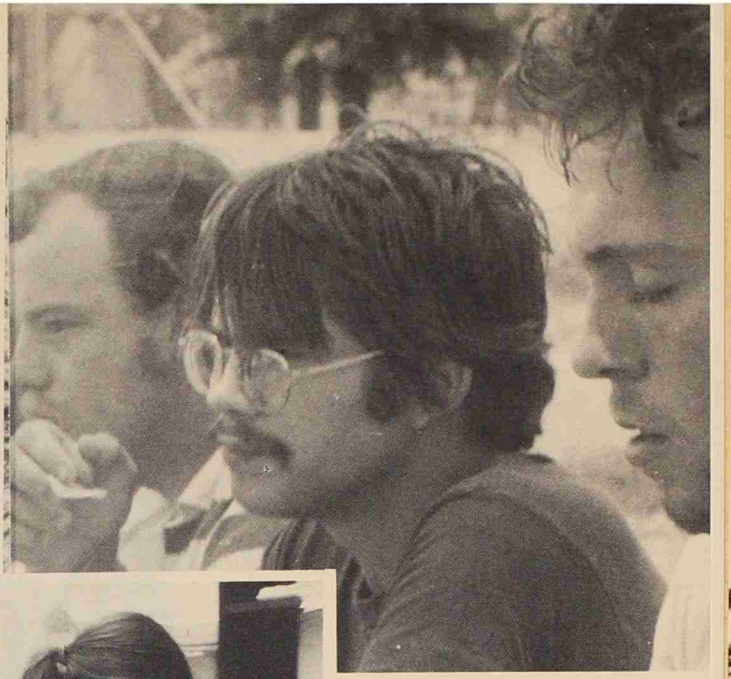
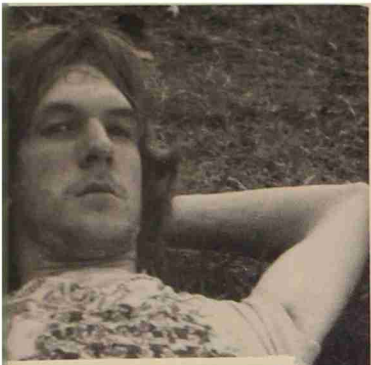
Twenty-nine Forestry Club members, along with two faculty advisors, attended the 22nd Annual Association of Southern Forestry Clubs Conclave held April 5-7. The University of Arkansas at Monticello was the host club. Competition was keen and fellowship fine during the three days of festivities.

Under the leadership of Jimmy Prevette, Conclave Chairman, our club brought home the second place team trophy with 223.75 total points, a vast improvement over last year's eighth place finish. The many hours that each participant spent in practice paid off

On Saturday afternoon, with only a few of the twenty events remaining, a one-on-one struggle for first place between NCSU and Arkansas became evident. With the backing of most of the eleven other schools, NCSU took 1st place in the skilled events while Arkansas placed third. However, Arkansas took first place in the more heavily weighted technical events (NCSU placed 2nd) by a wide enough margin to insure overall victory with 247.75 points.

Next year's Conclave will be hosted by Virginia Polytechnical Institute and State University and, because of their hell-raising nature, promises to be a big time. VPI & SU, usually a strong competitor, can be expected to avenge this year's poor sixth place finish with a tough team. NCSU, with sights set on 1st place will just have to be tougher in 1980.

Harlan Bost



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America uses more than half a ton of wood each year, for every man, woman and child. (That's the equivalent of a 55-foot-tall southern pine tree with a 12-inch diameter for each one of us.)

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So America must grow more trees—and trees with a lot more usable wood fiber. That's where International Paper is helping.

For 20 years now, International Paper has been

breeding better trees. They're not only taller and straighter than ordinary trees. They also grow *faster*. And they have fewer, smaller branches. That means they contain more *usable* fiber.

Our first man-bred tree, the Supertree, contained 25 percent more wood fiber. Now we're breeding a tree expected to yield 20 percent more fiber than that.

In fact, our tree breeding program is so extensive that by 1978 we expect to replace every southern pine that we harvest with even better, man-bred trees.

And we've extended our breeding program to hardwood trees like gum and sycamore, so that hardwood lands will be more productive, too. We've also developed a Landowner Assistance Program, to help small landowners do a better job of managing their forests.

Right now, there are over 500,000 acres of land involved in this program.

And there's still more. We're finding ways to get more wood

fiber out of the trees we harvest. We're involved in cooperative nursery programs and tree farm programs.

We're working to improve tree harvesting

techniques, while protecting forest soils and insuring our forest watersheds for the future.

More to be done

Will all this be enough to keep the world's fiber supply going strong? It will help. But more must be done.

At International Paper, we believe forest products companies, private landowners and government must work together to develop more enlightened policies to manage America's forests.

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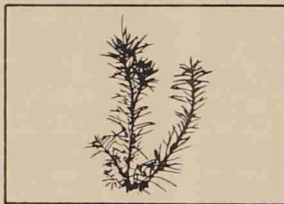


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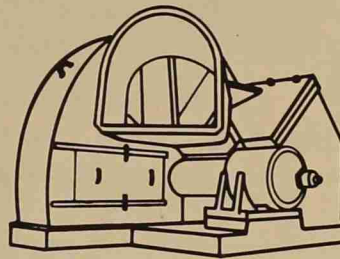
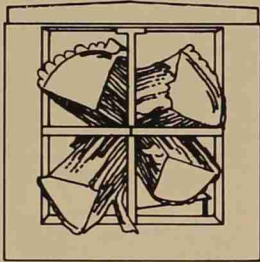
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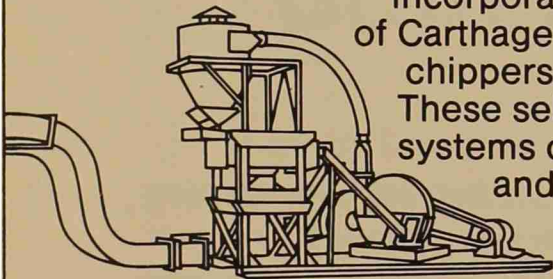
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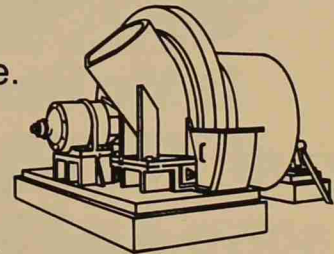


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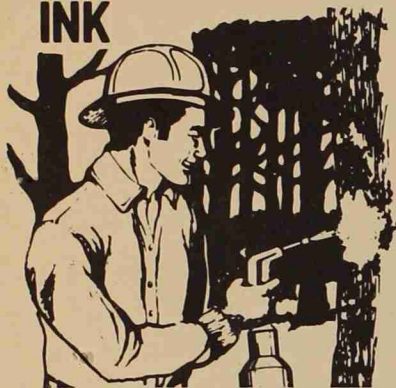
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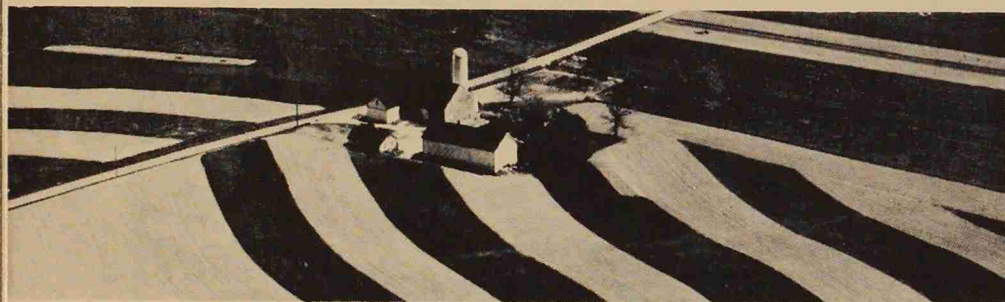
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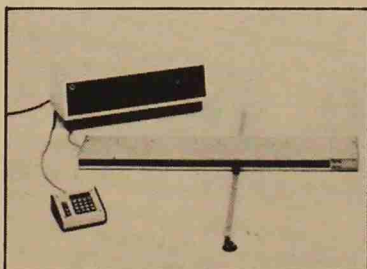
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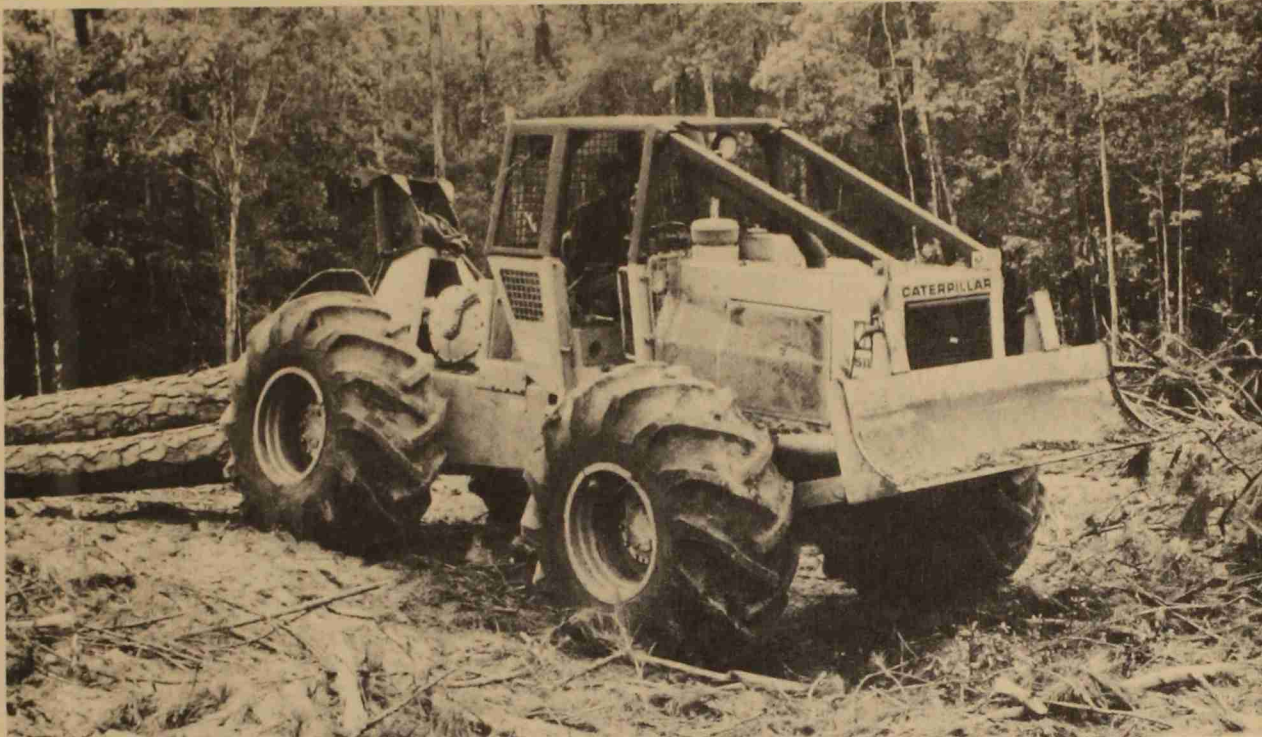
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