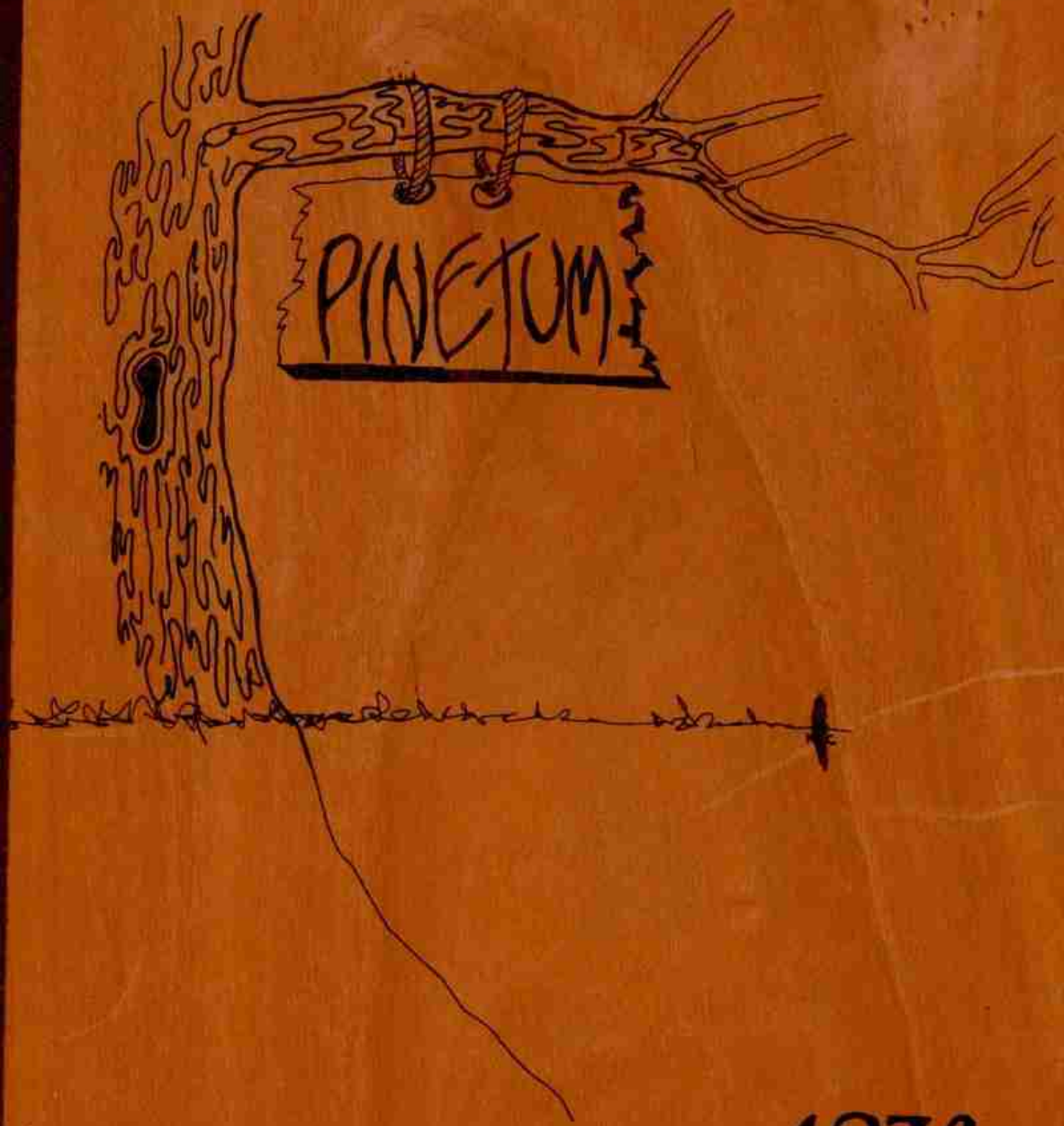
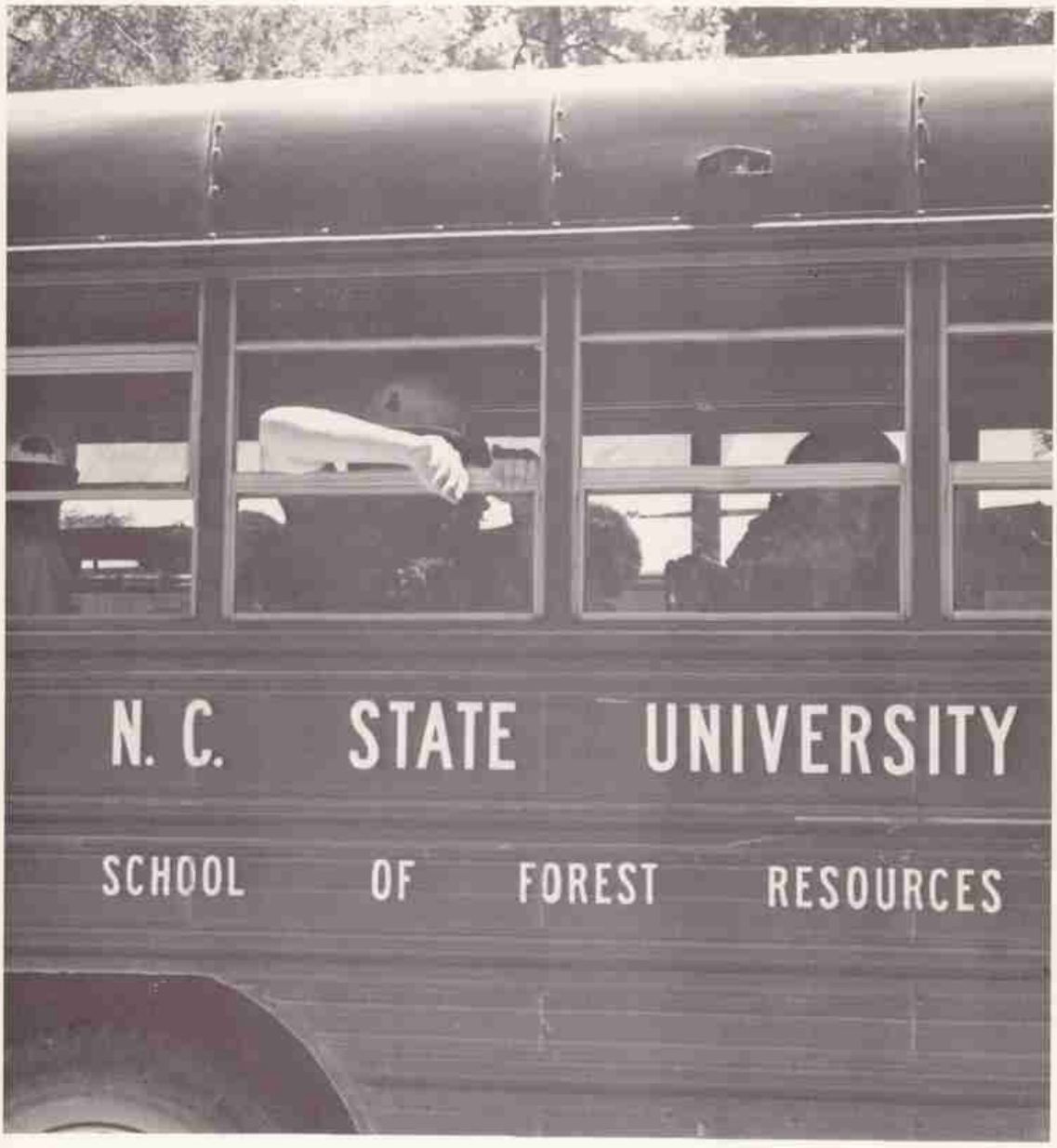
D L Holley



1978

PINETUM



volume XLIV 1978

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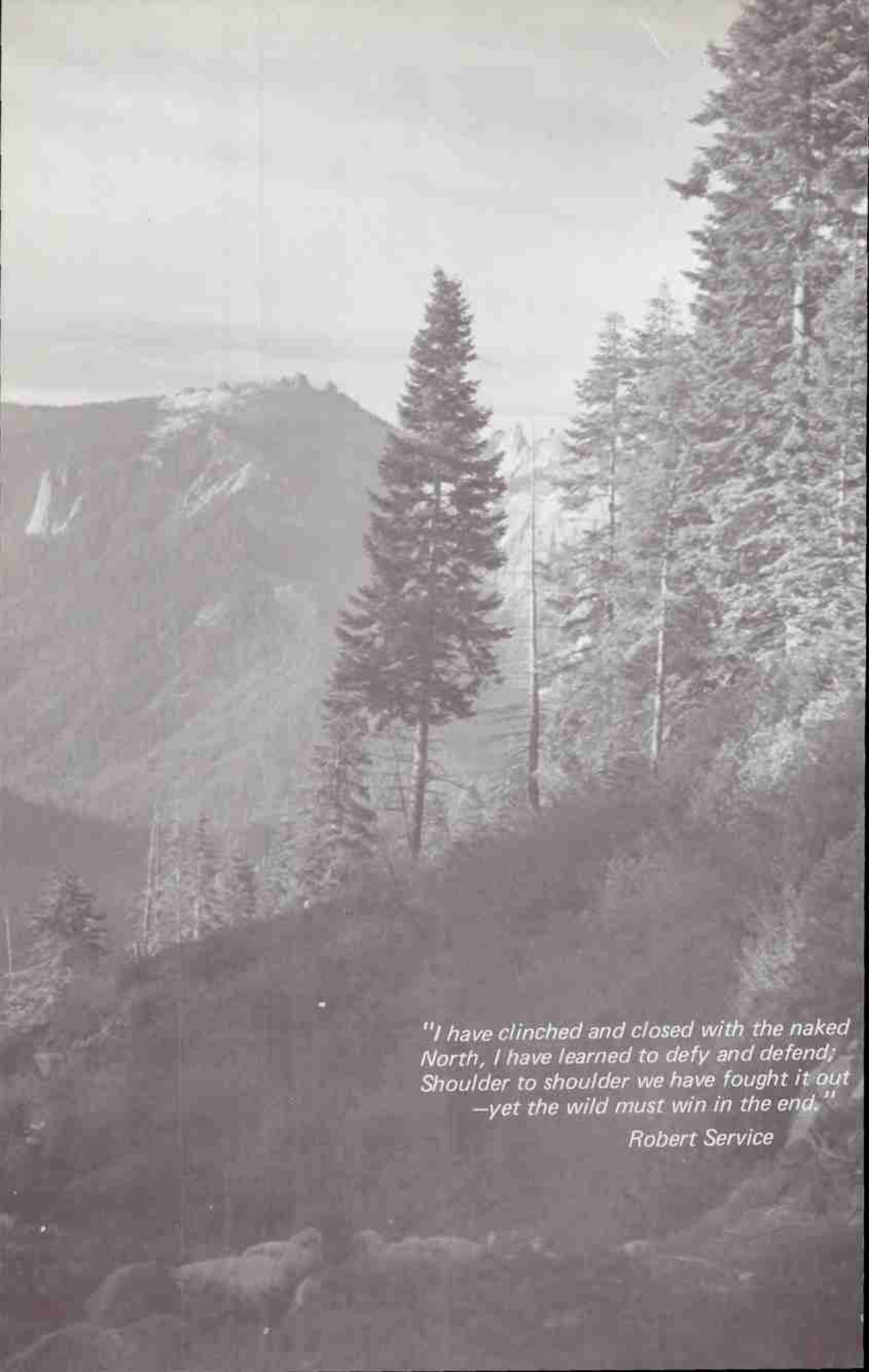

"I have clinched and closed with the naked
North, I have learned to defy and defend;
Shoulder to shoulder we have fought it out
—yet the wild must win in the end."

Robert Service

PINETUM STAFF

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Wood and Paper Science

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Recreation

Jeff Nettnin
Assistant Editor, Forestry

ACKNOWLEDGEMENT

To Darnell, Mrs. Liles, Dr. Saylor, and the Forest Resources Council—THANKS, THANKS, THANKS for helping us, encouraging us, surviving us through the "ordeal!"
To Kate and Don—We did it!
To next year's staff—GOOD LUCK!

—Editor

DEDICATION

by Timothy J. Whelan

This PINETUM staff gave the students and faculty the opportunity of choosing to whom this year's edition would be dedicated. Competition was bound to be keen with so many well-known professors retiring from every department and an increased awareness of the value of the secretaries and staff. Recreation students responded with a mandate. Collectively and thus, overwhelmingly, rec majors wanted to honor the gentleman, on the brink of his retirement, who built State's program from scratch to its present position of commanding nationwide respect.

THOMAS I. HINES

> Professor Hines is one of the real gentlemen of our time. He has shown dedication to the field of recreation undergraduate education, and has gaines the highest esteem of his professional peers.
>
> Dean of the School of Forest Resources, Eric Ellwood

> His big feature is his large heart. No matter how busy Professor Hines is, he will always take a minute to speak with students.
>
> Grayce Broili, Prof. Hines' secretary

> He is constantly regarded as a leader in the field of recreation. There's nothing but respect for Mr. Hines throughout the country.
>
> A student

"I was the only one in the rec department in 1947. I've seen it go from a one half-time instructor to ten full-time instructors," said Mr. Thomas Hines, the guiding force behind Biltmore's acclaimed recreation department.

Mr. Hines, armed with dual undergraduate degrees from State in Math and Physical Education and a Masters from Carolina in Health and Physical Education, championed the growth of our rec department for 32 years. "N. C. State was among the first 10 schools to offer recreation. Now we're joined by 200," the amiable Hines said.

Thanks in part to Mr. Hines, State's rec program has been singled out for its quality. "In 1977, we became the first institution in recreation accredited in the U. S. I am really proud that we were first," beamed Mr. Hines.

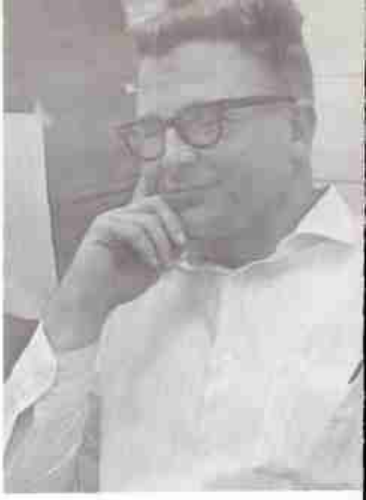
"Recreation has expanded immensely. I've seen it grow from a playground concept to very comprehensive programs in parks," Hines said.

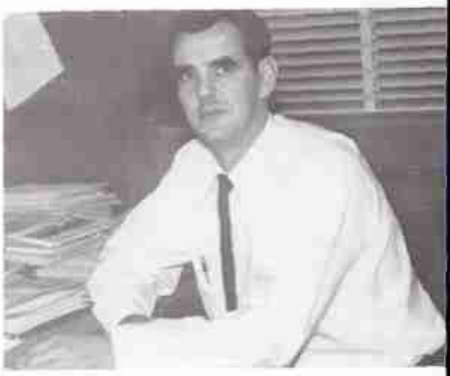
Today over 30,000 students are enrolled in recreation nationwide, "but there's always room for the best," Mr. Hines pointed out. "There are two qualities that put our graduates on a preferred list. First, they have to be very good students to graduate from our university. Next, they have to be people-oriented for others to like them. These qualities have to be developed."

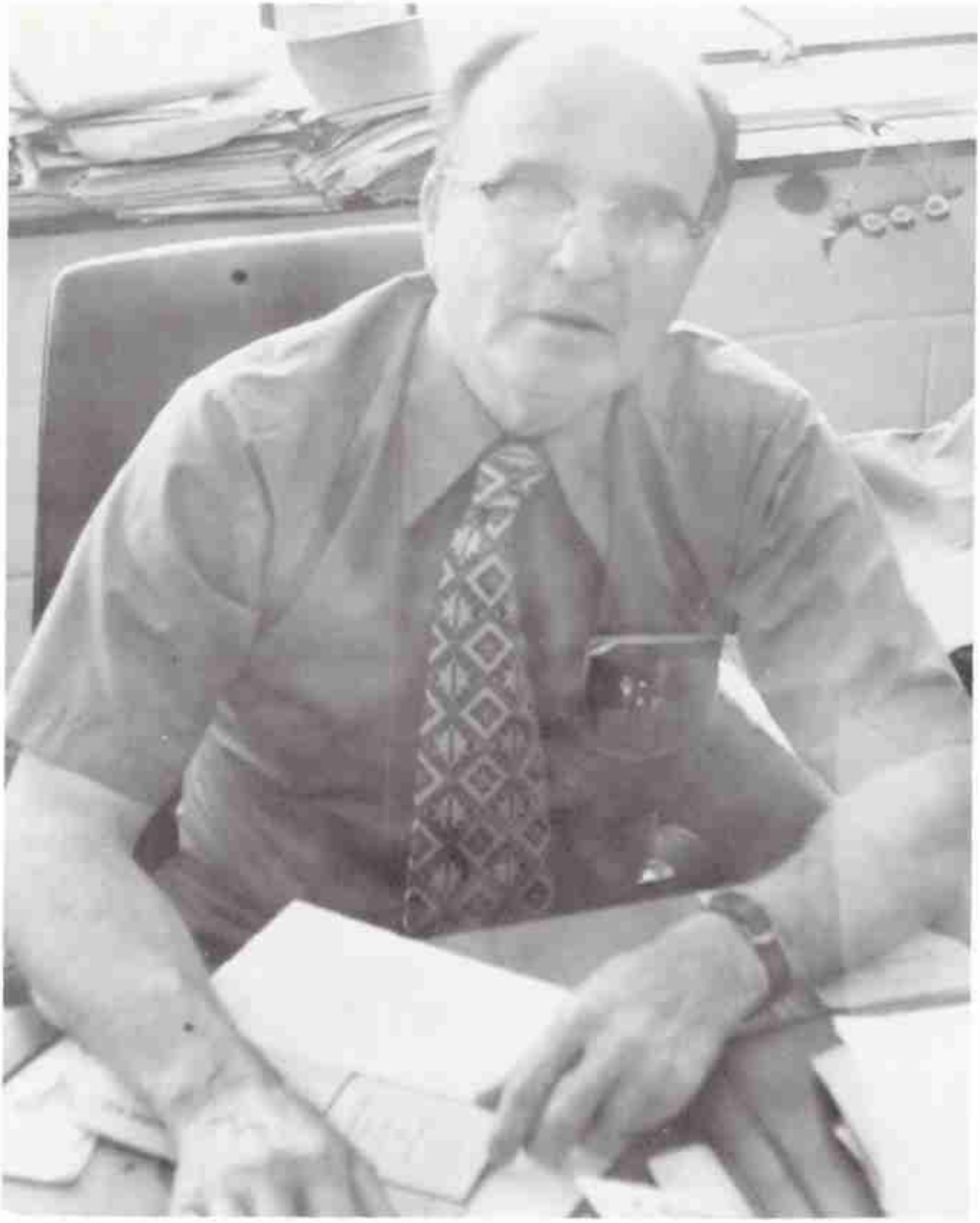
Many outstanding recreationists graduated during Hines' tenure as department head. "One of the greatest things is to go anywhere in the U. S. and meet our graduates," he said. "Recreation has been very exciting and rewarding."

And what of Mr. Hones' retirement plans? "I have no other plans than to complete our house." The Hines's will move to the coastal resort of Seven Lakes. "We're looking forward to retirement together," said Mr. Hines, anticipating his retirement on July 1. Mr. Hines belies his 64 years. He intends to use the facilities that make Seven Lakes "my kind of place." Though he regrets giving up teaching, he will exchange it for golf, boating, horseback riding, tennis, and swimming. "I guess recreation keeps you young."

Guess Who?







Dr. T. Ewald Maki

(From a letter to Dr. Preston concerning open-area information, for a Research and Planning Commission.)

". . . . . How long is it going to take to educate our policy makers and government authorities that the Schenck Memorial Forest is not just another piece of real estate, open in the sun, waiting for the bulldozer, the concrete mixer, and the bricklayer? Somehow it ought to be possible to raise the level of understanding to the point where the Schenck can be recognized as a laboratory vital to the education of our students—just like the General Lab, Gardner, or Williams Hall? This is part of the larger problem that confronts us now, and confronts also the planning commission. We need to develop better government and public understanding of what it really takes to make the country good to look at and good to live in."

TO THE GRADUATING STUDENTS

One regret I have as Dean is the limited opportunity the position gives me to spend substantial time with the students, and even less the possibility of getting to know each and every one of the 1,000 students enrolled in the various majors of the School's programs. Every year, however, I am impressed with the vigor and earnestness of the students as a whole, and by the diversity of their personalities and interests. It makes me feel confident in the future of the USA.

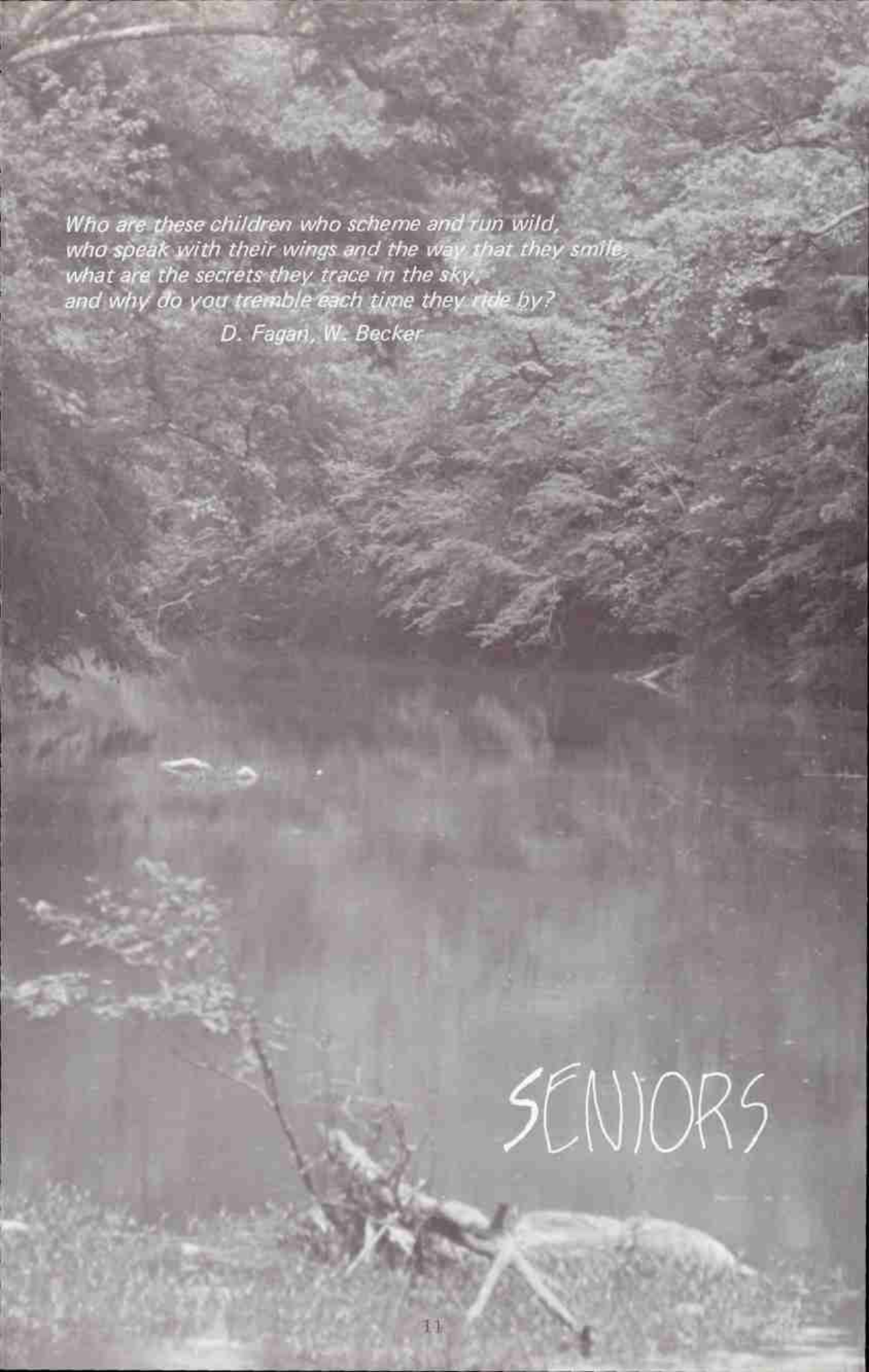
I would like to share with you some observations about the current situation for outgoing university and college graduates. During the last few years, as contrasted with the decade of the sixties, possession of a university degree is not an automatic passport to immediate appointment to a professional level job. Although, in general, career job opportunities are more favorable for those students who have studied in professional or service skill, there are still more job applicants than there are professional positions available on a national basis for many conventional types of employment. The employment record of this School's graduates generally has been very good. But currently it is a buyer's market as far as employers are concerned, so that selectivity by employers is now higher than it has normally been.

Notwithstanding much discussion to the contrary, employers do place considerable weight on high grade point achievement in making that first job appointment. Grades are not only interpreted to be a measure of intellectual ability, but also of self-discipline and willingness to work. Equally as important as grades are the personality traits and attitudes of applicants. While obviously there is no one personality profile which is sought after by all employers and which fits all jobs, we have gleaned from a variety of employer representatives that there are some underlying characteristics which are definite plusses. These are mature self-confidence, effectiveness in communicating, ability to get along with people, a willingness to work hard, and potential for self-development.

Perhaps the most important characteristic of all for the new graduate is that of persistence and follow-through, either as a new employee or for those who have yet to find the career opportunity they are looking for. Persistence will pay off more than any other single characteristic. "To endure is greater than to dare." (Thackeray)

Be of good cheer and strong heart. Our best wishes for a rewarding, enjoyable, and contributory life go with you on Graduation Day.

Eric L. Ellwood
Dean

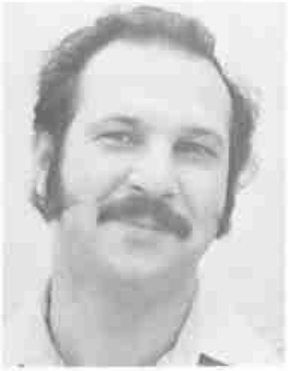


Who are these children who scheme and run wild,
who speak with their wings and the way that they smile,
what are the secrets they trace in the sky,
and why do you tremble each time they ride by?

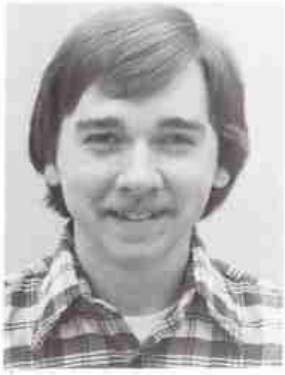
D. Fagan, W. Becker

Forestry

GARY ALLRED
FOR
Xi Sigma Pi, SAF, Forestry Club, For. Res. Council



OSAMA ALSUDANI
FOR

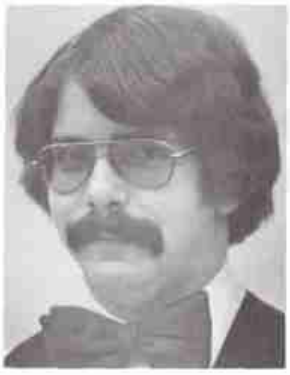


NEIL BAKER
FOR

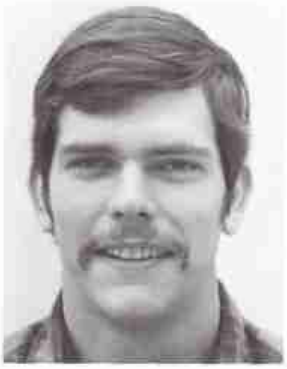
JIM BAUCH
FOR

JIM BOWDEN
FOR

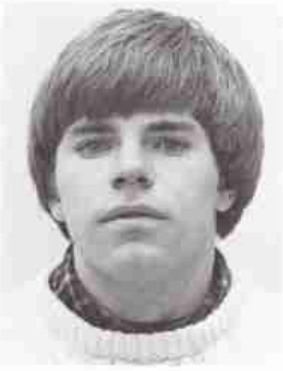
SHEREE BOWYER
FOR
Xi Sigma Pi



BILL BROOKS
FOR
Summer Camp 1977
Lead Guitarist

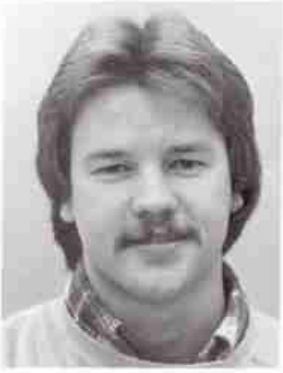


GENE BROWN
FOR
SAF



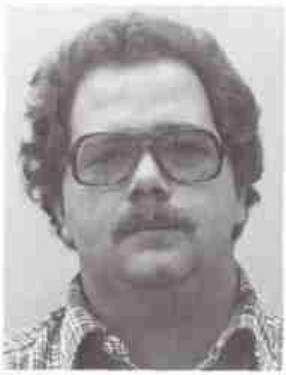
DWAIN BURKE
FOR

RALPH CALLIS
FOR



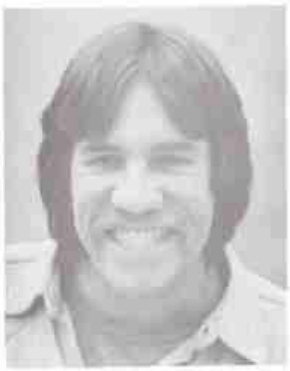
EDDIE CAMPBELL
FOR
SAF

STAN CARPENTER
FOR



STEVE CONGER
FOR
SAF

AMELIA CONRAD
FOR



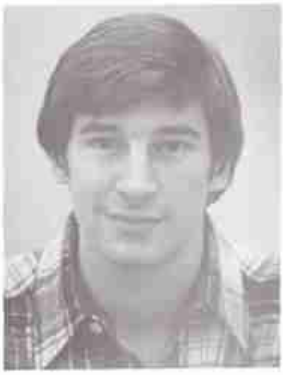
PHIL COOLEY
FOR
SAF

KATE CORKERY
FOR

KEN DANIELS
FOR
Xi Sigma Pi, Co-op

TOM DAVIDSON
FOR
SAF (Sec.-Treas.),
Xi Sigma Pi

ALAN EVERHART
FOR

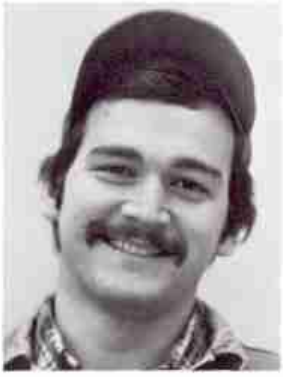


TIM FASOLT
FOR
SAF

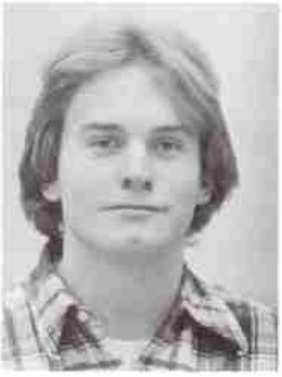
DON GEMMER
FOR

ROBERT B. GREEN
FOR
For. Res. Council (Pres.)
Xi Sigma Pi (Ass. Forester),
SAF, Honors Program

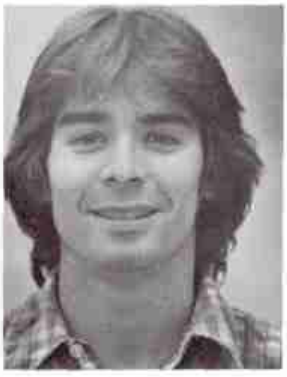
ROB HARRISON
FOR/SSC
Xi Sigma Pi, SAF,
Ag Club



RANDY HUGHES
FOR
Banjo Picking



TOMMY HUTCHINS
FOR
Co-op



MIKE KIMBRO
FOR
Xi Sigma Pi

LYNN LARSON
FOR
SAF

DWIGHT LAUER
FOR
SAF (Vice Chairman),
Xi Sigma Pi

GARY LOCKWOOD
FOR

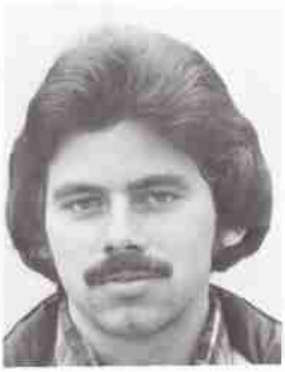
LOUIS LUCAS
FOR

"He plants trees
to benefit
another
generation"
- Cicero, 149 BC

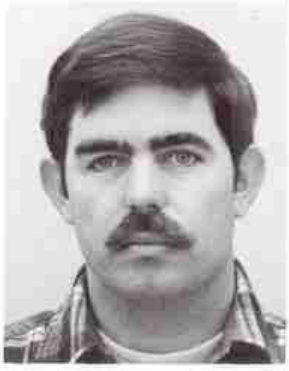
DEAN MCCRAW
FOR/NRR
SAF

ARTHUR MCDONALD
FOR/AG. ECON.
Xi Sigma Pi, Alpha
Phi Alpha

TOM MCSWAIN
FOR/SSC
SAF, Xi Sigma Pi



JIM MEACHAM
FOR

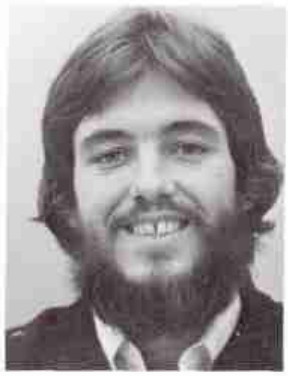


STEPHEN MEDLIN
FOR

ROGER MILLER
FOR
SAF

DOUG MYERS
FOR/SEC
Xi Sigma Pi, SAF,
Forestry Club

CHRIS NULL
FOR
Xi Sigma Pi, Alpha
Zeta



JEFF PARDUE
FOR
Xi Sigma Pi, SAF, For.
Res. Council

KEN POLLOCK
FOR

KEITH PORTER
FOR/ENT
Xi Sigma Pi

SUSAN REICHERT
FOR

THORNTON ROSE, JR.
FOR
Tau Kappa Epsilon

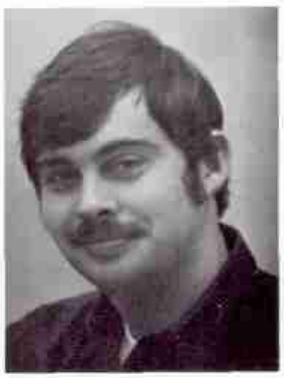
JOHN SHANE
FOR
Xi Sigma Pi

BILL SIMMONS
FOR

AMY SMITH
FOR
Xi Sigma Pi, Student
Senate

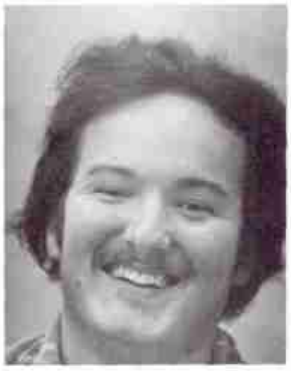
BILL SMITH
FOR
SAF

GREG SMITH
FOR
SAF (Sec.-Treas.),
Xi Sigma Pi

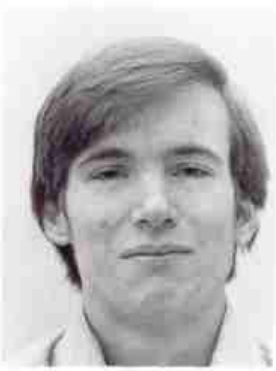


STEVE SNYDER
FOR/WPS
Circle K, Intervarsity
East Area Board, Quad
Council, FPRS

BILL STANTON
FOR



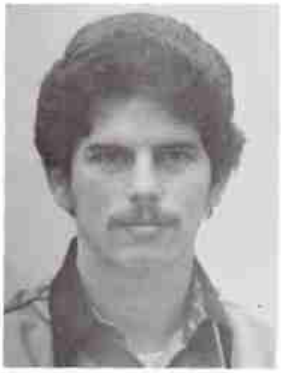
FRED THOMPSON
FOR
SAF



MICHAEL THOMPSON
FOR
SAF

STUART UPSON
FOR

BILL TYNG
FOR
SAF



STEVE WHALEY
FOR
SAF (Chairman)

TIM WHELAN
FOR

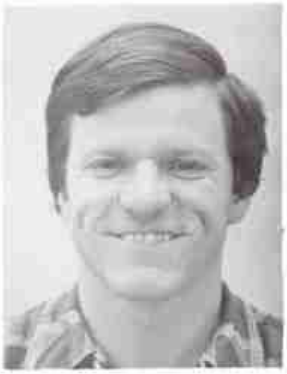
CULLEN WHITLEY
FOR
SAF, Forestry Club

GREG WILLIAMS
FOR/AG. ECON.
Xi Sigma Pi

MIKE WILLIFORD
FOR

CHUCK WINCHESTER
FOR

DUNBAR WRIGHT
FOR
Xi Sigma Pi

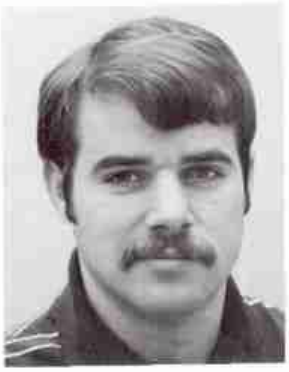


JEFF YOCUM
FOR

FORESTRY SENIORS NOT PICTURED

James Robert Burgin
Orlando Comer
Sherman Fearing II
James Dillon Forbes
Christine Garber
Raymond Mason Lilley
Charles Wayne McCoy
David Meiggs
Wilburn Lonnie Owen
Thomas Harry Percival
John Harrison Talley
Oren Thomas Waggoner, Jr.

Natural Resource Recreation Management



TIM BENTON
NRR
Recreation Club,
Rugby Club

REED CALLIS
NRR/RPA
Rho Phi Alpha

GREG CHEEK
NRR/FOR

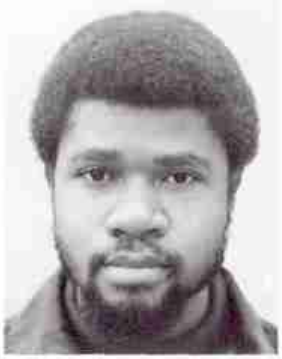
TIM GOODFELLOW
NRR
Xi Sigma Pi, Full Gospel
Student Fellowship

DAVID MALLOY
NRR
Rho Phi Alpha, Xi Sigma
Pi, Outing Club, Varsity
Men's Glee Club

SENIORS NOT
PICTURED
William Wright
Burroughs, Jr.
Thomas Harry
Percival
Terri Lynne Younger

Pulp & Paper Technology

PATRICIA ADAMS
PPT
Xi Sigma Pi, TAPPI, Alpha Lambda Delta, Alpha Delta Pi



WILLIE BYRD
PPT
TAPPI, Alpha Phi Omega

RONNIE CAMPBELL
PPT
TAPPI

ROBERT CATE
PPT

DOUG DANIELS
PPT
Xi Sigma Pi, TAPPI, House Council

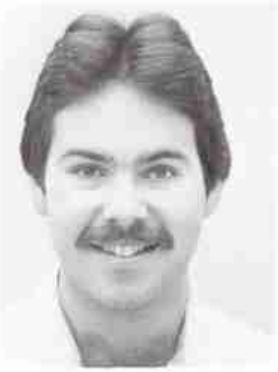
BRADFORD GARNETT
PPT
TAPPI (Pres.), Xi Sigma Pi

JIMMY GREGG
PPT
TAPPI, Honors Program

BOB GRYGOTIS
PPT

TED JAMES
PPT
TAPPI, Circle K Club
(Treas.)

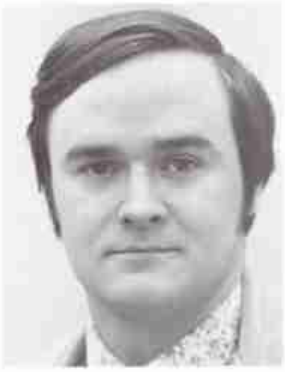
JEAN MCAFEE
PPT



DAVID OSBORNE
PPT
TAPPI, Xi Sigma Pi

JOHN RICHARDSON
PPT
TAPPI, For. Res. Council,
Forestry Club

BOB SLOCKETT
PPT
TAPPI



W. HARRISON WATSON
PPT
TAPPI, Xi Sigma Pi

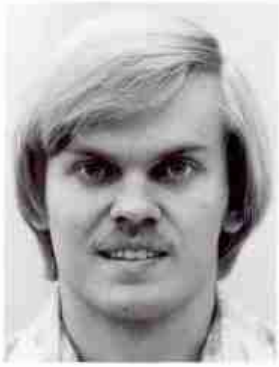
MICHELE WELCH
PPT
TAPPI, Xi Sigma Pi

SENIORS NOT PICTURED

Joel Moye Anderson, III
Alan Fisher Armstrong
Blas Phillip Arroyo
John Thomas Cenicola, Jr.
Terence Dwayne Cutler
Asa Dalton Hardison
Edward Benton Hickman
Stephen Pierce Hoke
Michael John Kerkhof
Jeffery Charles Merck
Walter Bradshaw Schultz, Jr.
Thomas Richard Putnam
Suraphol Udomkesmalee
Robert Andrew Vinson
Bobby Gerald Williams

Recreation & Parks Administration

JACKIE BASS
RPA



DALE COATS
RPA
Rho Phi Alpha, Xi
Sigma Pi

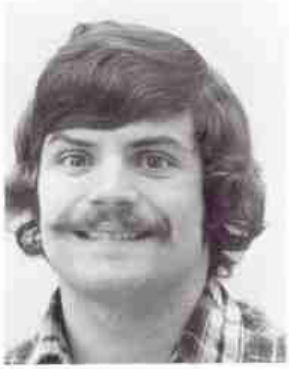
CLYDE DENNY
RPA
Rho Phi Alpha

LULU EURE
RPA

CHIP KIRKLAND
RPA
Rho Phi Alpha

JOSEPH PHIPPS
RPA

TOMMY ROSSER
RPA



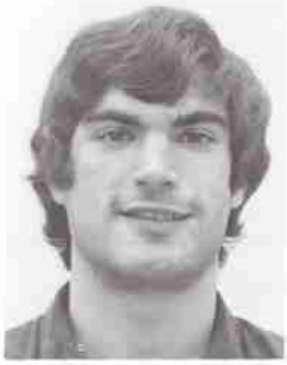
LARRY TRIVETTE
RPA
Rho Phi Alpha

DIANE WHITEIS
RPA
Rho Phi Alpha, Xi
Sigma Pi

SENIORS NOT PICTURED

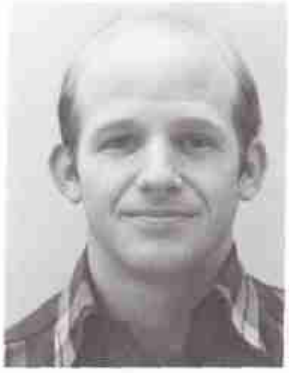
Richard Michael Ainsworth
Alma Karen Atwood
Edward Keith Bolick
Angela Sale Brooks
Gail Lynne Clendaniel
Donald Hester Cole
Rocky Blair Cooper
David Kenneth Darden
Candace Diane Elkins
George Lance Fulghum
Kenneth Dale Goodyear
James William Hamilton
Cynthia Ann Helton
Dennis Michael Joines
Thomas E. Lindner
Ramona Margot Moore
Francine Holly Popkin
Robert Grant Stanley
Thomas Neblett Stephenson, Jr.
Thomas Robert Sternloff
Susan Avery Sutton
Carlene Hope Warren

Recreation Resources Administration



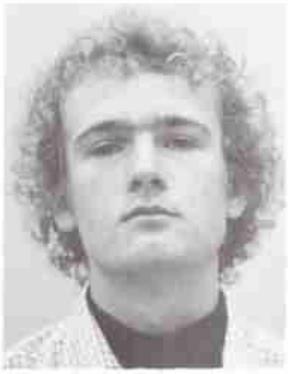
SCOT BOWEN
RRA/CON
Rho Phi Alpha, Xi
Sigma Pi

KATHY BOWMAN
RRA
Rho Phi Alpha, Xi
Sigma Pi



JIMMY GODWIN
RRA
Rho Phi Alpha (Sgt. at Arms), Xi Sigma Pi

JERRY HAGLER
RRA
Rho Phi Alpha (Pres.), Xi Sigma Pi, For. Res. Council



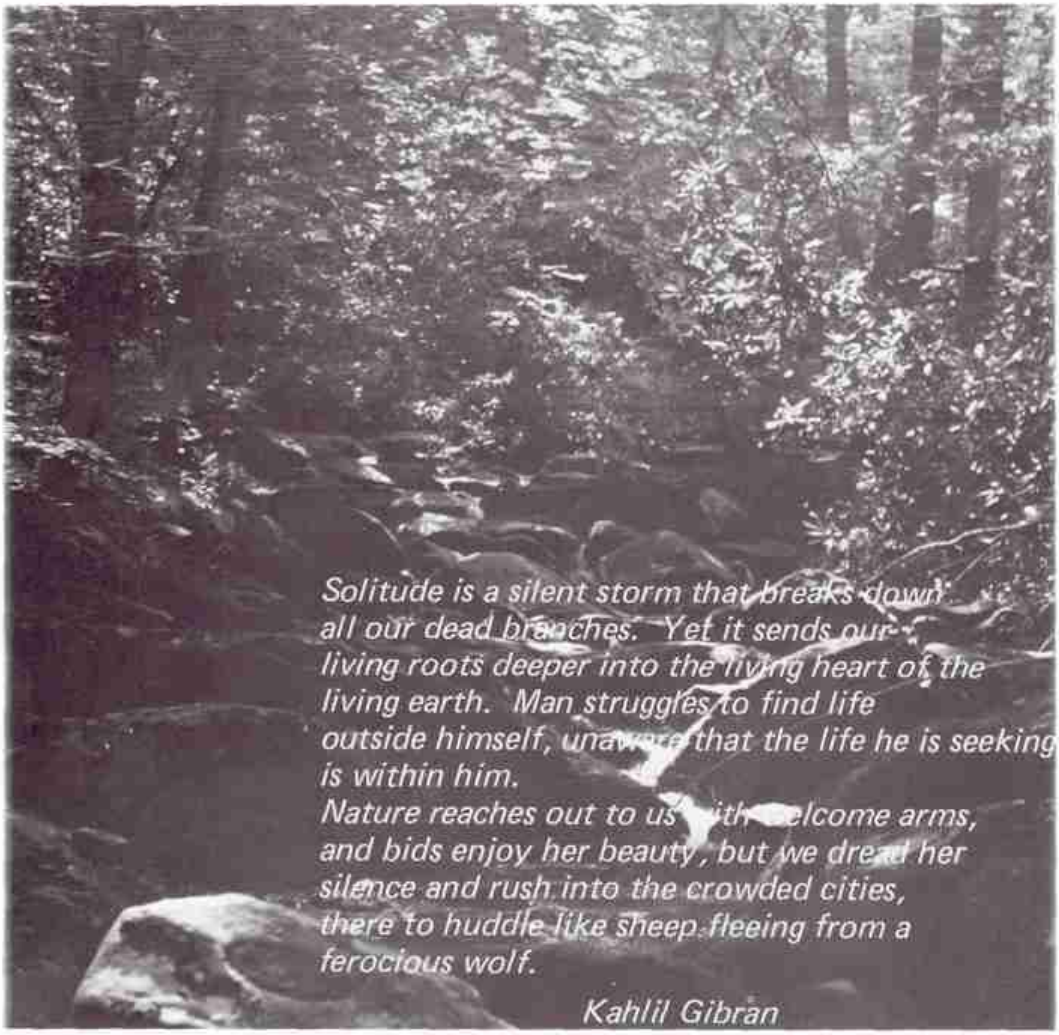
BRUCE MENEGHIN
RRA
Rho Phi Alpha

KRISTE STEINHAUER
RRA
Rho Phi Alpha

SHERIE VOLAND
RRA

SENIORS NOT PICTURED

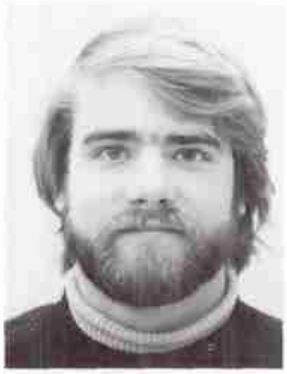
George Timothy Greene
Calvin Warren Hester
Nelson Lynn Lee
Zeb Vance Shue
Kathy Bonita Sizemore
John Gus Tsantes



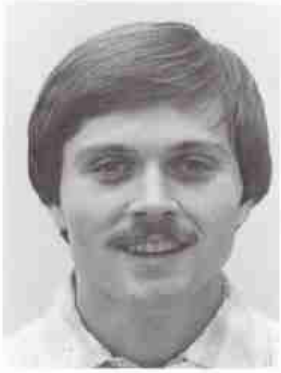
Wood Science Technology

JEFF ARNOLD
WST
FPRS

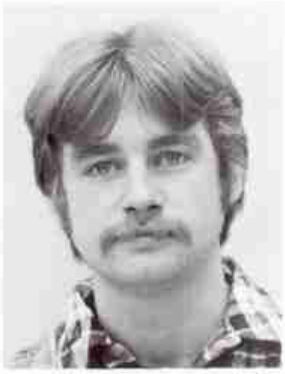
CHARLES ASHTON
WST
FPRS (Correspondent Sec.)



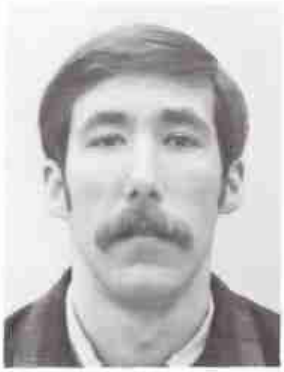
JOHN BRISSETTE
WST
FPRS



C. F. HOPKINS, JR.
WST
FPRS (Sec.-Treas.)

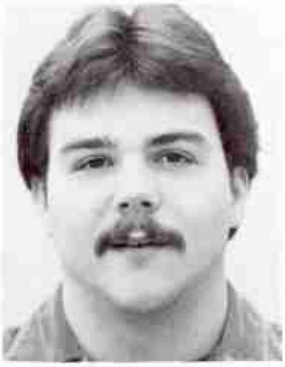


TIM PRESNELL
WST/FOR
Xi Sigma Pi, FPRS

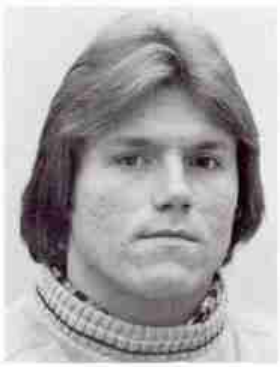


ROBERT SEIDLER
WST

STEWART SEXTON
WST
FPRS (Pres.), Xi Sigma Pi, For. Res. Council



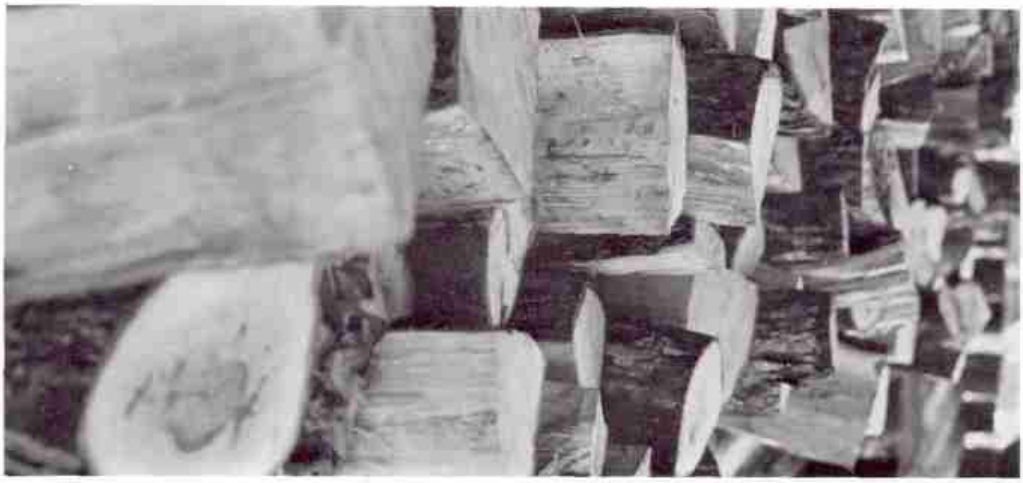
KEITH SMITH
WST
FPRS



WENDELL SUGG
WST
FPRS

SENIORS NOT PICTURED

William Everett Brothers
Robert Keith Davis, Jr.
Robert Paul Fenstermacher
Wayne Ammons Howell
Richard Eugene Mellish
Thaddius Riley Roberts, Jr.
Mike Tindle
Clarence Wayne Willis



WOOD

The heft and feel of the well worn handle,
The sight of shavings that curl from the blade;

Logs in the woodpile awaiting the axe and
the saw;

The smell of fresh cut timber and the
pungent fragrance of campfires;

The crackle of kindling and the hiss of
burning logs.

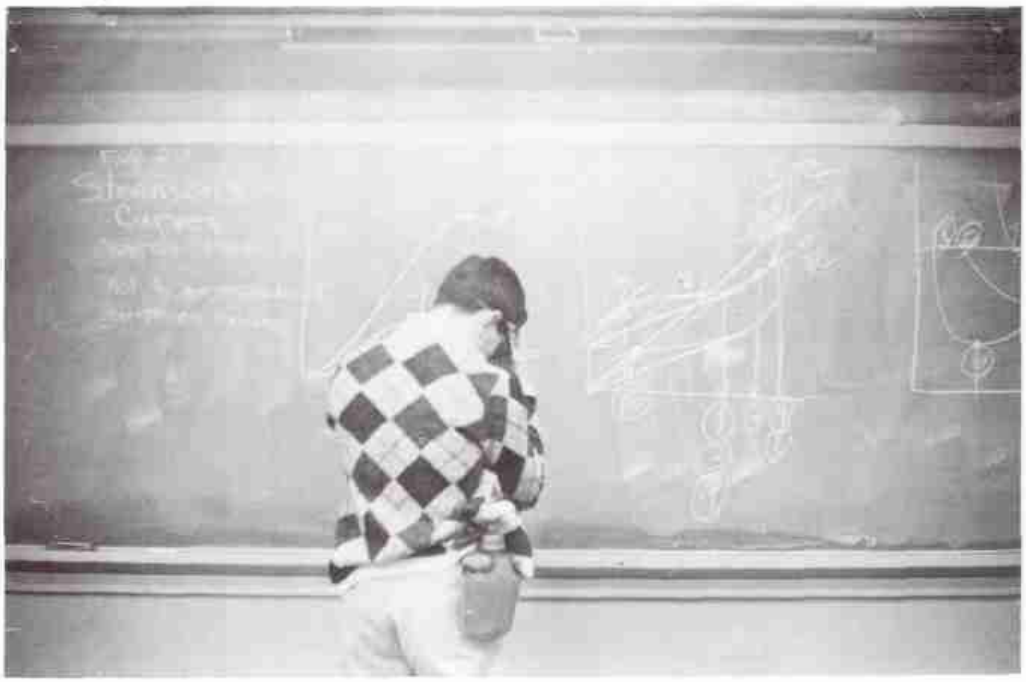
Abundant to all the needs of man,
How poor the world would be without wood.

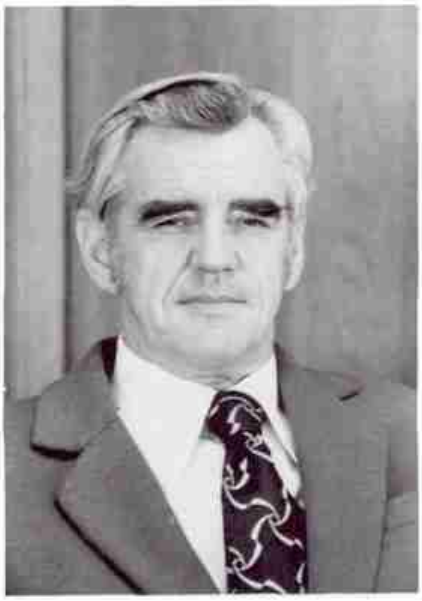
Everard Hinrichs

Conservation

SENIORS NOT PICTURED

Donald Reid Cofer, Jr.
Terry Michael Joyner
Robert Harrill Kluttz
Robin Dale Lipford
James William Madden
John Austin Plyler, Jr.
James Moore Schenck
Mary Elizabeth Seltzer
Gregory Fitzgerald Smith
Barbara Edith Walker





SCHOOL PROGRESS REPORT

Student Enrollment and Faculty and Staff Changes for 1977-78

by Eric L. Ellwood

Enrollment (Fall of 1977)

Curriculum	Undergraduate	M.S.	Ph.D.
Conservation	40	—	—
Forestry	363	41	21
Natural Resource Recreation Management	26	—	—
Recreation and Park Administration	265	31	—
Pulp and Paper Science and Technology	148	—	—
Wood Science and Technology	58	19	21
Unclassified	3	—	—
TOTAL	903	91	42

Degrees awarded in 1976-77 were:

Bachelor	221
Masters	18
Doctorate	5
TOTAL	244

FACULTY AND STAFF

Changes in faculty personnel included the following appointments, retirements, resignations and reassignments:

Dr. Richard J. Thomas was named Department head of Wood and Paper Science to replace Dr. I. S. Goldstein who has returned to the role of teaching and research in the department.

Dr. R. Heath Reeves resigned to take a position with Black Clawson Company.

Dr. Douglas J. Frederick was appointed as Assistant Professor of Forestry (Silviculture). Dr. Frederick was previously at Michigan Technological University, Houghton, Michigan.

Dr. Hugh A. Devine was appointed as Assistant Professor of Recreation Resources Administration. Dr. Devine was previously at the University of Georgia, Athens.

Dr. Russell Ballard was named Assistant Director of the Forest Fertilization Cooperative and has moved to Raleigh from New Zealand where he worked at the Forest Research Institute in Rotorua, New Zealand.

Mr. Delmar W. Bachert was appointed as Extension Assistant Professor of Forest Environmental Education. Mr. Bachert was an instructor at National Outdoor Leadership School, Lander, Wyoming.

Mr. Rickey A. Hamilton was appointed Extension Forest Resources Specialist in the area of Forestation.

Dr. Jay D. Hair was appointed as Associate Professor of Zoology and Forestry and as Coordinator of Wildlife and Fisheries. Dr. Hair was formerly with Clemson University.

Mrs. Sondra L. Kirsch was appointed as Assistant Professor of Recreation Resources Administration. Mrs. Kirsch was Executive Secretary, American Parks and Recreation Society, Arlington, Virginia.

Dr. Werner F. W. Lonsky was named as Visiting Associate Professor in the Department of Wood and Paper Science. Dr. Lonsky will be working on research studies on brightness stability of high yield pulps and ozonization of pulp.

Mr. James Lynn Pittman (Research Assistant), Dr. Raymond J. Preto (Research Associate), Frank P. Scaringelli (Research Associate), Blanche Strouse (Research Assistant) were appointed to work on a National Science Foundation research grant on conversion of wood to chemicals.

John T. Talbert was appointed as Liaison Geneticist in the Tree Improvement Program. John has been working toward a Ph.D. degree in that area.

Mr. Randolph L. Zinc was appointed as Research Assistant to help in the forestry equipment cooperative.

Dr. John W. Duffield retired June 30, 1977 and moved back to Washington state.

Dr. J. O. Lammi, Roy M. Carter, Charles N. Rogers and T. I. Hines will be retiring at the end of this academic year.

The following promotions have been approved:

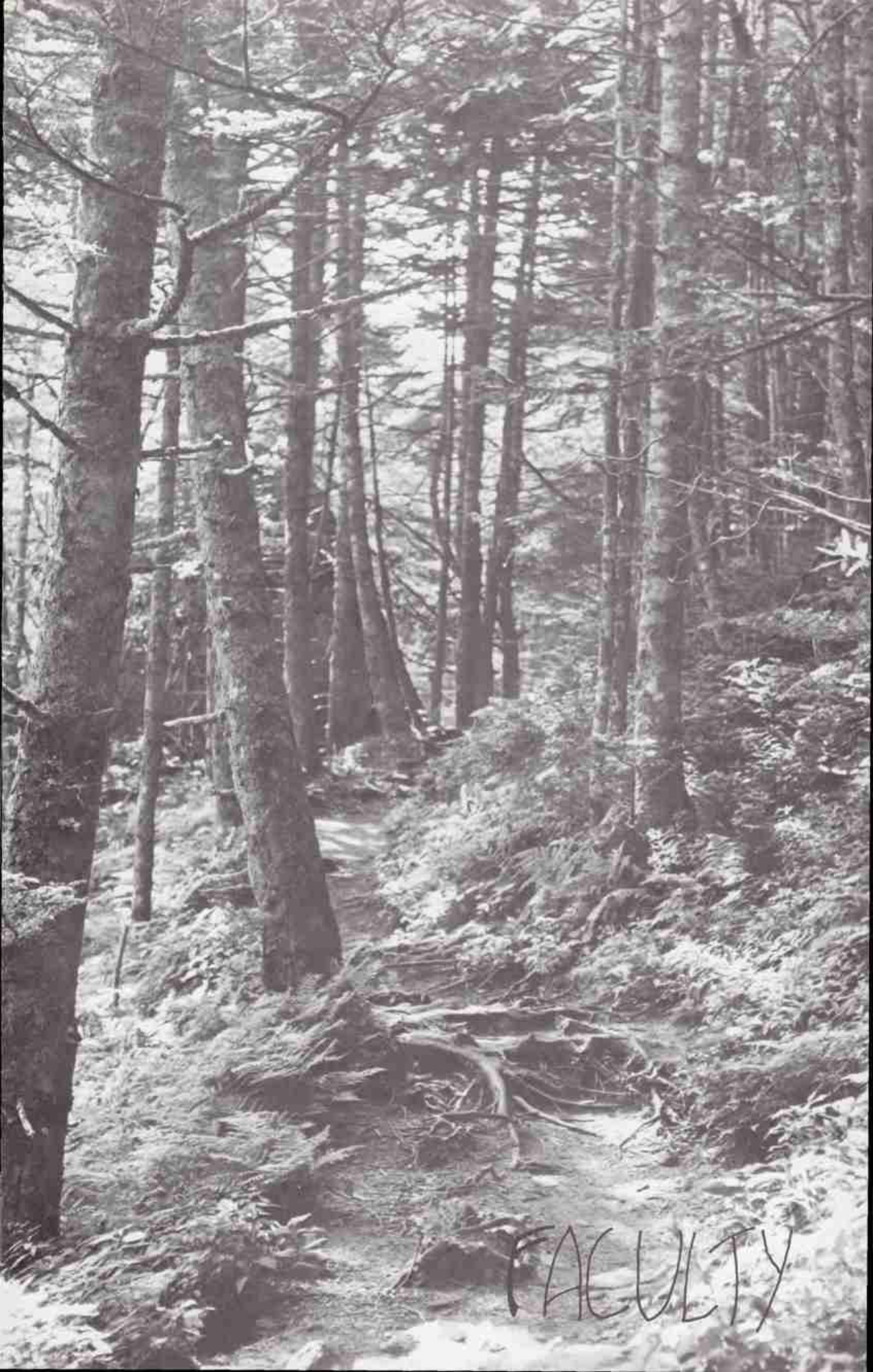
Thomas V. Gemmer promoted to Assistant Professor
Robert J. Weir promoted to Assistant Professor
Larry G. Jervis promoted to Associate Professor
Myron W. Kelly promoted to Associate Professor
Philip K. McKnelly promoted to Associate Professor

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

Mr. T. I. Hines was given an Honorary Life Member Award by the American Association of Zoological Parks and Aquariums; the Distinguished Fellow Award by Society of Park and Recreation Educators,—and a Special Citation Award by the National Recreation and Park Association.

Dr. I. S. Goldstein was named as Fellow of the International Academy of Wood Science.

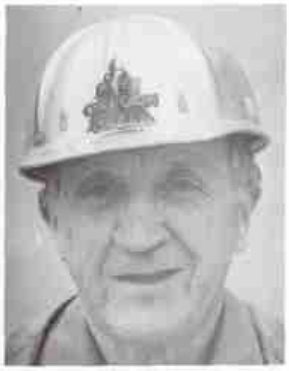
Dr. Arthur Cooper was named Chairman of the National Committee of Scientists for National Forest Management Act. He was also named as President elect of the N. C. Academy of Science.


FACULTY

THE PINETUM HONORS

The 1978 PINETUM Staff would like to acknowledge the departure of the following six men who have served the schoool well.

ROY M. CARTER
Professor of Wood Technology
B.S.F., University of Minnesota;
M.S., Michigan State University
Advisor to FPRS Chapter at NCSU

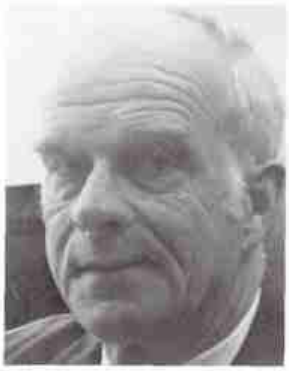


DR. J. O. LAMMI
Professor of Forestry
B.S., M.S., Oreton State University
Ph.D., University of California, Berkeley

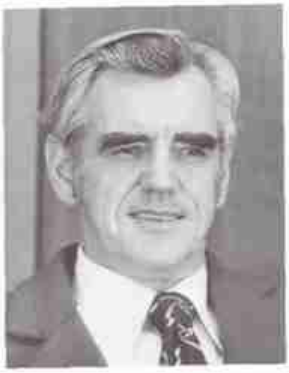
DR. T. EWALD MAKI
Carl Alwin Schenck Emereritus Professor
of Forestry
B.S., M.S., Ph.D., University of Minnesota

DR. WILLIAM E. SMITH
Professor of Recreation Resources Administration
B.S., Western Carolina University
M.S., University of North Carolina
Ed.D., George Peabody College

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



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



ERIC L. ELLWOOD
Dean, School of Forest Resources,
Professor of Wood and Paper Science
B.S., M.S., University of Melbourne
(Australia); Ph.D., Yale University

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

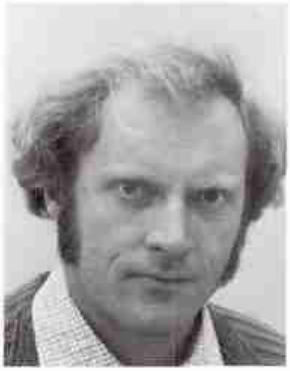
CHARLES B. DAVEY
Head of Department of Forestry, Professor of Forestry, Soil Science, and Plant Pathology
B.S., New York College of Forestry;
M.S., Ph.D., University of Wisconsin

RICHARD J. THOMAS
Head of Department of Wood and Paper Science, Professor of Wood and Paper Science
B.S., Penn State University; M.W.T., North Carolina State University; D.F., Duke University

THOMAS I. HINES
Head of Department and Professor of Recreation Resources Administration
B.S., North Carolina State University;
M.S., University of North Carolina

RICHARD C. ALLISON
Extension Forest Research Specialist
B.S., M.F., Penn State University

DELMAR W. BACHERT
Extension Forest Resources Specialist
B.S., Millersville State College;
M.S., Northern Illinois University



RUSSELL BALLARD
Associate Director, N. C. S. Forest Fertilization Cooperative
B.S., M.S., Massey University (New Zealand);
Ph.D., University of Florida

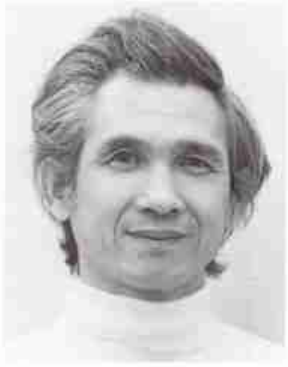
A. C. BAREFOOT
Professor of Wood and Paper Science and Director of University Studies
B.S., M.W.T., N. C. State University;
D.F., Duke University

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

RICHARD R. BRAHAM
Teaching Technician
B.S., M.S., University of Michigan

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

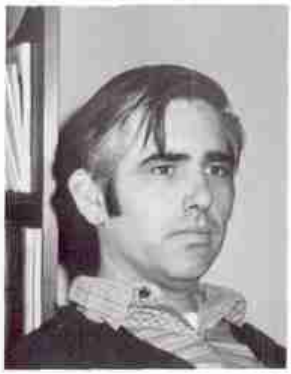
HOU-MIN CHANG
Professor of Wood and Paper Science
B.S., National Taiwan University;
M.S., Ph.D., University of Washington



CHEN-LOUNG CHEN
Research Associate, Wood and Paper Science
B.S., National Taiwan University;
M.S., Ph.D., University of Heidelberg

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

ELLIS B. COWLING
Professor of Plant Pathology, Forestry, and
Wood and Paper Science
B.S., M.S., State University of New York;
Ph.D., University of Wisconsin;
D.Fil., University of Uppsala (Sweden)



EARL L. DEAL
Extension Forest Resources Specialist
B.S., N. C. State University;
M.S., University of Georgia

HUGH A. DEVINE
Assistant Professor of Recreation Resources Administration
B.S., M.S., Ph.D., Penn State University

MAURICE H. FARRIER
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DOUGLAS J. FREDERICK
Professor of Silviculture
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WILLIAM E. GARDNER
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THOMAS V. GEMMER
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ROBERT C. GILMORE
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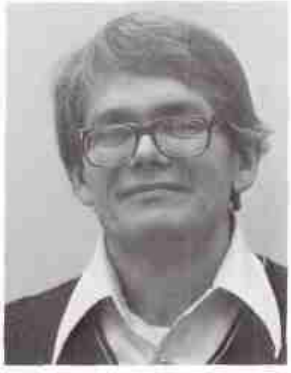
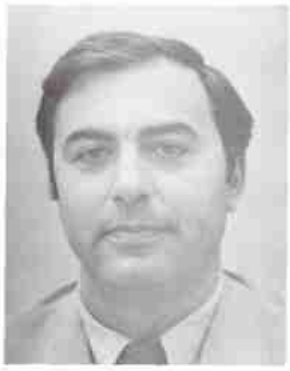
M.W.T., N. C. State University

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



DAVID L. ERICKSON
Assistant Professor of Recreation Resources Administration
B.S., University of Minnesota
M.S., University of Idaho
Ph.D., Ohio State University



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

JOSEF S. GRATZL
Ellis-Signe Olsson Professor of Pulp and
Paper Science and Technology
Ph.D., University of Vienna (Austria)

WILLIAM L. HAFLEY
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FRED P. HAIN
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Ph.D., Michigan State University

J. D. HAIR
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Wildlife and Fisheries
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Ph.D., University of Alberta (Canada)

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M.F., Duke University

STEPHEN J. HANOVER
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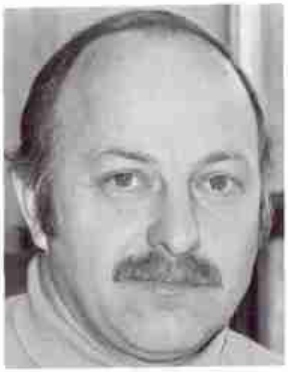
M.F., Yale University



LEON H. HARKINS
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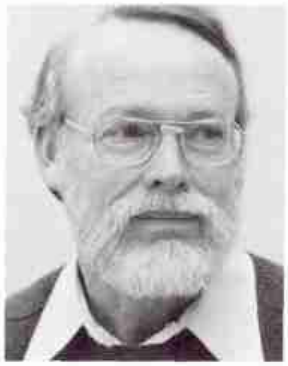
B.S., University of Georgia;
M.S., Colorado State University



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B.S., University of Akron

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M.F., Ph.D., Duke University

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Ph.D., N. C. State University

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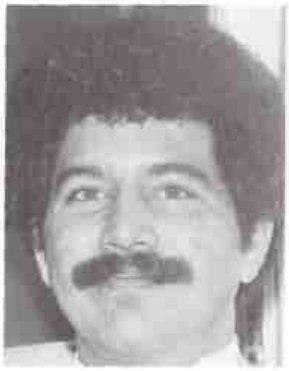
B.C.E., B.A., M.E., University of Melbourne
(Australia)

THOMAS O. PERRY
Proressor of Forestry
B.S., M.A., Ph.D., Harvard University

CARL ALWIN SCHENCK
Founder of Biltmore Forest School
Ph.D., University of Gressen (Germany)

HANS T. SCHREUDER
Supervisory Mathematical Statistician and
Associate Professor of Forestry
B.S., Southern Illinois University; M.S., N. C.
State University; Ph.D., Iowa State University



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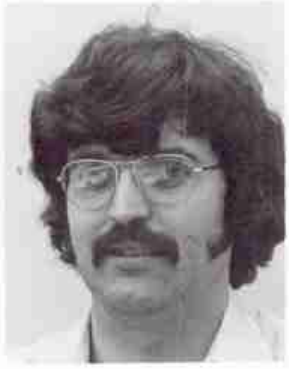

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RICHARD F. WILKINSON
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M.LA., University of Michigan

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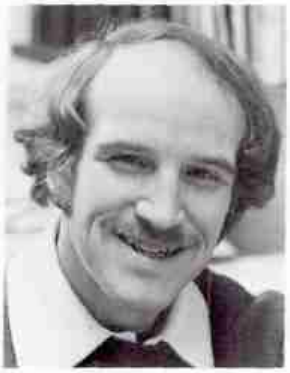
RALPH C. WINKWORTH
Adjunct Professor of Forestry
B.S., Syracuse University



ARTHUR G. WOLLUM, II
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RANDOLPH L. ZINK
Research Assistant, Forestry
B.S., N. C. State University

BRUCE J. ZOBEL
E. F. Conger Distinguished Professor of Forestry and Professor of Forest Genetics
B.S., M.F., Ph.D., University of California, Berkeley

There is no tree in the forest that is straight
—though all are reaching up for light
and are trying.

STATE OF THE SCHOOL FORESTS

by Larry Jervis

It has been a busy and interesting year on the School's research and teaching Forests. Our land acquisition program at Hill Forest is progressing well with 732 acres purchased to date, bringing our total acreage there to 2200 acres. The new acquisitions are designed to replace those Hope Valley Forest lands purchased by the Corps of Engineers, and have provided plenty of surveying and inventory problems for the FOR 406 students this Spring.

A major construction project is now underway at the Slocum Camp, including a new classroom building, instrument-equipment building, toilet and shower facility, three new student cabins, plus a permanent caretaker's residence. Needless to say this represents a significant improvement, and promises to serve our forestry summer camp needs well in the years to come. An annual summer program for wildlife majors is also scheduled to be held at the camp beginning in 1979.

In other developments, we're still salvaging over 300 cords of pine pulpwood on the Hill Forest broken by a severe glazed storm in February, and have lost an additional small acreage of the Schenck Forest to a road building project. The trail developed last year continues to receive heavy use during the warm months.

Somewhat of a milestone was passed on Goodwin Forest this year, marking the 50th year since Mr. James Goodwin first began purchasing the then worn out cotton land to practice forestry. The occasion was observed with a tour of the forest by members of the Moore County Forestry Association and other interested landowners.

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WPS
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MARGARET GRIER
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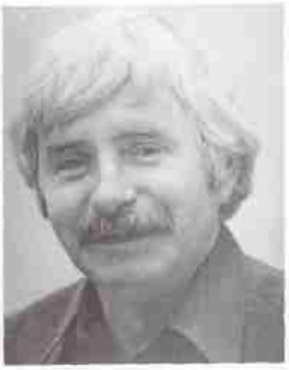


W. R. (Mac) MCLAURIN
WPS
Research Technician

SUE MILLS
FOR
Extension Secretary

EVERETT MORGAN
Research Mechanic

J. LYNN PITTMAN
WPS
Research Technician

NANCY ROBERTS
Administrative Secretary

BLANCHE STROUSE
WPS
Research Technician

BILL SWINT
FOR
Extension Technician

ANH PHYOC TRAN
WPS
Research Technician

DEBBIE VINSON
WPS
Secretary

MARY WALKER
Budget Clerk

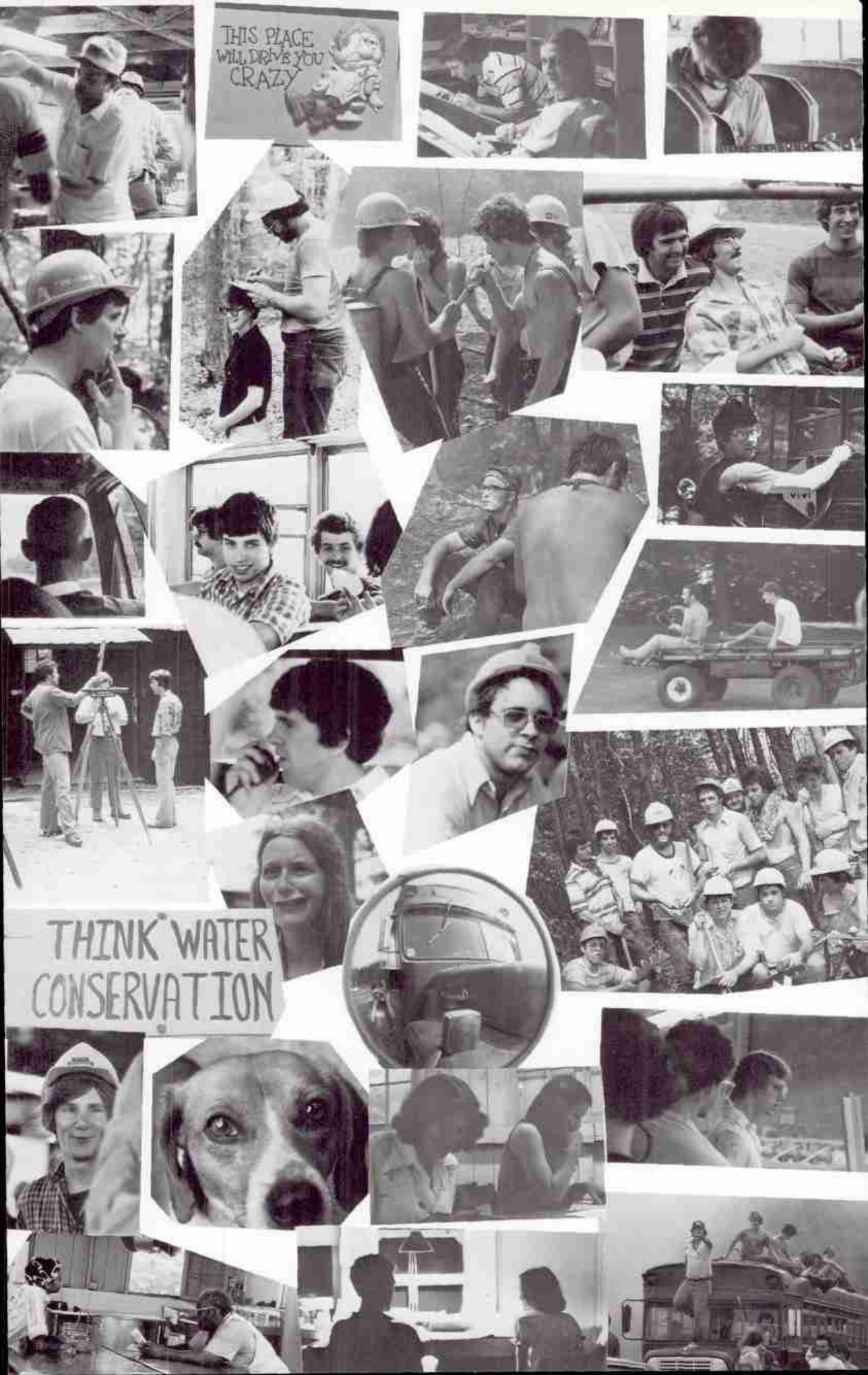
ELIZABETH WILSON
WPS
Research Technician

Forestry is . . . the best of all vocations or activities which any graduate of any school may elect. Just listen!

There are many professions:
There are judges in session,
There are caps of artillaries
And chaps of distilleries;
There is parson and chorister
And pope of the see:
But more than a forester
No man can be!

He plants a tree or, now and then,
A real forest in the glen.
By this he does immortalize
Himself—and gets the booby-prize.

Yours with a smile across the centuries,
Dr. C. Alwin Schenck


THIS PLACE WILL DRIVE YOU CRAZY
THINK WATER CONSERVATION

CHANGES CONSTANT AT SUMMER CAMP

by Maurice Farrier

"Keep your eyes wide open before marriage and half closed thereafter," is a bit of advice still occasionally offered to me. At the risk of indicating having seen too much since my "marriage" to forestry summer camp in 1961, I submit this eyewitness report. On the first day of camp, a social amenity will always be meeting the rest of the faculty. In my first summer, Dr. Lammi was the director. I first encountered Dr. Bryant on his knees in the pump house with a scowl and sweat on his brow. At the time, Drs. Kelman, Maki, Miller, and Perry added their expertise. They were patient with my ignorance of forestry and I shall always be grateful for their instruction by example, word, and action.

A handful of forestry seniors aid the faculty as student assistants. I always agree with the selection of assistants and look forward to working with them. Having just been down the path the previous summer, rocky outcrops where a hand in learning may need to be extended.

Students! In addition to being more of them, the better ones are getting better and the poorer ones are getting poorer. Some exhibit great wisdom, if not knowledge, than the prof. For this reason, we need not worry about the future of forestry. Training "forestresses" is often more enduring than training foresters. The former are not as likely to wrap a motorcycle and themselves around a black gum tree. However, the ladies cause a resource problem for the prof who cannot always provide clear examples and mnemonic devices as before they enrolled. Academically, a poor prospective "forestress" has been rare at summer camp.

Camp constantly changes. Most of the principle buildings remain, but some four-man cabins have been added and more are planned. An outdoor classroom on the slope east of the lodge, is preferred acoustically and atmospherically to air conditioned Room 100, Harrelson Hall on the State campus. Showers are less appreciated since the electric hot water heater replaced the wood burner. Students are still urged to respect the taxed septic system. Nowadays in camp, an auto occupies every appropriately sized space which is not occupied by a tree. Each summer the grass west of the lodge suffers under 100 pairs of student's shuffling boots. A telephone now hangs on the wall in the cook's shack. The nest of carpenter ants in the leaking roof over the stove has been removed, along with the protein they added to scrambled eggs.

Grade posting has changed. Before, we posted grades on the bulletin board before God and everybody. Today, laws ensure a student's privacy and public posting of grades is illegal. Unfortunately, this prohibits peers comparing progress. Also, errors in addition are not as quickly spotted as they were before all eyes.

Learning at forestry summer camp has not changed. It is still hot, sweaty, worrisome work with rest between soggy sheets. Some summer camp faculty have wondered if their efforts could not be better spent. This question was answered by one recognized for his skills of observation and communication. Waldy Maki said, "We never seem to have a class till they go to summer camp." Even though some students do not realize what is happening, many are for the first time experiencing team work. Has this experience resulted in a changed attitude and behavior—a process we call learning?

Only a few foresters will get the opportunity to grow and utilize trees. Most will work with and utilize people who grow trees. Summer camp is the beginning of working with people who grow trees. Have the attitudes of students changed without even themselves recognizing the change? Is that why summer camp unites a class?

ROLLEO

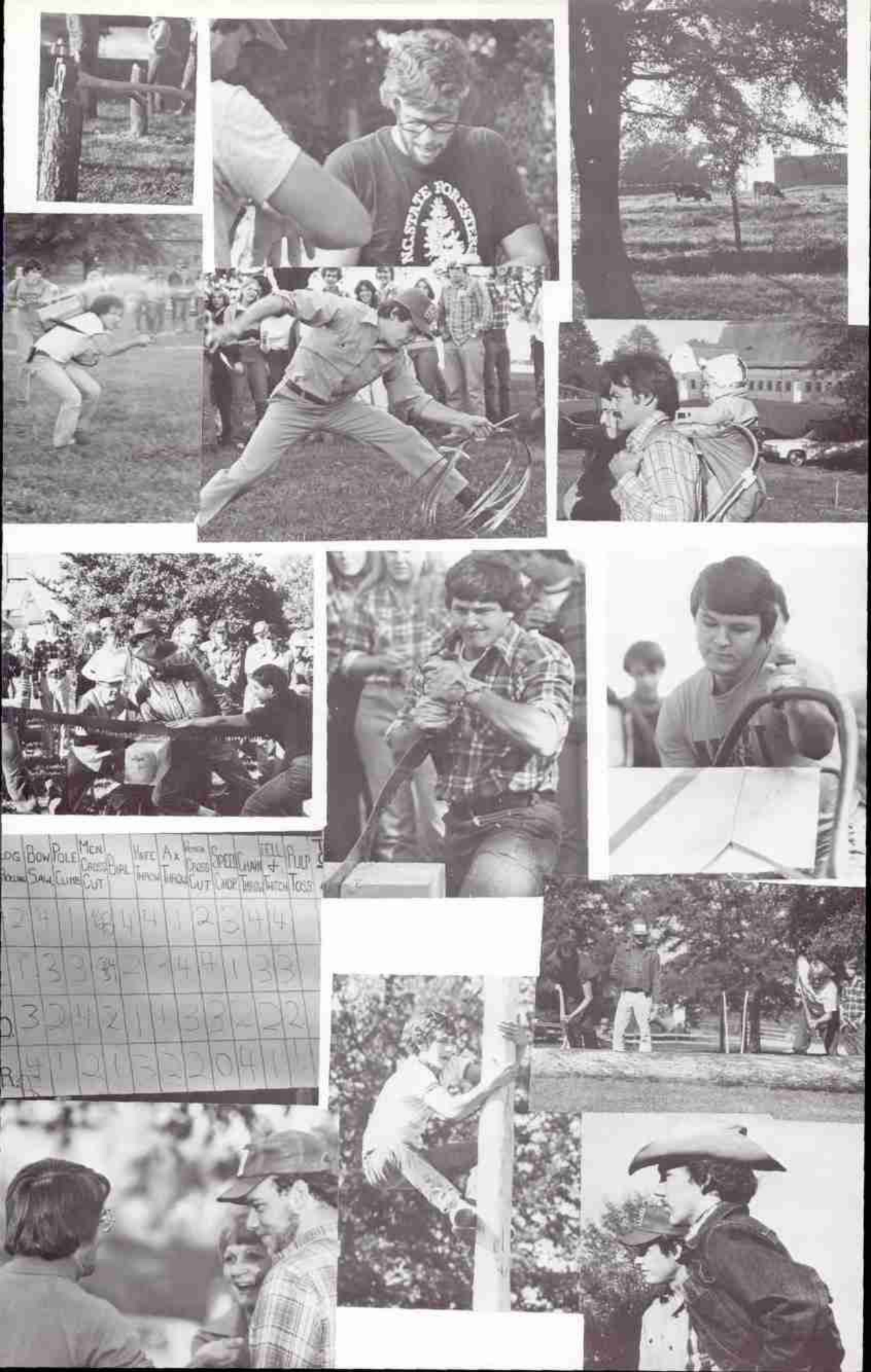
The Forestry Club picked a gorgeous October Sunday to show off its woodsmen skills before 150 curious onlookers at the most successful rolleo in memory. Competition was keen and all the classes claimed the lead at least once. It wasn't until the last of the dozen events that the senior team claimed the victory and precious braggin' rights.

Campus wide publicity and the promise of free beer lured the throng to Research Farm No. 2. Biltmore faculty was well represented and these profs officiated and timed events. The ever popular birl suffered when the water soaked log refused to stay above water despite a pair of inner tubes slipped over the log's ends. Still the show went on with the birlers ignoring the ankle deep water. Kate Corkery, the smallest competitor in the whole freakin' rolleo claimed first place and four points for the seniors.

The seniors held to a one point lead half way through the afternoon-long competition. But then the juniors claimed back-to-back first places with accurate ax throwing and a super effort by Lynn Bramberg and Swan Woerhle in the women's cross cut. "We weren't pulling the last few strokes; the crowd was," Lynn enthused.

The seniors dug in. Team captain Cullen Whitley grabbed three points in speed chopping and Don Gemmer, defending conclave champ, showed his winning style with a 61 second chain throw. The score was deadlocked with two events remaining.

Senior experience claimed first place in the fell and twitch and then they sealed the victory with another first in the pulp toss. It was the third consecutive rolleo victory for the senior team. The seniors totaled 36 points, the juniors had 35, sophs 25, and frosh 21.


BOW SAW
POLE CLIMB
MEN CROSS CUT
BIRL
AX THROW
CROSS CUT
CHAIN THROW
TELL + TWITCH
PULP TOSS

WEYERHAEUSER COMPANY PRESENTS INDUSTRIAL SEMINAR AT NORTH CAROLINA STATE UNIVERSITY

by Bobby Green

During the fall semester the School of Forest Resources was fortunate to have as its guest the Weyerhaeuser Company. A series of biweekly seminars were presented which portrayed Weyerhaeuser's role as a major national and international forest products company. Top executives from the company's Tacoma, Washington headquarters, top research scientists and head management people from the North Carolina Region delivered presentations. A credit seminar was held on Monday afternoon followed by an evening seminar and dinner at the North Carolina State University Faculty Club. The same speakers were present at both the afternoon and evening seminars. In addition, they presented guest lectures on Monday and Tuesday in several of the regularly scheduled classes at North Carolina State University and Duke University.

Faculty, graduate students, and undergrads in Forest Resources attended the afternoon seminars along with some Duke University forestry students and several North Carolina State University wildlife biology students. The evening seminars were attended by various people from the total university and civic community in addition to many of the students and faculty.

A listing of the program schedule, speakers, and topics is given below. A lecture-discussion format was used for the seminars. This proved to be quite effective and resulted in very frank and open discussion which was especially appreciated by the students.

It was the feeling of everyone involved that the experience was greatly beneficial in understanding the corporate position concerning national forest policy and the present business problems of the forest industry. Any future opportunities for seminars such as this one should definitely be undertaken and supported by both faculty and students. Many thanks should go to Dean Saylor and to Gary Fore of Weyerhaeuser Company for all the work they put into the preparation of these programs. We would like to thank them and all the speakers for providing such an experience to enrich our forestry education. At the end of the last session everyone was very impressed.

WEYERHAEUSER SEMINAR PROGRAM

9-12	Credit Seminar I	Corporate Goals in Context of Multiple Use Forestry	R. M. Wolff, Vice President, Land and Timber
	Evening Seminar I	The International Outlook	R. M. Wolff
9-26	Credit Seminar II	The Rationale Behind Weyerhaeuser's Research Effort	Dr. J. L. Kulp, Vice President, Research and Development
	Evening Seminar II	Forest Products and Energy	Dr. J. L. Kulp
10-10	Credit Seminar III	Forest Management Technology: Research Foundation to High Yield Forestry; MYF Model and the Decision Making Process	Dr. R. Bailey, Mgr., Southern Forestry Research G. O. Baker, Mgr., High Yield Forest Planning

	Evening Seminar III	Economic Incentives for Forestry (To Highlight Private Landownership Issue in the South)	Dr. R. Bailey
10-24	Credit Seminar IV	Social and Governmental Impacts on Forest Management Policies	Art Smyth, Vice President, Governmental and Public Affairs K. L. Lamb, Vice President, N. C. Region
	Evening Seminar IV	Private Enterprise and the Public Interest	Art Smyth
11-7	Credit Seminar V	Timberland Management and the Forest Environment in the South	J. S. Larsen, Dir., Envir. Affairs T. Cherry, Wildlife Supv.
	Evening Seminar V	Land Use Planning—Resource Management (Professional vs. Public)	J. S. Larsen
11-18 11-19	Field Trip		K. L. Lamb
11-21	Credit Seminar VI	Motivation of People	C. W. Bingham, Sr. Vice President, Wood Resource and International
	Evening Seminar VI	Key Note Address — Frontiers in Forestry	C. W. Bingham

FOREST RESOURCES COUNCIL

by Russell Strader

Every other week on a Wednesday afternoon, about a dozen students gather in Room 2006 in Biltmore. Those students give up a portion of their dinner break, often a large portion, to come to a business meeting. Never are there any refreshments to greet them, nor entertaining speakers with pictures and words of interest to hold their attention. These students are the Forest Resources Council.

The purpose of this organization, as stated in the constitution shall be:

> ". . . to promote an overall unity among the students of the different departments of the School of Forest Resources, to provide a body to administrate and consider items of common or individual interest to any and all departments, to administer and budget the student funds allocated to the school, to encourage greater cooperation and communication between students and faculty in the school, to provide one unified voice of all students of the school, and to promote a higher degree of cooperation among the various student councils on the campus of NCSU."

This purpose is carried out by the Council through freshman picnics, school seminars, kite-flying contests, sponsoring the PINETUM and the teacher evaluations, selecting Outstanding Teachers and Alumni Distinguished Professors, serving on the school's Grievance Mediation Committee.

Each student in the School of Forest Resources is represented by at least two members of the Council—a departmental representative and a senator from their respective class. In addition, each club elects one club representative to serve on the Council. No one can say he or she does not have input into the affairs of the school.

1977-1978 MEMBERS AND OFFICERS

President—Russell Strader (Xi Sigma Pi)
Vice President—Gary Allred (FOR Dept.)
Secretary—Terry Huskey (Sophomore Senator)
Treasurer—Jeff Pardue (SAF)

Cindy Caldroney (RRA Dept.)
Jerry Hagler (Rho Phi Alpha)
Pat Mulkey (Junior Senator)
Dan Post (Freshman Senator)
John Richardson (TAPPI)
Thad Roberts (WPS Dept.)
Joyce Ruchte (Forestry Club)
Amy Smith (Senior Senator)
Stewart Sexton (FPRS)
Mark Williams (Recreation Club)

THE FOREST PRODUCTS RESEARCH SOCIETY

by Renee Watson

The Forest Products Research Society is an organization geared toward gathering and coordinating the knowledge and technical breakthroughs in the wood science and furniture manufacturing industries. As the first student chapter in the United States, formed in 1954, FPRS at North Carolina State helped start several student chapters throughout the country.

President Stewart Sexton and faculty advisor Dick Allison coordinated the many activities for the 1977-78 academic year, highlighted by the raffle of a four-piece bedroom suite, donated by Wrape Forest Industries. Due to this generous contribution, FPRS sponsored its most successful fund raising activity in recent years.

Bimonthly meetings feature speakers from the forest products industry. On the lighter (and often "higher") side, FPRS members and faculty also enjoy semester picnics and banquets. This and more make for an enjoyable, but informative organization that is the Forest Products Research Society.

OFFICERS

President	Stewart Sexton
Vice President	Jeff Arnold
Secretary	Bob Davis
Treasurer	C. F. Hopkins
Program Chairman	Pete Deal
Corresponding Sec.	Charles Ashton

SOCIETY OF AMERICAN FORESTERS

by Tom Davidson

Failure is too often the fate of student chapters of the Society of American Foresters, and although the NCSU Student Chapter has been no exception in the past, it promises to be an exception in the future. The chapter was reactivated in the fall of 1976 after several years of inactivity. The members established by-laws which included several fundamental objectives, and although they may sound like part of a Scout manual, they are realistic goals. These objectives are to promote the science, technology, and practice of forestry in America, to use the knowledge and skill of the profession to benefit society, and to encourage and benefit the individual member in his or her professional development. In addition, underlying objectives of all student organizations in the School of Forest Resources are not lacking in the SAF chapter; these objectives are simply fun and fellowship.

In the pursuit of these objectives, over the past two years, the chapter has sponsored or participated in several valuable programs. These include the planting and distribution of pine seedlings in conjunction with the Raleigh Women's Club. Also, while some chapter members raised money by cleaning greenhouses, other members spent money on lunches and saw maintenance as they cut firewood for charity and distribution by the Raleigh Volunteer Center. Also, the chapter gave a program in forestry for young members of the Raleigh YMCA. This project included a film on Smokey the Bear and a field day on the school-owned Schenck Forest.

This chapter has tried to promote student involvement in the activities of the Society of American Foresters. The membership and administration sent a representative to the SAF National Convention in New Mexico in 1977; an event which certainly benefitted the chapter and the school. The chapter further promoted student involvement by sponsoring a student meeting at the 1978 Appalachian Section Meeting in Raleigh. At this meeting a spokesman from the national headquarters addressed the issue of the renovation of the SAF accreditation program which includes increased student input.

Additionally, in pursuit of the aforementioned underlying objectives of the chapter, the members affirm their athletic prowess semiannually on the softball field for the self-proclaimed student championship of the forestry department. To many of the members this is the most important activity of the chapter, but to the majority this is only another asset in the chapter's varied programs.

OFFICERS

Chairman	Steve Whaley
Vice Chairman	Dwight Lauer
Sec.-Treas.	Tom Davidson
Forest Resources Council Rep.	Jeff Pardue

XI SIGMA PI

Xi Sigma Pi is the forest resources honor society. It was founded at the University of Washington in 1908 with the three-fold objective of securing and maintaining a high standard of scholarship in forest resources management education, working for the improvement of the forest resources management profession, and promoting a fraternal spirit among those engaged in activities related to forest resources.

Some of the activities that the Mu Chapter here at N. C. State participates in to achieve these objectives are the presentation of an axe to the freshman with the highest academic average in the School of Forest Resources, operating a tutoring service for students in the school, and the presentation of a certificate honoring the senior, not in Xi Sigma Pi, who has contributed to forestry at N. C. State. Also, the society honors all seniors in the School of Forest Resources by sponsoring a picnic at the end of the year. During the year, the society sponsors programs and holds several social events for its members. During the 1977-78 school year, the executive council consisted of John Shane (Forester), Bobby Greene (Assistant Forester), Gary Allred (Ranger), and Patricia Adams (Secretary-Fiscal Agent). The faculty sponsors for the Mu Chapter are Dr. Bryant and "Doc" Steensen.

TAPPI

(Technical Association of the Pulp and Paper Industry)

Since its establishment in 1957, N. C. State's student chapter of TAPPI (Technical Association of the Pulp and Paper Industry) has endeavored to bring the pulp and paper curriculum together in an enjoyable as well as a learning atmosphere.

The organization has as its first objective keeping the students informed of current pulp and paper technology and aims. Technical speakers come to our bi-weekly meetings and trips to several Virginia-Carolina TAPPI Sectional meetings have served us in this endeavor.

A second and very important objective is to bring the students closer together with the faculty as well as to each other. Our semi-annual picnics create a perfect atmosphere for fellowship and often result in a few hangovers. World famous Hitching-burgers, several kegs of beer, and volleyball highlight the event.

The real success of TAPPI, however, has been the dedication of its members, the tireless support of its advisors, Professor R. G. Hitchings and the retiring Professor C. N. Rogers, and the memories and lasting friendships which are nurtured here.

OFFICERS

	77-78	76-77
President	Brad Garnett	John Gurganious
Vice President	Robbie Robertson	Brad Garnett
Program Chairman	Bobby Williams	Steve Gaines
Secretary	Jean McAfee	John May
Treasurer	Jim Bunch	Bob Barlow
Forestry Rep.	John Richardson	Bob Kaminskus
Advisors	Professor C. N. Rogers	
	Professor R. G. Hitchings	

NCSU FORESTRY CLUB

A good way to get any semester rolling is to have a good old fashioned square dance. The Forestry Club gracefully terms this annual spring event their "Logger's Brawl". Last spring's celebration featured a good band, good beer, and a good time.

Immediately following this successful outing came the Conclave. This past year the Forestry Club was blessed with a 29 hour drive to Stephen F. Austin University in Texas. This fearless journey (covering 1200 miles) was made possible by the services of our school's Green Ostomid, whose ride was anything but smooth. Once in Texas, the club was warmly met with three solid days of rain. Thus, by sleeping in leaky tents and taking cold showers, the Forestry Club was in top shape for competition. Those miserable conditions were compounded by losing some close ones and by having our courageous captain, Cullen Whitley, fall short of victory several times by not seeing eye-to-eye with a certain judge. The one bright spot was Don Gemmer's dependable first place in chain throwing, one of the Conclave's toughest events.

Due to Don's outstanding performance in club activities, and his absence at the election meeting, he was promptly elected President for the following fall. Cullen was given the job of backing up Don, and also of heading up the Rolleo.

Just after the start of the fall semester, the Club's "Pig-picking" took place at the Schenck Forest. Everyone had a good time as the weather and the food were agreeable to all. The annual Rolleo was also blessed with good weather and a large crowd. No casualties were reported except the birling log, which met an untimely end as it awkwardly sank to the bottom of the pond. Mike Williford bravely assisted Cullen in setting up for the Rolleo, as one certain climbing pole almost relieved Mike of life and/or limb. Mike led the ranks of this fall's tree cutting crew with a big chaw of Redman.

When the semester drew to a close, the club found growing interest among the freshmen and sophomore classes. As always, the Club would like to express its appreciation to its advisors, T. V. Gemmer, Mac McLaurin, and to Sue Cross for their continuous help, dedication, and encouragement.

RHO PHI ALPHA

It was a year of unprecedented activity for Rho Phi Alpha. The high point of the fall semester was a pig picking in November. Three of the rascals gave their lives for the occasion! Close to 200 people enjoyed music, eats, and a blazing bonfire.

Thad Eure, North Carolina Secretary of State, addressed the fraternity's fall banquet and a new group of pledges was inducted.

With the coming of spring came a ski trip in February and the spring banquet, with six young ladies gaining induction into the ranks. No men this time—times are changing. At the spring banquet we honored retiring professor, Thomas I. Hines, with an evening of memories. The Outstanding Senior award was renamed in his honor. A recreation students' mini-conference in April closed out a busy year for Rho Phi Alpha.

The fraternity also gave birth to the new Recreation Major's Club. This time it looks like it is going to make it.

All in all, it was a year to remember.

OFFICERS

President	Jerry Hagler
Vice President	Chip Kirkland
Treasurer	Kriste Steinhauer
Secretary	Vicky Gardner
Sergeant-at-Arms	Jimmy Godwin

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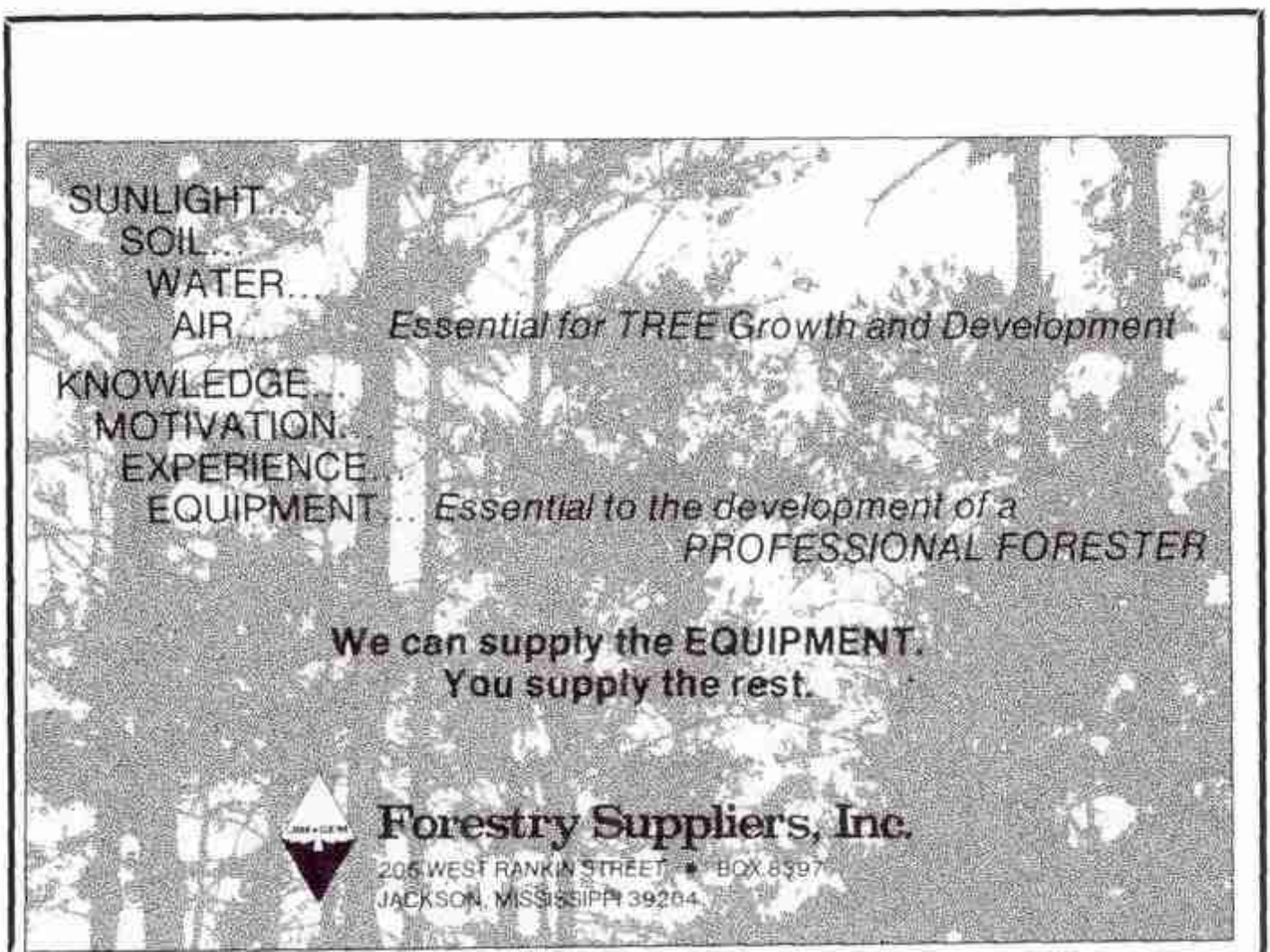
Clark Equipment Company 82
The Ben Meadows Company 83
North Carolina Equipment Company 84
International Paper Company 85
Gregory Poole Equipment Company 86
Weyerhaeuser Company 87
The Chesapeake Corporation of Virginia 88
Gray Lumber Company 88
Federal Paper Board Company, Inc. 89
Marylea Farm 90
Georgia-Pacific Corporation 91
Tarheel Wood Treating Company 92
The Trail Shop 92
Brothers Pizza Palace 92
Bowater Carolina Corporation 93
Union Camp Corporation 94
Brunswick Pulp and Paper Company 95
Hooker Chemicals & Plastics Corporation 96



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You'll find Homelite Chain Saws used in forests and woodlands around the world. That's because Homelite saws provide low maintenance with high performance for logging, pulpwood cutting, land clearing, timber thinning —all the applications where a top quality chain saw is required.

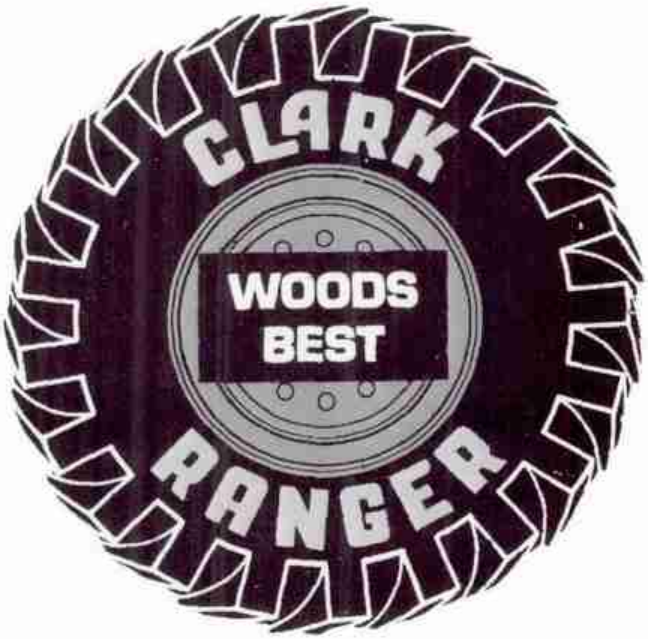
Homelite big-saw features include: all-weather starting and smooth idling, automatic chain oiling for longer chain life, longer cutting time between fuelings, thanks to large fuel and oil tanks, and a variety of guide bar lengths so you can match the cutting capacity to the job.

It's not by chance that loggers choose Homelite saws. They're human-engineered with a balanced low-profile design, which lets you cut longer with less fatigue. Homelite's newer models feature a vibration isolation system that cushions the power head from the handles, resulting in more operator comfort, and dual chamber Softone™ muffler which keeps the noise level low without sacrificing power.

Every Homelite saw is a saw to be reckoned with. It's the logger's choice from pulpwood lots to the largest timber stands.

HOMELITE TEXTRON

Homelite Division of Textron Inc.



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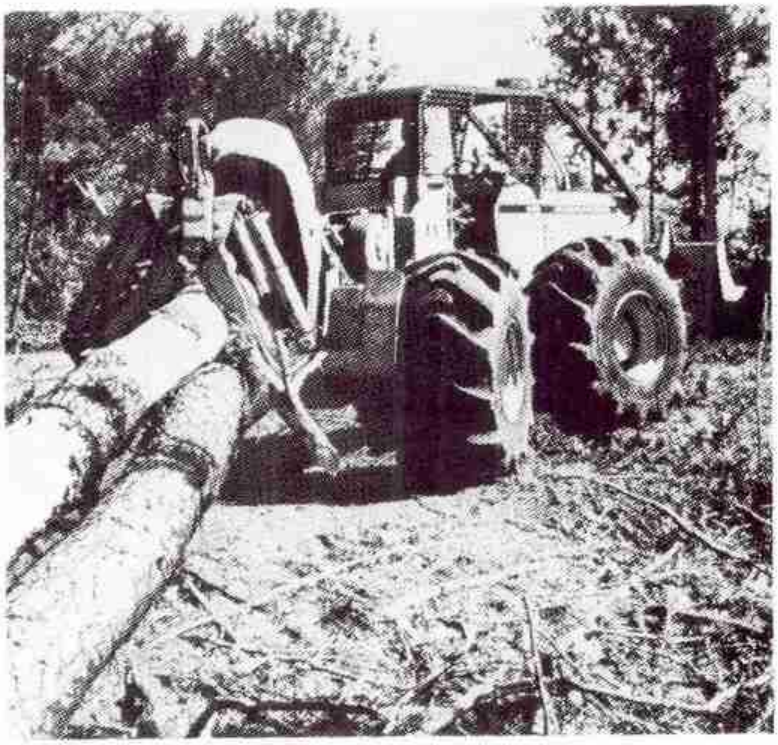
The North Carolina Equipment Company Salutes the N. C. State School of Forest Resources

Our forests represent an important element in North Carolina's beauty and industry.

The North Carolina Equipment Company is proud to serve the forestry industry.



International S-10 PAY® logger

North Carolina Equipment Company

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Your International Harvester distributor for PAY® products.

How International Paper helps mother trees have stronger, healthier offspring

This woman is—well, you might call her a matchmaker.

She's using a syringe in one of our seed orchards to make just the right kind of match: the pollen of one very special pine tree to the flower of another.

It's all part of an effort to grow a better kind of tree—one far taller, straighter and more resistant to disease than its ancestors.

That effort could be critical to America's economy.

Nature under pressure

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.)

And, the huge demand will double by the year 2000 if we are to meet our needs for housing, protective packaging, communications and other critical demands of a modern economy.

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.

The wrong policies can make tree farming difficult and force the sale of forest land for other purposes. The right policies can assure continuation of America's forests—a renewable natural resource.

INTERNATIONAL PAPER COMPANY
Woodlands & Wood Products Operations
P.O. Box 2328
Mobile, Alabama 36601

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Who's who in the woods.

We'd like you to meet four of the best tree people in North Carolina.

In or out of the forest.

John Lilley knows every square inch of the 284,000 acres in his area and what's going on in each one. When to log. What equipment to call in. And how to operate on a wide range of soil types.

Ed Brown wears two hats. He's responsible for building and maintaining all company roads and ditches in the New Bern area. And he oversees site preparation for each year's regeneration efforts.

Gerald Black watches over our nursery, making sure all 24 to 34 million seedlings produced each year are ready when Ed is.

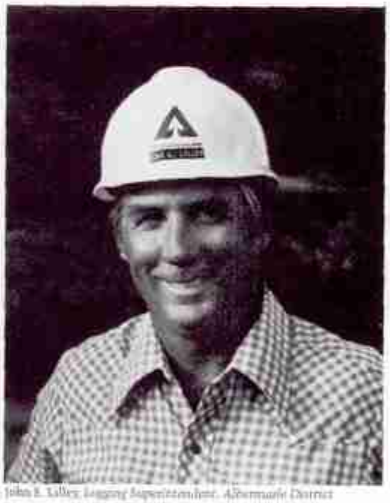
And Ron Dersham's job is to see that every log coming into the New Bern sawmill or our new twin-lathe plywood facility at Jacksonville is used to its best potential. So that all the work that John, Ed and Gerald have done isn't wasted.

Now, we all know who gets the credit for actually growing trees.

But Mother Nature doesn't really care about society's demand for more and more wood products.

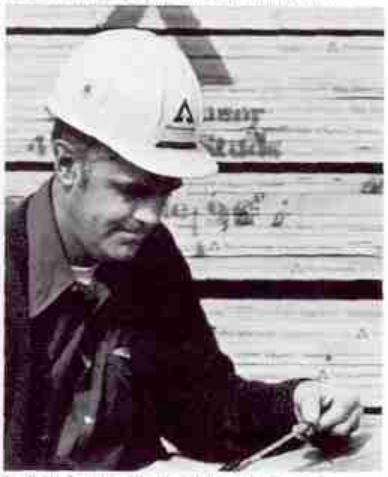
So, we give her all the help we can.

Ed Brown, *Construction Superintendent, Neuse District*



John R. Lilley, *Logging Superintendent, Albemarle District*

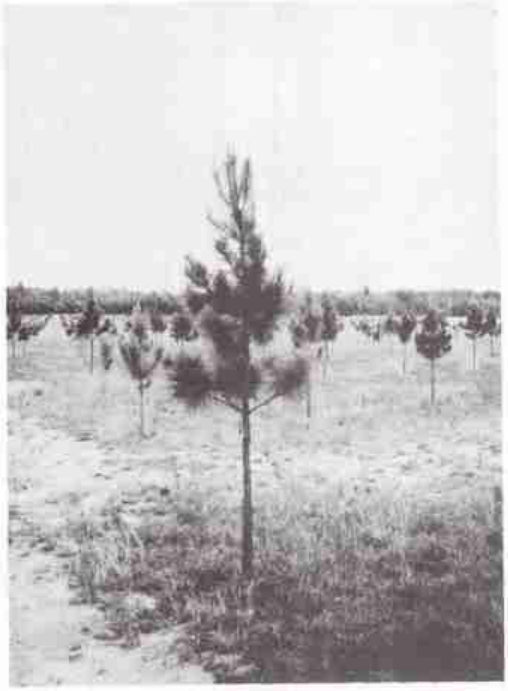
Gerald W. Black, *Superintendent, George Hunt Walker Weyerhaeuser Nursery*



Ron R. Dersham, *Wood Products Manager, New Bern and Jacksonville*

Weyerhaeuser

The Tree Growing Company



We're committed.

Over 120 million seedlings set out in recent years back up the commitment to regenerate our forests.

Encouraging cooperative forestry programs throughout our region has also been an important part of Chesapeake's reforestation program. When equipment scheduling permits we will reforest private land at cost or will give the landowner, at no charge, up to 10,000 seedlings on a matching basis to reforest his land.

At Chesapeake we believe in the forests. They have to be protected and wisely used to supply man with his growing needs.

Forest regeneration. Just another way Chesapeake is working with nature to serve man.

Our professionally trained foresters will be glad to advise you on any questions you may have concerning forest management. Contact: Director of Forest Information and Education, The Chesapeake Corporation, (804) 843-5375, or The State Division of Forestry in Charlottesville.

THE CHESAPEAKE CORPORATION OF VIRGINIA
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Makers of bleached pulp, corrugated containers, paperboard and kraft paper.

GRAY LUMBER COMPANY

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FORESTRY MEANS CARING . . .

. . . Caring not only for trees, but for water and soil and wildlife and people as well. Most times caring involves conservation, wise use, and refurbishing the forest environment. Occasionally caring means preservation. Sometimes that's the only way to insure the continued existence of unique natural areas and the species that depend on them for survival. That's why in 1977 Federal Paper Board Company donated a 13,850 acre parcel of land to The Nature Conservancy. The area, located in Brunswick County, North Carolina is of major botanical importance, providing habitat for many rare and threatened plant species including the unusual Venus's-flytrap, pictured above. At Federal we recognize our responsibility to help pass on an environmentally stable earth to future generations. That's what forestry is all about.

FEDERAL

FEDERAL PAPER BOARD CO., INC.
Woodlands Department
Bolton, N. C. 28423

MARYLEA FARM

The tree which moves some to tears
of joy is in the eyes of others only
a green thing that stands in the way.

William Blake

PENNINGTON ROAD
BEL AIR, MARYLAND

Towering, majestic, magnificent. And rotten to the core.

Great trees can be so imposing that they inspire awe. Yet inside they can be rotten—victims of insects, disease, or both. Such trees discourage life around them. And little of their fiber can be salvaged.

In Georgia-Pacific's managed forests, we harvest trees at their productive peak, like the vital crops they are.

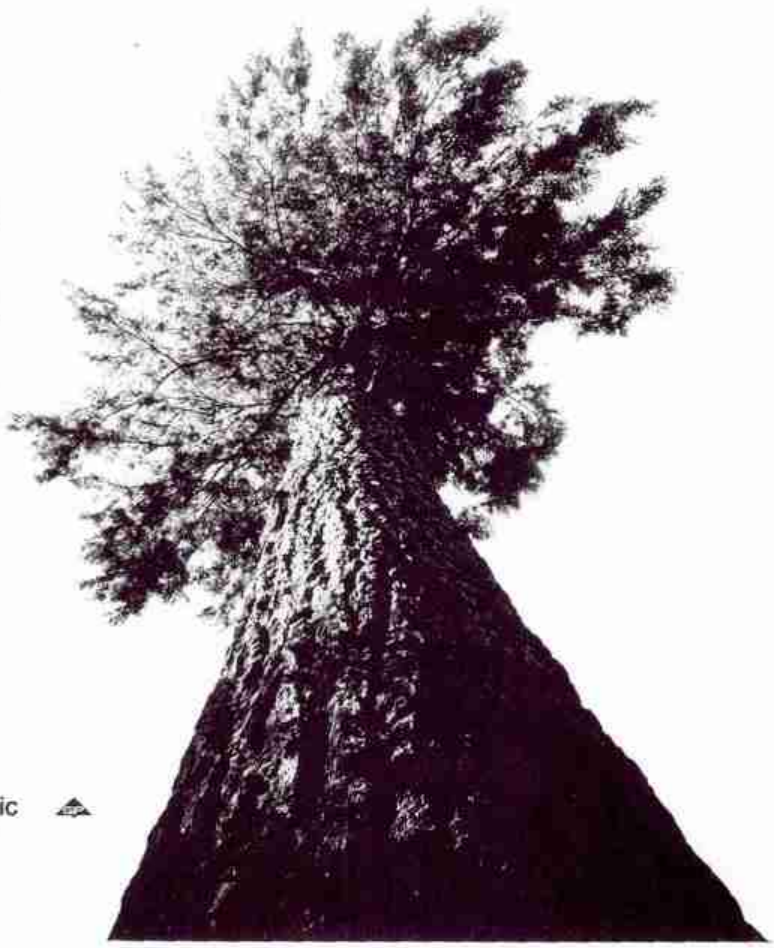
We also develop stronger seedings more likely to survive, then carefully manage their growth. These become "supertrees" that grow faster and taller than trees that nature seeds, doubling or tripling nature's productivity.

Trees do grow back. If managed and harvested wisely they'll be more than just towering, majestic and magnificent.

They'll be equal to all our needs.

For more information on the managed forest and Georgia-Pacific's supertree program, write "Managed Forest," Dept. 19-78, Georgia-Pacific Corp., 900 S.W. 5th Avenue, Portland, Oregon 97204.

Georgia-Pacific
The Growth Company



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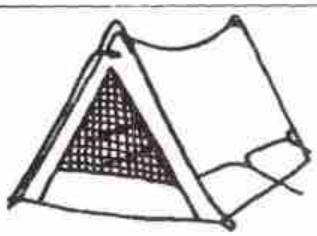

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As a graduate forester you are equipped with the knowledge that tomorrow's forests must be planted today. Now it becomes an important part of your job to tell others how important trees are to the South's economy, and inspire them to plan, plant and nurture their forests as an investment for the future.

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HIWASSEE LAND COMPANY
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Growing and Buying Pulpwood

for Bowater in the South

Union Camp CORPORATION

Franklin, Virginia

MY NAME IS PINUS TAEDA

But most people call me "Loblolly."
I live in the rich sandy loam of North Carolina's northeast.
I am a superior tree, identified and designated by professional foresters because I am most like what a good loblolly pine should be.
I have given small branches for grafting so that my children, by the thousands, will also be superior trees.
I mean jobs for North Carolina people, taxes for North Carolina counties, income for North Carolina forest landowners.
I mean a lot to you. So take care of me. Insects will kill me, fire will scar me. I need your help.

We're adventurers —

in the science of forestry

We're eager to explore new fields.

Like the eucalyptus experiments to find a specie which will thrive in our North American climate and soil conditions.

Like shipping seed to South Africa to try to find conditions where an orchard of our trees can produce seed many years earlier than here.

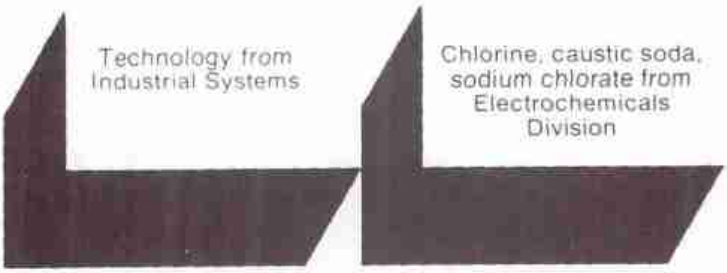
As scientific advancements in technology, chemicals, medicine, human understanding, for example, have made the twentieth century one of lightning-like change, so has the science of forestry spread like wildfire.

We feel the challenge and are proud to be part of it!

BRUNSWICK PULP & PAPER COMPANY

Brunswick Pulp Land Company

We're organized to serve the pulp & paper industry.



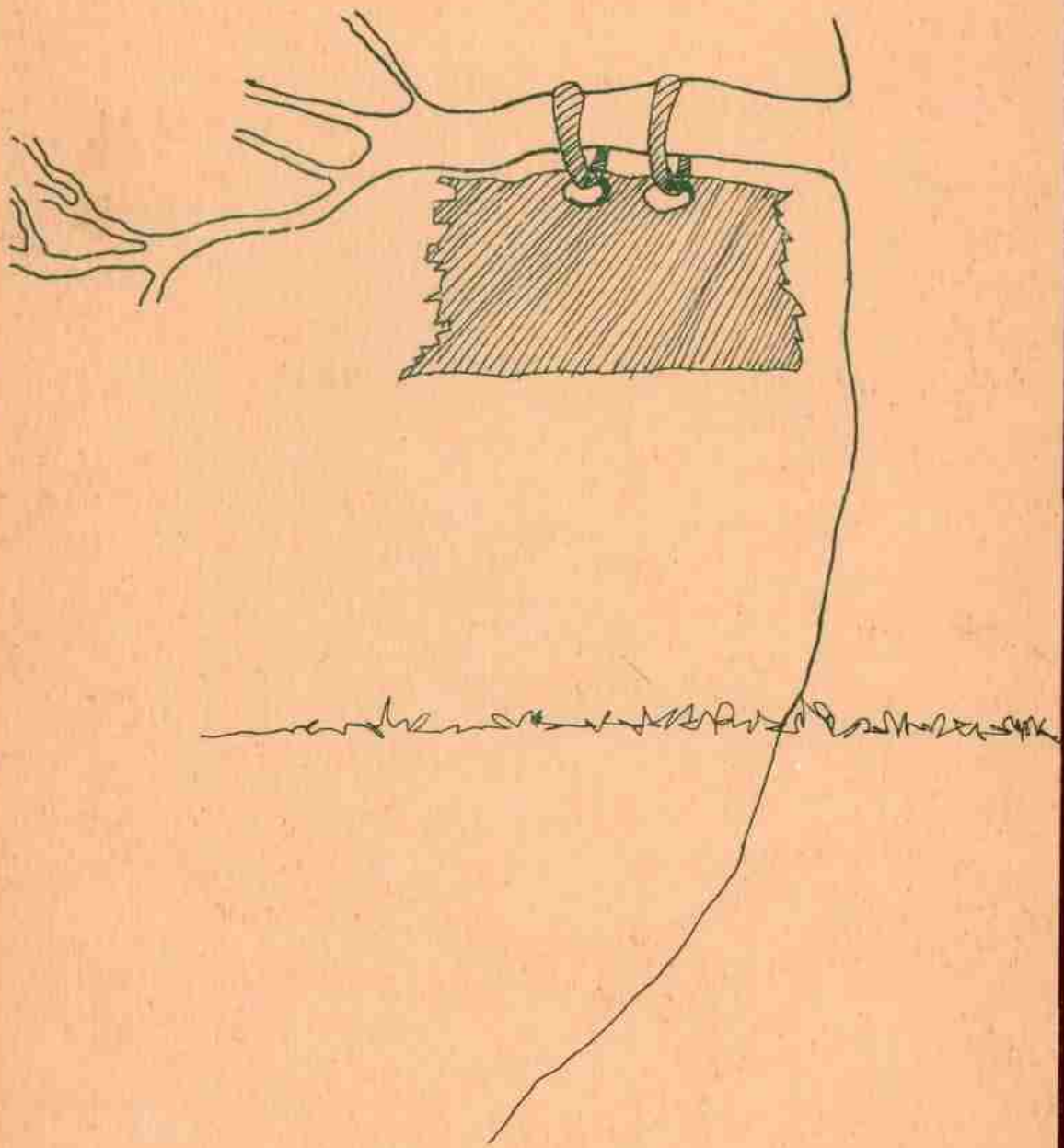
It's no accident that so much of what we do at Hooker is geared toward the pulp & paper industry. We planned it that way.

Our pulping and bleaching chemicals are produced in plants strategically placed to supply major pulp markets and our technical experts have either been drawn directly from mills or have worked closely with mills as engineers, designers or just plain troubleshooters.

As you can see we split our service to your industry pretty much down the middle. On the one hand, our systems people provide you with the equipment and technical expertise you may need to make your own operation run more smoothly. On the other hand, we have people who make sure that our chlorine, caustic soda and sodium chlorate reach you where and when you need it.

To make things even easier, the two groups make a point of working together so that the left hand knows what the right hand is doing.

That's organization.

Hooker Chemicals & Plastics Corp.
Niagara Falls, New York 14302.

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