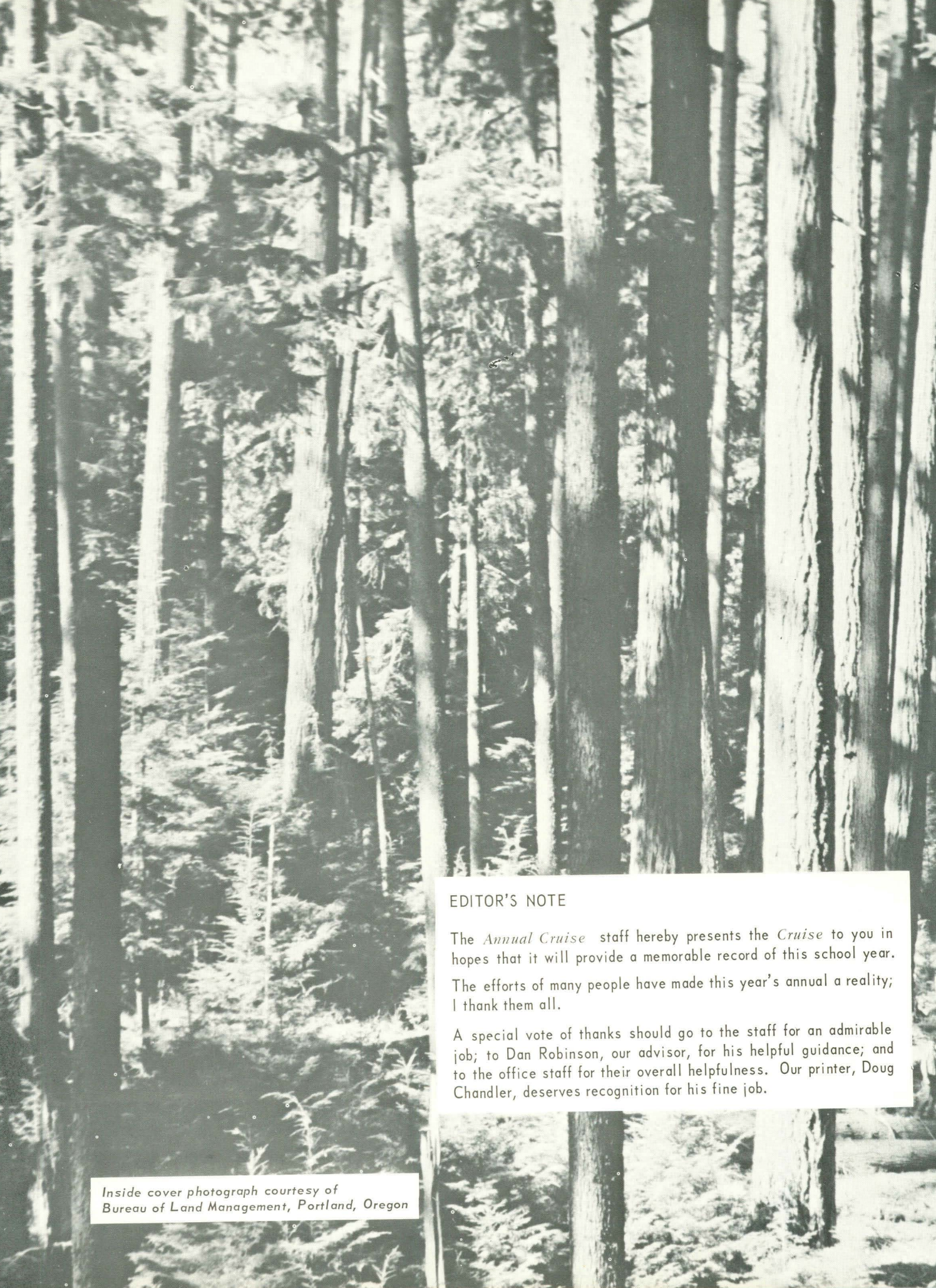
ANNUAL CRUISE 1967



EDITOR'S NOTE

The *Annual Cruise* staff hereby presents the *Cruise* to you in hopes that it will provide a memorable record of this school year.

The efforts of many people have made this year's annual a reality; I thank them all.

A special vote of thanks should go to the staff for an admirable job; to Dan Robinson, our advisor, for his helpful guidance; and to the office staff for their overall helpfulness. Our printer, Doug Chandler, deserves recognition for his fine job.

Inside cover photograph courtesy of Bureau of Land Management, Portland, Oregon

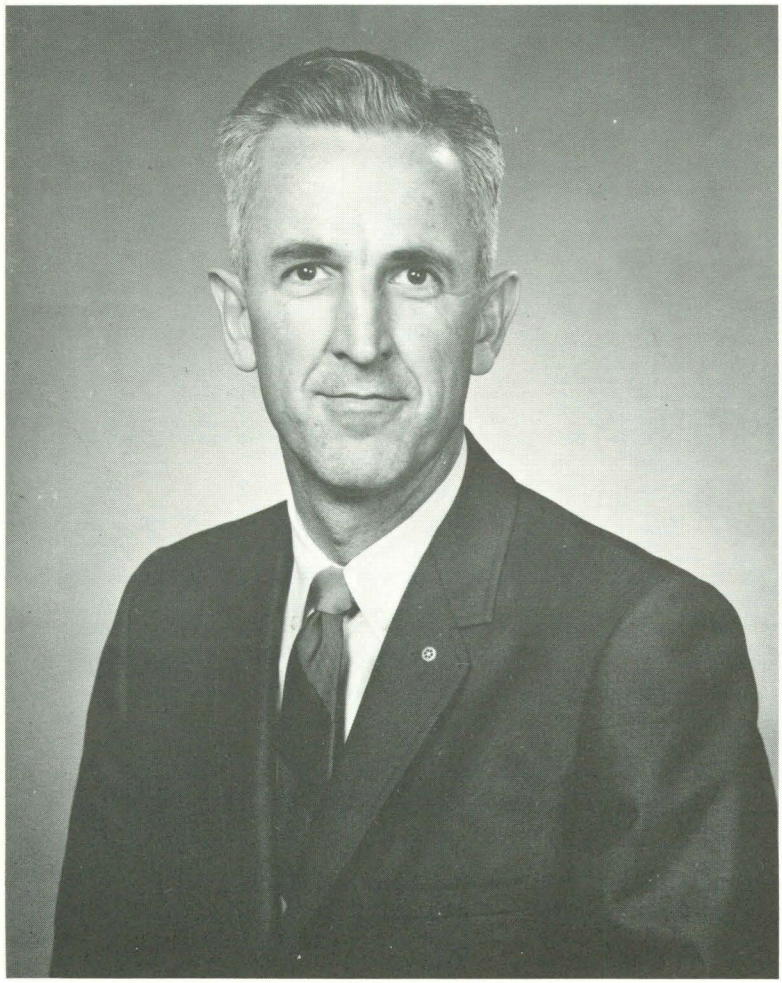
ANNUAL CRUISE

Published Annually By The

Forestry Club

SCHOOL OF FORESTRY

OREGON STATE UNIVERSITY
Corvallis, Oregon



Carl Stoltenberg

DEDICATION

Carl H. Stoltenberg comes to Oregon State University to accept the many and diversified challenges that the leadership of its forestry program presents. Achieving the School's potential of becoming a forestry school that is truly "second to none" is his goal. Reasons for his optimism include the School's stress on quality of performance, both in professors and in students. The size of the School and the national impact of Oregon's forestry activities tend to strengthen his optimistic outlook.

Dean Stoltenberg is 42, married and the proud father of five children, ranging in age from a 16-year-old high school senior son to a 10-year old fifth grade daughter.

Dean Stoltenberg was born in Monterey, California. He received his bachelor's and master's degrees in forestry from the University of California at Berkeley, and a Ph.D. in agricultural economics from the University of Minnesota. His experience extends into the field of research, including assignments with the United States Forest Service in California, South Carolina, Pennsylvania, and Washington, D.C. During the years 1956-1960, he was chief of the Division of Forest Economics Research at the Northeastern Forest Experiment Station. From 1960 until January 1967 he was head of the Forestry Department at Iowa State University. He has also served on the faculties of the University of Minnesota and Duke University.

The Dean is currently a member of the Council of Society of American Foresters and has held various division and section offices in the SAF. He has also served on the Society's accreditation committee.

In February of 1965, he was invited by the Federal Republic of Germany to visit their country. He and six other professional foresters spent four weeks being introduced to various German forestry activities. While in Germany, he observed that much could be learned in the exchange between the two countries in forestry ideas and practices.

The Annual Cruise, on behalf of Oregon State's forestry students, faculty, and alumni, wish Dean Stoltenberg the best of success in his new position. Those of us who have already met the Dean are certain that we have an outstanding leader. Those of you who have not yet met our new Dean, do so! He is anxious and interested in meeting you.

DEAN CARL H. STOLENBERG

THE DEAN'S MESSAGE

WHAT AM I DOING HERE? – is a relevant and important question for consideration by both student and faculty. For a student, the answers should determine the courses he will elect, what he seeks to retain from these courses, what outside activities he participates in, what summer jobs he selects, etc. And for us on the teaching faculty, the answers should provide a basis for continuously revising the material we teach, the way we conduct our courses and the selection of courses to be required in each curriculum. The subject being that important, let's reflect on it together for a few minutes.

As teachers or students in the OSU School of Forestry, what **are** we doing here? Or, what **should** we be doing here?

Lifelong Education

First, I believe we must agree that in four or five years we are **not** providing OSU's forestry students with a **complete forestry education.** Each forester's education began long before he enrolled in his first forestry course at OSU, and it will end only when his concern with forestry ends–hopefully long after he receives his Oregon State diploma. Therefore, we must begin by recognizing that both student and professor are dealing only with a small portion of a forester's education – perhaps only 10% of it time-wise. We therefore discard the tragic misconception of 4 years of education for 40 years of performance.

Some Limitations

Second, we must also acknowledge that professional development during this short period of University activity has several handicaps. Many students don't know where they are headed – some change majors several times. Most are experiencing their first opportunity to make their own decisions – and are learning to recover from the results of the poor ones. Not all of the student's educational activities are professional – for many the preliminaries and rituals associated with the mating process require considerable dedication of energy and educational enthusiasm!

Then there is the delay between professional study and practice. Assume an average of two years between the time a course is taken and graduation, two to four additional years in military service, a similar period in a training position, and you have six to ten years from the time a course is taken until the time the student is called upon to put this knowledge to work in solving a professional problem. Even if the science and techniques of forestry weren't developing rapidly, ten years would be a long time to remember specific techniques and facts!

Add to this the problem of differences between the geographic location of one's college and the location of his professional practice. Companies are growing larger; they have divisions in the South, the West, and the North – yes, and in foreign countries too. Many foresters who move on up the ladder will practice much of their most professional forestry activities in regions other than that in which they received their college education.

Assume too some differences in product orientation. If we focus on sawlogs today and tomorrow's objectives are chemical products, or recreation, or wildlife, or some other product, the target has changed.

Suffice it to say, there are severe limitations on what can be achieved and have lasting value in the professional area during the forester's college years. What then can be achieved during this period? I believe **the college years have unique potential** for (1) developing educated minds and (2) obtaining a suitable foundation for continuing professional forestry education.

Developing Educated Minds

But what is an educated mind? What are its characteristics? I would suggest at least six characteristics for your consideration – and perhaps we can discuss these in greater detail at a Forestry Club meeting sometime.

1. An educated mind is actively curious.
2. An educated mind is one that is critically receptive to new ideas.
3. An educated mind is one that is both knowledgeable and respectful of the past.
4. An educated mind is one which is characterized by intellectual generosity.
5. An educated mind is imaginative.
6. An educated mind is one which has a keen sense of the limitations of pure intellect.

The university community should provide an excellent climate for initiating the process of developing such minds. Most forestry students will find their university years the best opportunity of their lives for such an experience. Any forestry school worthy of existence in a university framework will give major attention to encouraging and insisting upon the individual student developing his imagination, his curiosity, his receptivity to new ideas, his respect for the past, his intellectual generosity, and his faith and system of values. Courses, curricula, and extracurricular activities should all contribute to this fundamental goal.

Foundation for a Continuing Education

The university setting also has unique potential for enabling the life-time student to obtain a sound foundation for his professional forestry education, a foundation which includes a working knowledge of carefully selected forestry-practice facts and principles. This foundation can be secured most successfully during the university years because of the physical **separation** of the classroom from both the forest and the operating unit. This detachment allows us to start with problems that are so simplified that they are unreal – but graspable. Successfully coming to grips with such problems enables the student to gradually move to more complex and realistic ones, with both confidence and competence.

This detachment also allows the student to become intellectually involved with an extremely wide range of both forest and institutional conditions, rather than being restricted to the single forest type, forestry agency, political setting, etc. of an actual employer. Properly handled, this detachment enables the forestry student not only to see the forest as well as the trees, but to see people and society as well as forests. He is able to step back and study the social, economic and political consequences of various forest management alternatives. The profession of forestry assumes greater stature and importance to the new forester as its potential contribution is viewed from this foundation.

Likewise, this detachment allows the educational process to focus on principle rather than fact and detail. For example, in on-the-job training for cruising, the forester learns one company's specific

techniques for estimating volume, cull, defect, etc., for determining the intensity of the cruise, etc. But in the University a student appropriately studies principles of sampling theory and personally investigates their application to a wide range of forestry problems, thus developing a much broader and sounder foundation for professional education than the specific-technique focus of on-the-job training.

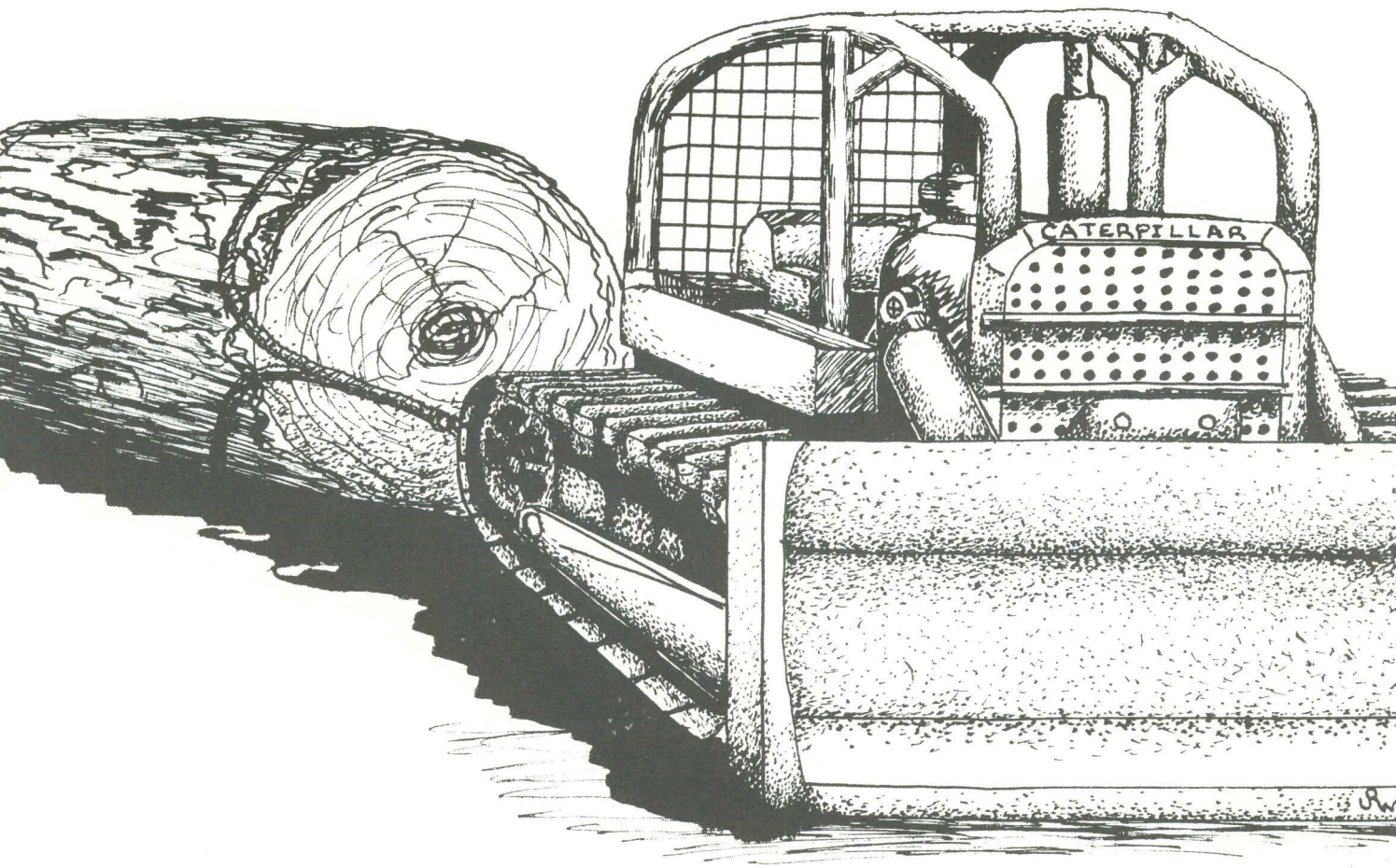
Notice too that in on-the-job training the young forester is taught the detailed application of techniques – in the University he ideally wrestles with the problems and uses his own initiative in choosing among alternative techniques for solving such problems – again a preferable foundation for professional education.

At Oregon State we are indeed fortunate. We have the ideal learning situation in which theory and practice can be experienced in the classroom and the forest on the same day. We also have the university setting which provides the advantages of detachment. The professor's problem will always be one of achieving an appropriate balance between the two.

Challenge

I encourage each of you students to make the very most of the unique opportunities presented by the university phase of your forestry education. We on the faculty are striving to provide a conducive climate – one that will be most helpful in enabling you to develop both an educated mind and the soundest possible foundation for a lifetime of continuing professional education and productivity.

STAFF



FOREST ENGINEERING

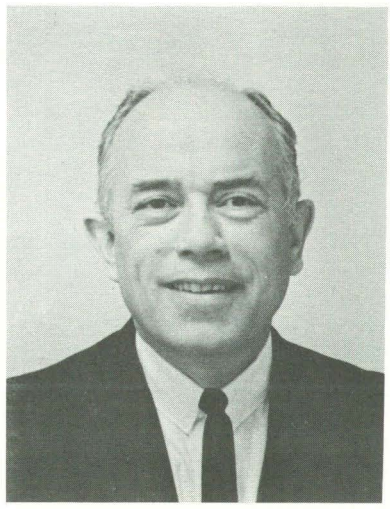
WILLIAM A. DAVIES

Head, Forest Engineering Dept.

Bill graduated from the University of Washington with a B.S.F. in 1938. He later received his M.F. from the U. of O. in 1946. Bill came to O.S.U.in 1946and now teaches logging plans, transportation and costs, plus "various graduate courses." Bill is also manager of the school forest properties.

JOHN E. O'LEARY

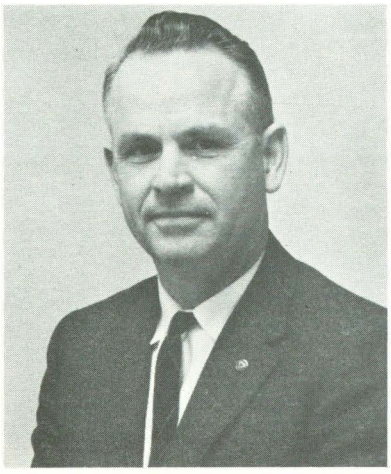
John was awarded his B.S. in 1942 from Michigan State and his M.F. in 1947 from Oregon State. He joined the faculty in 1949 and presently teaches many upper division and grad forest engineering courses. John lists his special interests as experimental logging and surveying methods and equipment.



ROBERT L. WILSON

Bob received his B.A. from the University of Iowa in 1942 and his M.F. from Colorado State in 1947. In 1952, Bob came to O.S.U. and presently teaches lower division forest engineering courses. Bob says that his main interest is skiing.

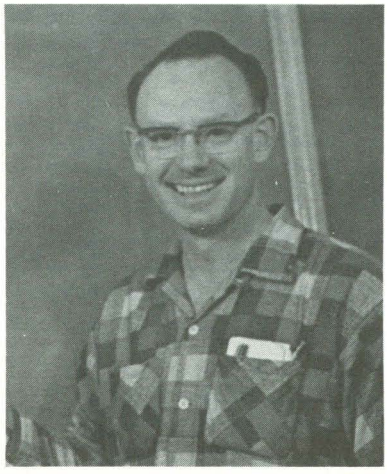
FOREST MANAGEMENT



J. RICHARD DILWORTH

Head, Forest Management Dept.

Dick received both his B.S. and his M.S. from Iowa State University in 1937 and 1938, respectively. He came to O.S.U. in 1946 to teach. After a brief interruption, he returned to O.S.U. in 1956 with a Ph.D. from the University of Washington. His studies and his classes are in aerial photo-interpretation.



JOHN F. BELL

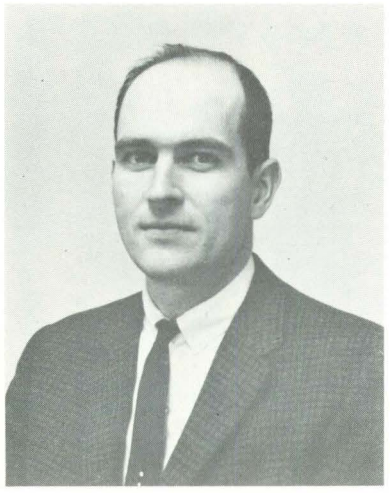
John graduated from O.S.U. in 1949 with a B.S.F. degree. He got his M.F. from Duke University in 1951. In 1959 he returned to O.S.U. and taught mensuration classes. His special interests are levels-of-growing stock and variable plot sampling. John is now working towards his doctorate.

GEORGE W. BROWN

George received his B.S. from Colorado State in 1960. In 1961 he earned his M.S. in Forest Hydrology at the same school. This year George received his Ph.D. at O.S.U. and presently teaches a graduate course in water quality while conducting research. George says he likes to hunt, fish, and ski for fun and relaxation.

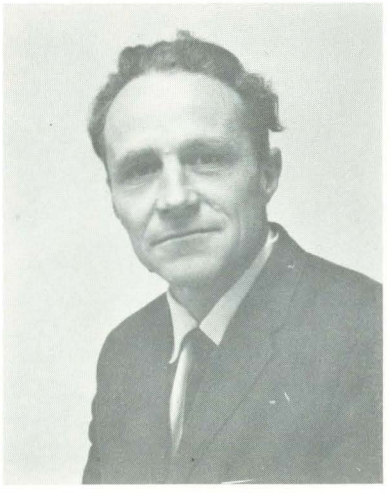
WILLIAM K. FERRELL

Bill received his B.S. in 1941 from the University of Michigan. He earned his M.F. and his Ph.D. from Duke University in 1946 and 1949, respectively. In 1956, he came to Oregon State and now teaches forest ecology and graduate level management courses. He is currently engaged in research on photosynthesis, respiration and drought resistance studies on Douglas-fir seedlings.



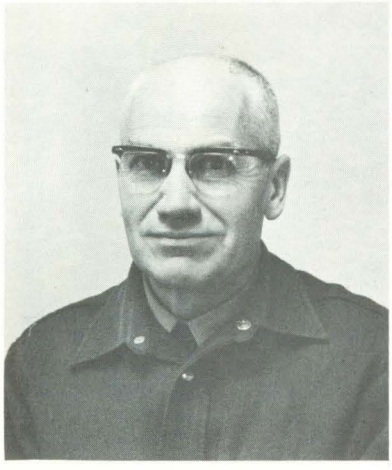
LLOYD W. GAY

Lloyd received his B.S. from Colorado State University in 1955. In 1959 he received a Diploma in Forestry while a Fulbright Scholar at the Australian Forestry School. Lloyd earned an M.F. and Ph.D. from Duke in 1962 and 1966 respectively. Lloyd is now conducting full-time research in forest evapotranspiration, but he plans to teach some courses later on. Larry's major hobby is pistol target shooting.



HELGE IRGENS-MOLLER

Helge received his B.S. from the Royal Veterinary and Agricultural College at Copenhagen, Denmark in 1949. He received a Ph.D. in Botany from O.S.U. in 1958 and joined the School of Forestry staff in 1959. Helge presently teaches one graduate course in Forest Genetics and conducts research in this field. Helge lists gardening and hiking as his hobbies.



ROBERT F. KENISTON

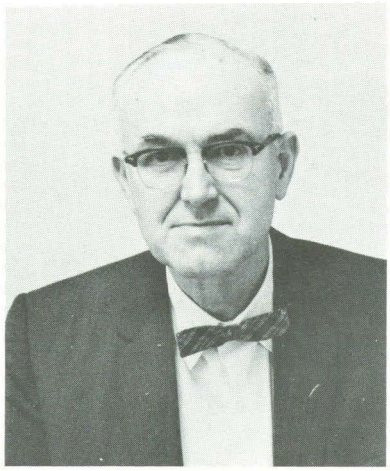
Bob received his first degree in 1929, an B.A. from Nebraska. He went on to get his B.S. in 1937 from California; his M.S. in 1941 from California; and after sixteen years of teaching at O.S.U., his Doctor of Forestry in 1962 from Yale. Bob teaches tree identification, dendrology, forest valuation, and various graduate courses. One of his many special interests is the interrelationships between forest and range.

JAMES T. KRYGIER

Jim received his B.S. in 1952 and his M.S. in 1955, both from Utah State University. He has taught at O.S.U. since 1954, taking 1960-61 off for advanced studies at Colorado State University. He teaches watershed management and forest hydrology. Jim lists as his main interest a study on water budgets of forest stands.

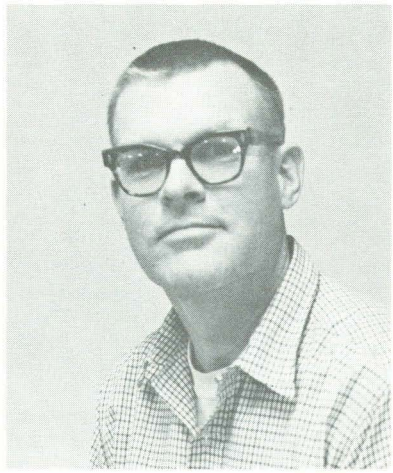
CHARLES S. LEWIS

Chuck graduated from OSU in 1942 with a B.S.F. Since then until returning to OSU this year, he has worked in industrial forestry. This year Chuck has taught "little mens ". Chuck says his interests center around people, trees, and aircraft.



WALTER F. McCULLOCH

Mac received his B.A. from the University of British Columbia in 1925. He obtained his M.S. in 1936 from Syracuse and came to O.S.U. the next year. Mac taught forest management until he was appointed Assistant State Forester of Oregon in 1942. In 1947, Mac earned his Ed.D. from the University of Oregon. In 1955, he was appointed Dean of the School of Forestry. Last year, Mac retired as Dean and is now teaching forest orientation courses.

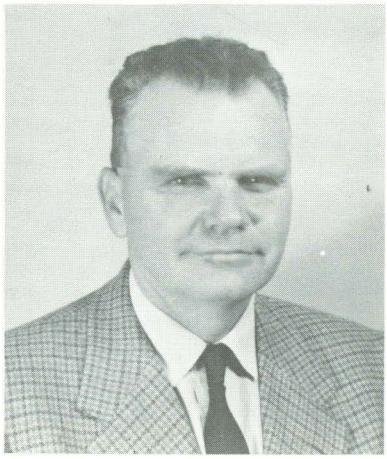


MICHAEL NEWTON

Mike graduated from the University of Vermont in 1954. He received a second B.S. from Oregon State in 1959, along with his masters. In 1960, Mike joined the faculty. In 1964, Mike received his Ph.D. from O.S.U. Presently Mike teaches a few grad courses and works at the forest research lab. He lists his main interests as stump ranching and brush stomping.

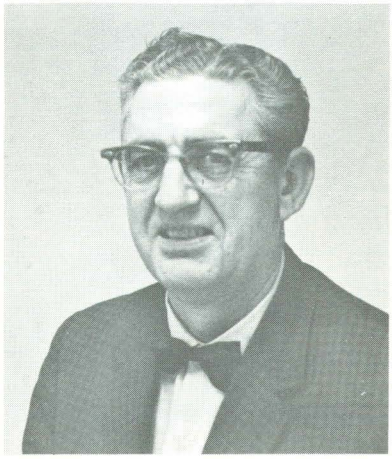
DAVID P. PAINE

Dave received both his Bachelor's and his Master's degree from Oregon State in 1953 and 1958, respectively. He went to the University of Washington and earned his Ph.D. in 1965. Dave has taught at O.S.U. since 1962. He presently teaches several forest management courses. Dave lists statistical processes for aerial photo mensurational techniques as his special interest.



PHILIP L. PAINE

Phil received his B.S.F. in 1928 from O.S.U. Since graduation 'till his retirement in 1959 Phil had served in various capacities with the U.S.F.S. At retirement he was personnel officer in the Portland office. Presently Phil is leading discussion seminar in Forest Administration. Phil lists photography, archeology, swimming, and traveling about the U.S.A. via car and trailer as his hobbies.

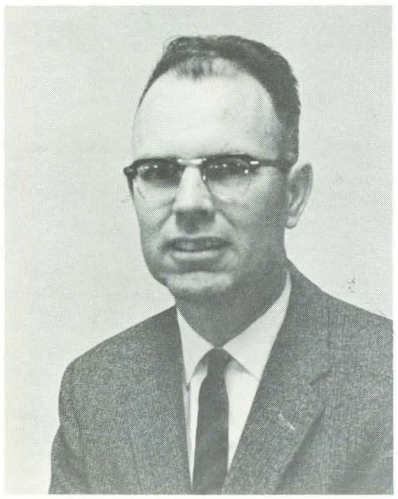


WILLIAM N. PARKE

Bill received his B.S.F. in 1933 from O.S.U. After a distinguished career with the forest service, which included Bill's appointment to the head of Operation Outdoors, a recreation improvement program, Bill came back to O.S.U. in 1965. He has taken over courses in recreation and teaches general forestry. Bill lists winter sports administration as one of his interests.

DAN D. ROBINSON

Dan received his B.S.F. from O.S.U. in 1940 and his M.F. from Syracuse in 1942. In 1946, he came to teach at O.S.U. He presently teaches silviculture, pine practices, and fire control. He is advisor to the Hi-Lead and Annual Cruise. Dan lists some of his special interests as woodworking and developing learning aids for class use.

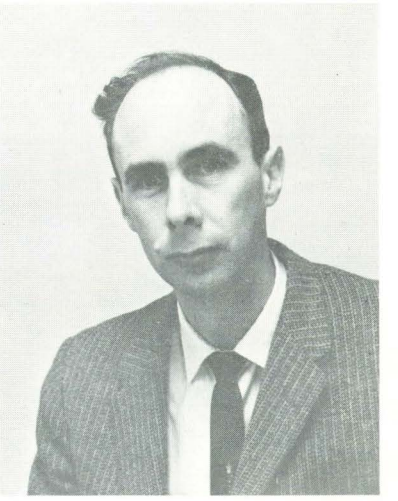


CHARLES F. SUTHERLAND, JR.

Chuck came to O.S.U. in 1959 with a B.S.F. and a M.F. in economics which he received in 1948 and 1952, respectively, from the University of Idaho. He received his Ph.D. in 1962 from the University of Idaho. He received his Ph.D. in 1962 from the University of Michigan. Chuck presently teaches economics and is engaged in research. He is presently interested in taxation.

WILLIAM P. WHEELER

Bill received his B.S. and his M.F. from the University of Minnesota in 1948 and 1949, respectively. Upon receiving his Master's, Bill joined the O.S.U. staff. Presently, Bill is the personnel director and teaches forestation. Bill's main interest is reforestation.

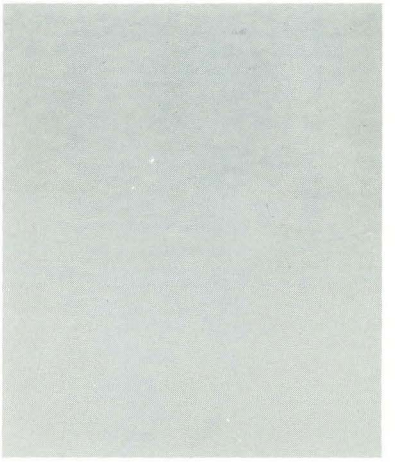


STEVE WOODARD

Last year Steve earned his M.F. at O.S.U. He had received his B.S. from O.S.U. in 1963. Steve has taught here since 1963 and presently spends most of his time in research while teaching several courses. His research is involved with vegetative competition in Douglas-fir plantations.

RAY A. YODER

Ray earned his B.S. from O.S.U. in 1941 and his M.F. at Harvard in 1942. In 1949, Ray joined the O.S.U. faculty and presently teaches various management courses. He lists his main interests as forest taxation and forest industry problems.



GEORGE W. YORK

George received his B.S. in 1962 from O.S.U. in 1966 George taught science and math for three years in a jr. high school. Presently he teaches tree identification, while working towards his M.S. in systematic botany. George likes hunting, fishing, and raising tropical fish.

FOREST PRODUCTS

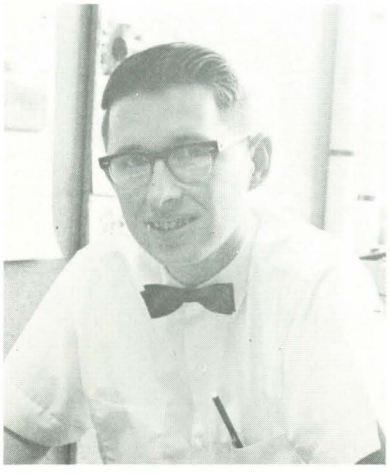
WILLIAM I. WEST

Head, Forest Products Dept.

Bill received his B.S. and his M.F. from the University of Washington in 1939 and 1941 respectively. He joined the faculty in 1946 and presently teaches upper division and graduate courses in forest products. He loves to travel and is a strong advocate of the "See America first" idea.

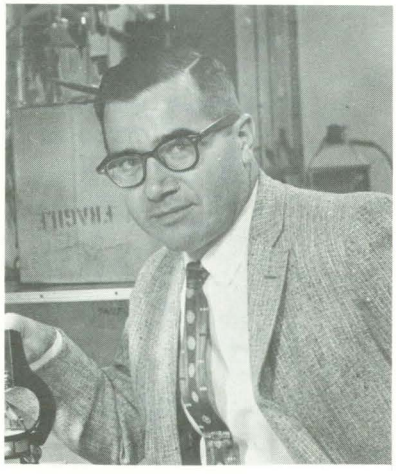
LEIF D. ESPENAS

In 1938 Leif, received his B.S. from New York State University and he received his M.S. in 1940 from the University of California. Leif began working for the Oregon State Forest Research Laboratory in 1947, and presently teaches some of McKimmy's Forest Product courses. Fishing and golfing are Leif's favorite hobbies.



ROBERT L. KRAHMER

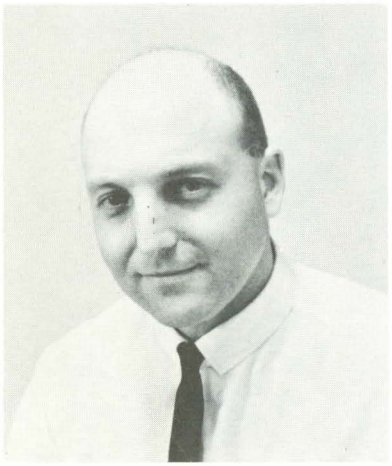
Bob received his B.S. and M.S. from OSU in 1958 and 1960 respectively. He received a Ph.D. in Wood Products Engineering from New York State University in 1962. He presently teaches various lower division courses while McKimmy is on leave as well as several upper division courses in Forest Products.



MILFORD D. McKIMMY

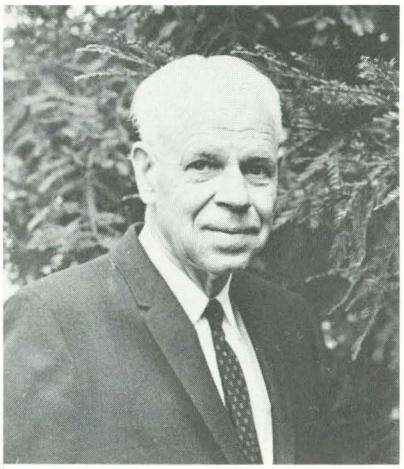
Mac received his B.S. in 1949 from Michigan State University. In, 1951, he obtained his M.S. from Oregon State and joined the staff in 1953. He took a leave of absence to earn his Ph.D. from the New York State College of Forestry in 1955. He is presently on sabbatical leave and plans to return next year.

PROFESSORS EMERITUS



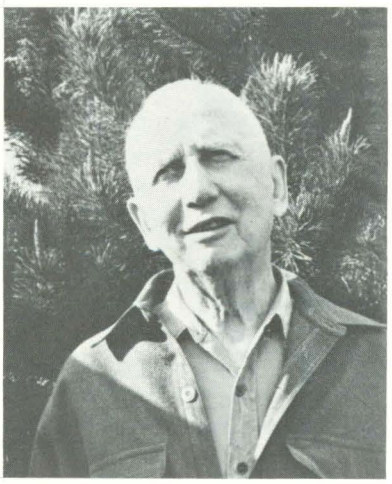
ANTONE C. VAN VLIET

Tony received both his B.S. and his M.S. degrees from O.S.U. in 1952 and 1958 respectively. He has been teaching various forest products courses since 1955. Last year Tony was voted outstanding teacher of the year by the students. Tony's side interests are many and varied, running from art to sports.



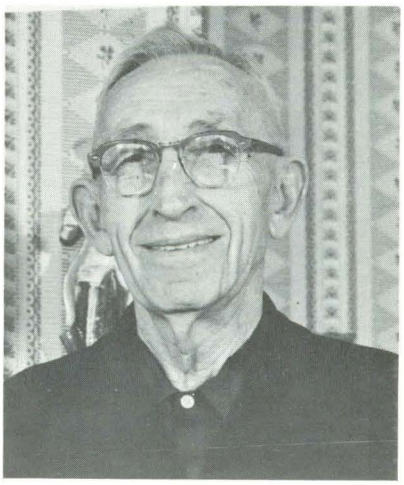
GEORGE H. BARNES

George came to O.S.U. in 1943, having earned a B.S. at the University of Washington in 1924 and a M.S. at the University of California in 1929. In 1946, he earned his Ph.D. at Duke University. Since 1954, George has served as Associate Director of the Forest Research Division of the Agriculture Experiment Station. On July 1, 1966, George retired. He is now serving on a part time basis in his field of study, mensuration.



ALEX J. JAENICKE

Alex earned his B.S. in 1912 from Pennsylvania State University. He worked with the U.S. Forest Service for forty-five years, until joining the O.S.U. staff in 1956. Though retired, Alex is far from inactive. He has a project, under the Hill Family Foundation support, on improvement of technical report writing. He is a member of the Men's Garden Club. He likes to translate German scientific articles and in his spare time is taking courses through the Division of Continuing Education, University of Oregon.



HENRY R. PATTERSON

Pat holds the record for length of service at O.S.U. He came here in 1920 after receiving his B.S. in civil engineering from the University of Oregon in 1909 and spending the next 11 years as a logging engineer. Pat retired as Head of the Forest Engineering Department in 1951.

ADMINISTRATION STAFF

Dean Stoltenberg

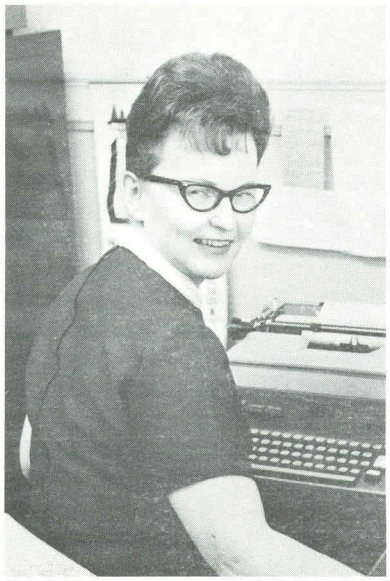
EARLE K. McLAREN

Ken graduated from the U.S. Navy Academy in 1934 with a B.S. in Electrical Engineering. In 1960, he came to Oregon State and obtained his B.F. in 1963. He presently teaches forest engineering labs.

WILLIAM P. WHEELER

Bill graduated with a B.S. degree from the University of Minnesota in 1948 and received his M.F. a year later from the same school. In 1949 he came to O.S.U. and taught forest management and engineering courses. Bill was appointed Director of Personnel in 1955.

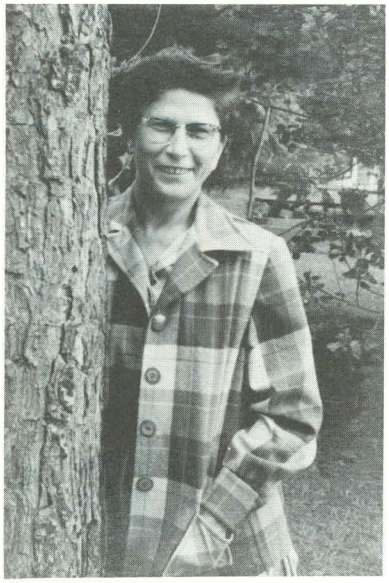
Clara Homyer, Dean's Secretary



Winnie McFarland

Linda Fletcher

OFFICE STAFF



Mary Laurence, Caretaker

Lorraine Hunteman

Karen Rambo

an original by
BOHEMIA & (nature)

BOHEMIA

LUMBER COMPANY

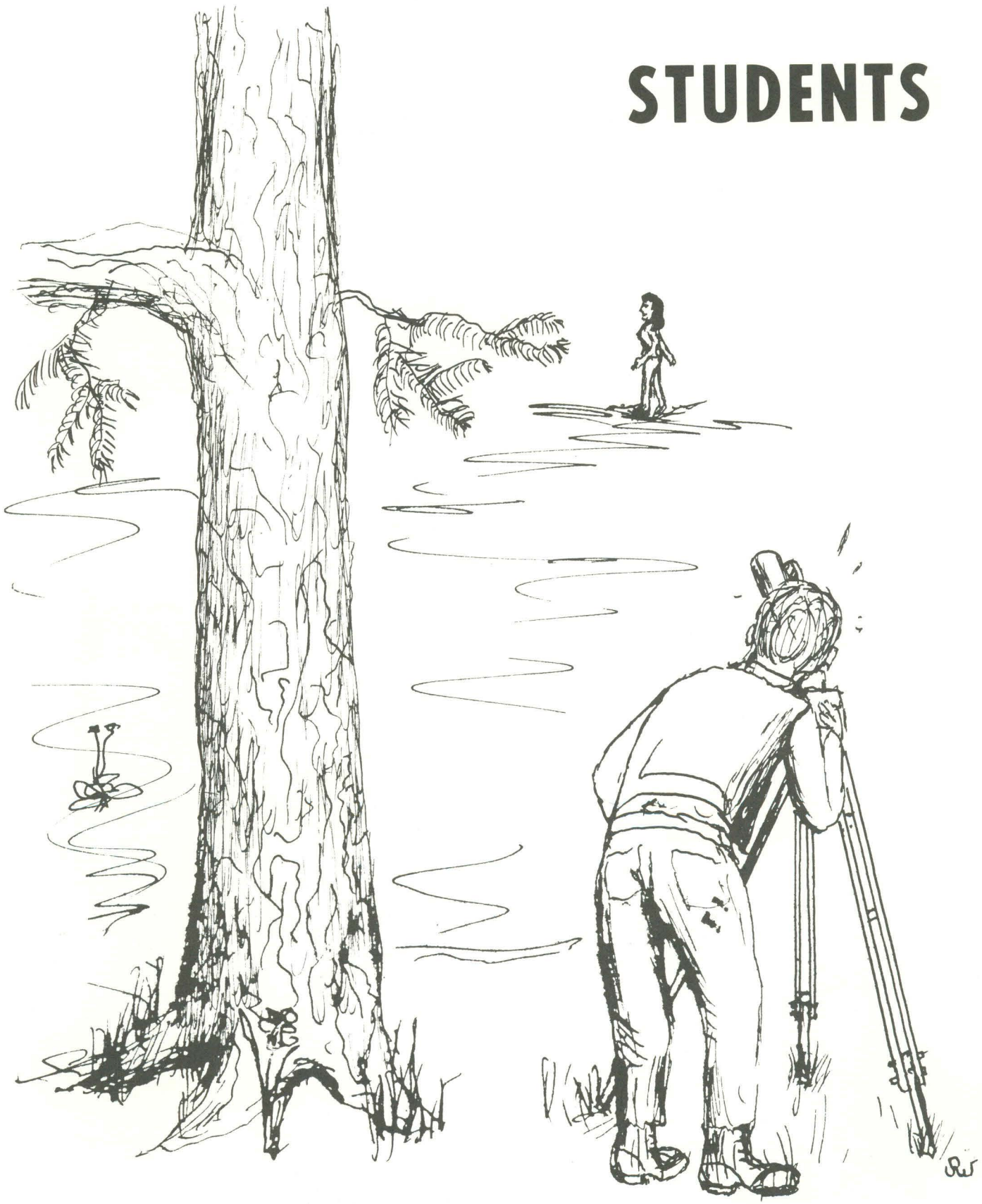
CULP CREEK, OREGON

Call 946-1511 TWX Cottage Grove 3255

LUMBER PLYWOOD VENEER CUT STOCK INDUSTRIAL CLEARS

Loran L. Stewart '32 Faye H. Stewart '39 Lawrence Chapman '59

STUDENTS



GRADUATE STUDENTS

GARY CLENDENEN
F.M.
Dillard, Ore. – Single

Experience:
1 season DFPA
4 seasons USFS

Activities:
Forestry Club
Society of American Foresters
Spring Thaw
Mac Forest Day

Scholarships:
Dad's Club
Arvin H.S. Faculty Club

Other Degrees:
B.S. Oregon State University

Future Plans:
USFS, or OSBF

ROLLIN R. GEPPERT
F.M.
Lake City, Minn. – Single

Experience:
1 year, Minnesota Dept. of Conservation
3 seasons, USFS

Future Plans
Undecided

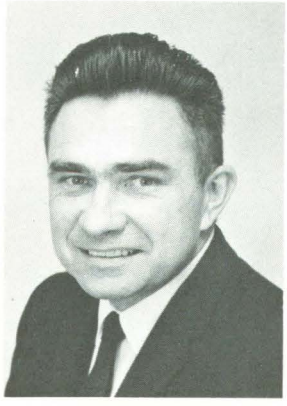
JACK ONEAL
F.M.
Corvallis, Ore. – Married

Experience:
8 years Accounting
1 season USFS
2 seasons, Research

Activities:
Forestry Club
Society of American Foresters
Xi Sigma Pi
Spring Thaw
Mac Forest Day

Scholarship:
South Santiam Fellowship

Future Plans:
Forest Economics Research



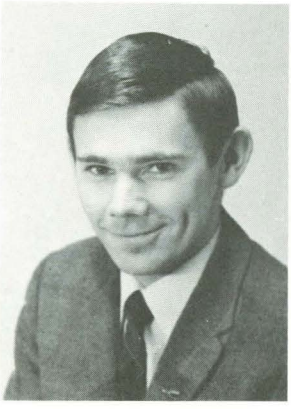
BIJAN PAYANDEH
F.M.
Kerman, Iran – Single

Experience:
2 seasons, Iran Forest Service
Graduate research assistant

Activities:
Annual Cruise
Society of American Foresters

Scholarship:
South Santiam Fellowship

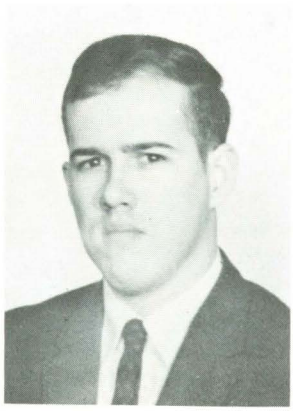
Future Plans:
Teaching and Research at the Forest and Range Institute of Karadj, Tebran, Iran



WOLFHARD F. RUETZ
F.M.
Bellevue, Wash. – Single

Experience:
2 seasons, USFS Olympic National Forest
B.S. University of Washington

Future Plans:
Complete graduate work



STEVE TITUS
F.M.
Corvallis, Ore. – Married

Experience:
4 seasons USFS

Activities:
Society of American Foresters

Scholarship:
MacDonald Fellowship

Other Degrees:
B.S. Oregon State University

Future Plans:
U.S. Army Corps of Engineers

JOHN WARNING
F.E.
New Lenox, Ill. – Single
Experience:
3 seasons USFS
Activities:
Xi Sigma Pi
Phi Kappa Phi
Scholarship:
Snellstrum & Autzen
Future Plans:
Work

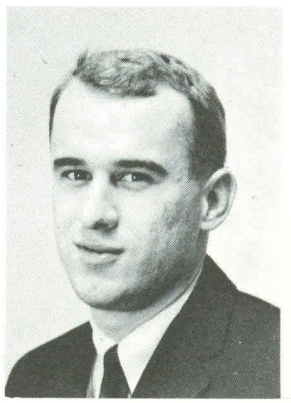
GRADUATE STUDENTS NOT PICTURED

Alden, John N.
Anderson, Allen H.
Arney, James D.
Atzet, Thomas
Berry, William F.
Bropleh, Patrick D.
Brunette, Andre Paul
Cleary, Brian D.
DeMars, Donald J.
Dinus, Ronald S.
Ek, Alan R.
ElHassan, Babiker A.
Fick, Lawrence R.
Gilleran, Dennis J.
Groman, William A.
Hartley, Robert W.
Heiner, Terry C.
Hettinger, Allan J.
Hicks, Thomas H.
Hildreth, Steven C.
Holt, Harvey A.
Hong, Soon Koo
Hooven, Edward F.
Hori, Koichi
Kalk, Peter A.
Krammes, Jay S.
Laird, Peter P.
Lewis, Charles S.
Liu, Shen-Cheng (Sam)
Lo, Cheng-fan
Mothershead, John S.
O'Dell, Tharon E.
Peterson, Charles A.
Phillips, Daniel W.
Randall, Robert M.
Ruetz, Wolfhard F.
Snyder, Robert
Stewart, Ronald Eugene
Symons, Richard E.
Thompson, Roy V.
Woodard Ernest Steve

GRADUATING SENIORS

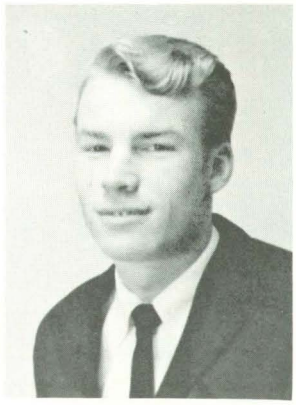
JOHN E. BORRECCO
F.M.
Anchorage, Alaska – Single
Experience
4 seasons USFS
Activities:
Forestry Club
Living Group–Vice Pres.
Future Plans
Army
USFS

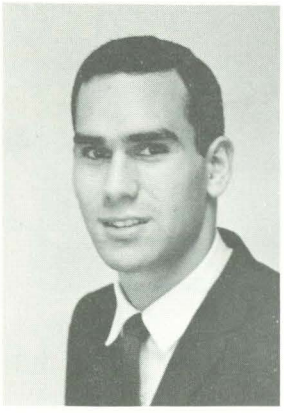
EVERT J. CHALLSTEDT
F.E.–F.M.
Seattle, Wash. – Single
Experience:
3 seasons USFS
Activities:
Forestry Club
Soc. of Ameri. Foresters
Future Plans:
Armed Forces
Uncertain



CHARLES COLE
F.E.
Portland, Ore. – Single
Experience:
2 seasons Georgia Pacific
1 season Bohemia Lumber Co.
1 season Simpson Timber Co.
Activities:
Forestry Club–Secretary
Living Group–Various offices
Future Plans
Coast Guard O.C.S.
Private Industry

C. CLAY DICKERSON
F.M.
Grants Pass, Oregon
Married, 1 child
Experience:
5 seasons Ore. St. Dept. of For.
Activities:
Forestry Club
Annual Cruise bus. mgr.
Future Plans:
State or Federal agency
Self employment



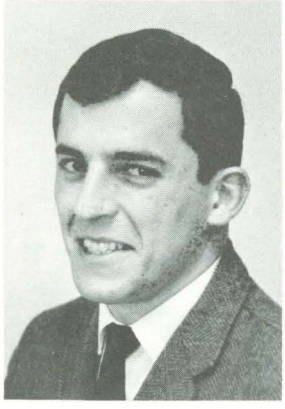


PATRICK DONIVAN
F.M.
Beaverton, Ore. – Married
Experience:
2 seasons USFS
Activities:
Forestry Club–AWFC vice pres.
Fresh. class rep.
Rifle Club–executive officer
Semper Fidelis Club–secretary
Future Plans
Marine Corps
USFS

PHIL EBERT
F.E.–F.M.
Decatur, Neb. – Single
Experience:
1 year BLM
1½ years USFS
1 season Ore. St. Dept of For.
1 season Tygh Valley Lumber Co
1 season Simpson Timber Co.
Activities:
Forestry Club
Future Plans
Rayonier or MacMillian Bloedel

MAX S. EKENBERG
F.M.
Portola, California
Married, 1 child
Experience:
1 season Long Valley Lumber Co
2 seasons construction
1 year Hood Logging Co.
1 season Pearson Bros. Logging
3 years U.S. Plywood Corp.
Activities:
Forestry Club
Society of American Foresters
Spring Thaw
Mac Forest Day
Future Plans:
Private Industry

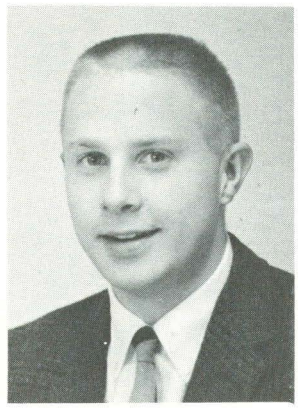
DWIGHT FICKES
F.M.
Louisville, Ohio – Single
Experience:
5 seasons USFS
Activities:
Forestry Club
Spring Thaw
Future Plans
Armed Forces
USFS



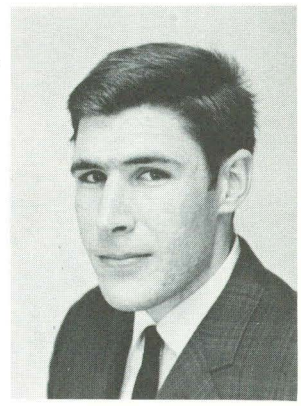
A.J. GIUSTINA
F.P.–B.A.
Eugene, Ore. – Single
Experience:
Woods and Plywood
Activities:
Xi Sigma Pi
Future Plans:
Coast Guard
Production

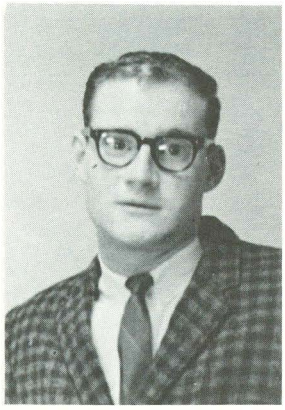
ROBERT W. GLAESER
F.E.
Corvallis, Ore. – Single
Experience:
2 seasons logging
1 season engineering & curising
Activities:
Fernhopper Banquet
Spring Thaw
Mac Forest Day
Track
Future Plans
Forest Industries

HERBERT L. HAMMOND III
F.M. (SCI. OPT.)
Corvallis, Ore. – Single
Experience:
1 season USFS
1 season Oregon State Forest Research Lab.
1 season Weyerhaeuser Co.
4 seasons Retail Lumber Store
Activities:
Society of American Foresters
Xi Sigma Pi; Annual Cruise
Forestry Senator: Blue Key
Scholarships:
Max D. Tucker; South Santiam
Cole, Clark & Cunningham: NSF
Future Plans:
Graduate School, Research

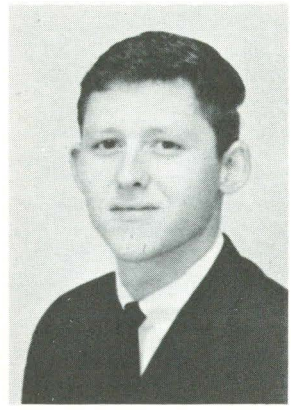


STEVEN HILDRETH
F.M. (SCI. OPT.)
Kalamazoo, Mich. – Single
Experience:
1 season USFS
1 season Weyerhaeuser Co.
Activities:
Society of American Foresters
Xi Sigma Pi
Forestry Club Exec. Council
Future Plans:
Graduate School



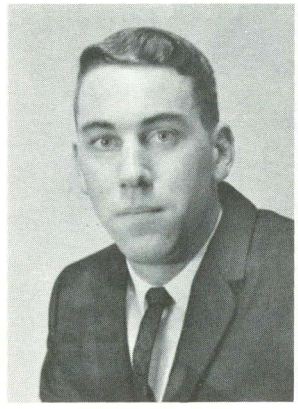


JOHN R. HUTCHINS
F.E.
Plattsburgh, N.Y. – Single
Experience:
3 seasons gen. bldg. contractor
1 season land survey company
Activities:
Spring Thaw
Ski Team
Future Plans:
Private Industry

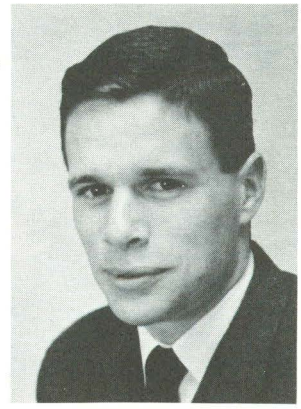


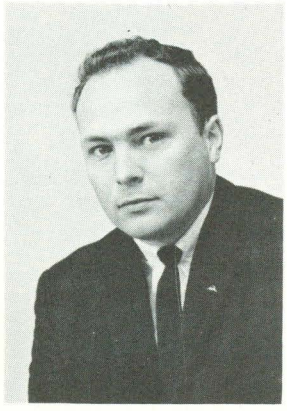
DONALD A. LAURITSEN
F.M. & BUSINESS
Salem, Ore. – Single
Experience:
3 seasons Boise-Cascade Corp.
1 season Ore. St. Board of For.
Future Plans:
Armed Services
Business

JOHN LAWSON
F.E.
Prineville, Oregon
Single



JOHN LEMOS
F.P.
Menlo Park, Calif. – Single
Experience:
1 year USFS
1 year Weyerhaeuser Co.
Activities:
Forestry Club
Xi Sigma Pi
Future Plans:
Private Industry
Lovitt

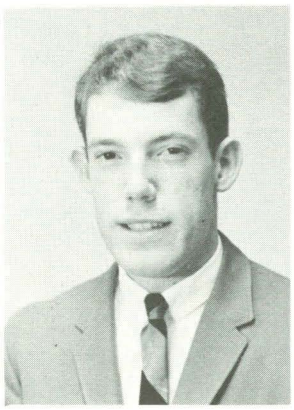




ROGER O. LOVITT
F.E.
Tacoma, Washington
Married, 1 child
Experience:
Surveying
Baloon Logging
Ass't. Instructor–F.E. Labs
Activities:
Forestry Club
Society of American Foresters
Annual Cruise
Scholarships:
Bohemia Foundation
Future Plans:
Washington State Dept. of Natural Resources

MARVIN MATHENY
F.M.
Eugene, Ore. – Single
Activities:
Forestry Club
Soc. of American Foresters
Fernhopper Banquet
Spring Thaw, Chairman
Mac Forest Day

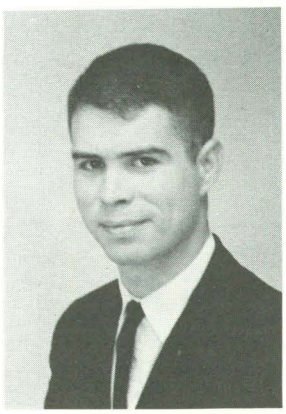
MARK MILLER
F.M.
Sitka, Alaska – Single
Experience:
3 seasons Private Industry
2 seasons USFS
Activities:
Forestry Club
Annual Cruise, Photographer
Spring Thaw
Future Plans:
Navy

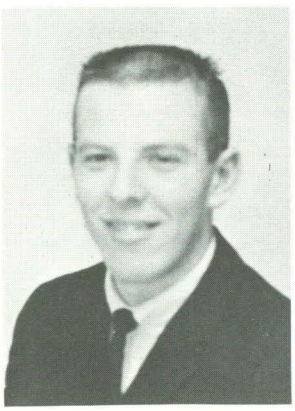


CHARLES B. MINISTER
F.E.
Yerington, Nevada
Single
Experience:
1 season USFS
1 season Weyerhaeuser Co.
1 season Mid Bay Logging Co.
Activities:
Forestry Club
Spring Thaw
Mac Forest Day
Living Group-V.P., Activities chm
Future Plans
Armed Forces
Forest Industries

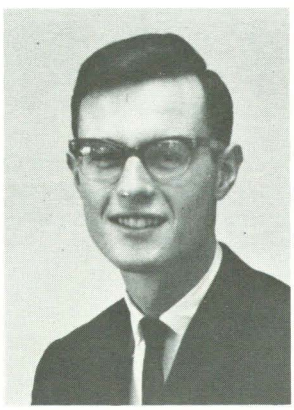
LENARD L. MORIN
F.M.(REC. OPT.)
Portland, Ore. – Single
Experience:
2 seasons USFS
Activities:
Forestry Club, Jr. Class Rep.
American Forestry Association
Society of American Foresters
Xi Sigma Pi
President Honor Board
Fernhopper Banquet
Scholarships:
Autzen Foundation Scholarship
South Santiam
Max D. Tucker
Future Plans:
USFS

CRAIG M. NICHOLSON
F.M. (REC. OPT.)
Portland, Ore. – Single
Experience:
2 seasons USFS
Activities:
Forestry Club, Jr. Class Rep.
American Forestry Association
Society of American Foresters
Xi Sigma Pi
President Honor Board
Fernhopper Banquet
Scholarships:
Autzen Foundation Scholarship
South Santiam
Max D. Tucker
Future Plans:
USFS





DENNIS POPE
F.M.
Aumsville, Ore. – Single
Experience:
3 seasons Ore. St. Board of For.
Activities:
Forestry Club, Treasurer
Society of American Foresters
Xi Sigma Pi
Spring Thaw
Scholarships:
Max D. Tucker
South Santiam
Crown-Zellerback
Fee remission
Future Plans:
Armed Forces

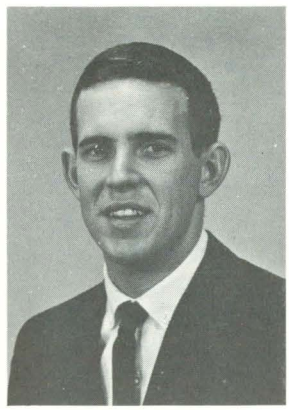


RICHARD L. POWELL
F.M.
Corvallis, Ore. – Single
Experience:
4 seasons USFS
4 seasons Private Industry
Activities:
Forestry Club
Society of American Foresters
Annual Cruise, Ed. & Ad. mgr.
Spring Thaw
Blue Ox Ball
Award:
Annual Cruise Awards
Future Plans:
Undecided

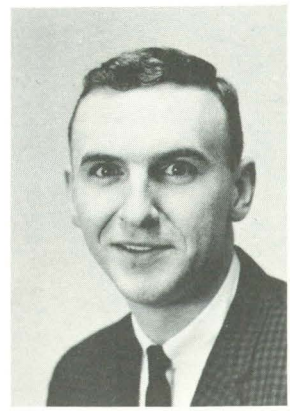
JOHN L. SHOBERG
F.M.
Cottage Grove, Ore.– Married
Experience:
1 season Georgia Pacific Corp.
1 season Row River Veneer
2½ years USFS
Activities:
Forestry Club
Society of American Foresters
Xi Sigma Pi
AWFC Conclave
Spring Thaw
Mac Forest Day
Future Plans:
Navy

DALE R. STENNETT
F.E.
Beaverton, Ore. – Single
Experience:
3 seasons USFS
Activities:
Forestry Club, Soph. Rep.
AWFC, Pres. and Vice Pres.
Xi Sigma Pi
Scholarships:
Max D. Tucker
Hill Family Foundation
Warren Randall Memorial
Future Plans:
Private Industry

ELTON THOMAS
F.M. (REC. OPT.)
La Grande, Ore. – Married
Experience:
6 seasons USFS
Activities:
Forestry Club
Society of American Foresters
Fernhopper Banquet
Spring Thaw
Future Plans:
Recreation Work
Graduate School



TERRY TRANTOW
F.E.
Portland, Ore. – Single
Experience:
4 seasons USGS
1 season logging experience
Activities:
Forestry Club, Secretary
Society of American Foresters
Xi Sigma Pi
Annual Cruise, Photographer
Fernhopper Banquet
Hi Lead
Spring Thaw
Future Plans:
Peace Corps



KENT C. TRESIDDER
F.M.
Coos Bay, Ore. – Single
Experience:
7 seasons USFS
1 season setting chokers
Activities:
Forestry Club
Trail Talk Editor
Living Group President
Future Plans
USFS (Recreation)

CHARLES E. WHITTEN
F.E.
Married
Experience:
3 seasons USFS
Activities:
Forestry Club
Society of American Foresters
Xi Sigma Pi, Forester
Annual Cruise, Advertising
Fernhopper Banquet
Thanes
Phi Kappa Phi
Phi Eta Sigma
Scholarships:
Max D. Tucker
South Santiam
Future Plans:
USFS

DAVID E. WORDEN
F.M.
Portland, Ore. – Married
Experience:
5 seasons Centennial Flour Mill
½ year USFS
1 season O.S.B.F.
3 years market research
Activities:
Forestry Club
Society of American Foresters
American Forestry Association
Xi Sigma Pi
Other Degrees:
B.S. Oregon State University
Future Plans:
Graduate School

SENIORS NOT PICTURED

Berg, Delbert C.
Boucock, Jerry A.
Church, John A.
Clement, Ronald C.
Demars, Donald J.
Ekstrand, Robert E.
Field, James M.
Harris, James R.
Hausotter, Paul R.
Horiuchi, Howard H.
Johnston, Gary T.
Knowles, Lorence E.
Tangen, Lloyd O.
Weston, William S.
Wortendyke, John T.
Wright, Samuel B.
Lang, Leon J.
McGowan, Kenneth L.
Smith, Ashley G.
Symons, Richard E.

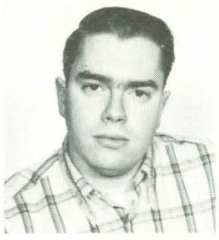
SENIORS

Hal Arbogast

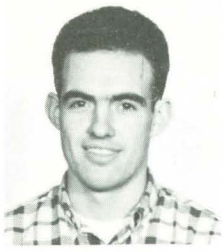
Charles Hundling

Don LaFrance

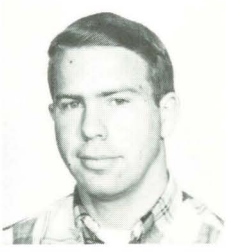
Case Koolhaas



Herb Phillips



Fred Robinson

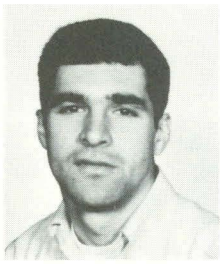


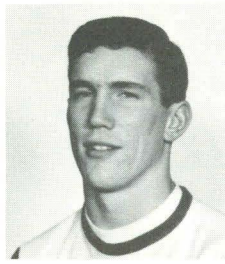
Mike Stewart

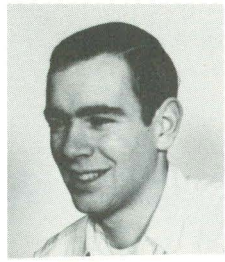
Bruce Wilkinson

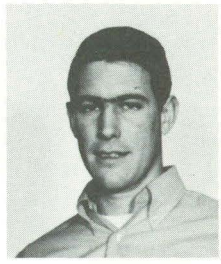
JUNIORS

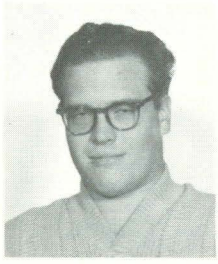

Oran Abbott

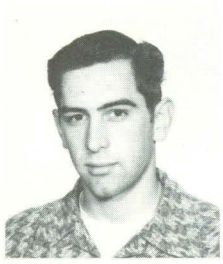

Les Aen

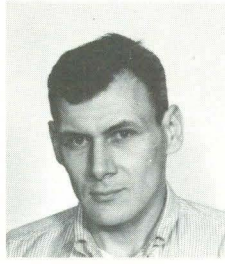

Terry Aman

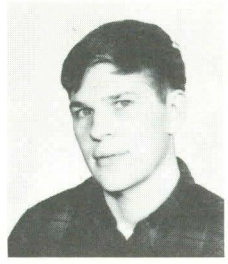

Dan Applebaker

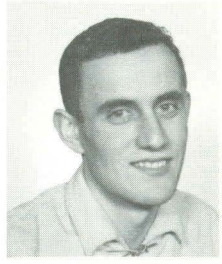

Chan Biggs


Gary Blackman

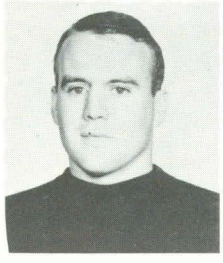

Arnold Brubaker

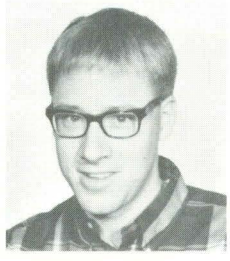

William Cafferata

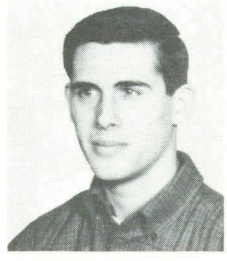

Leander Converse


Rod Davidson

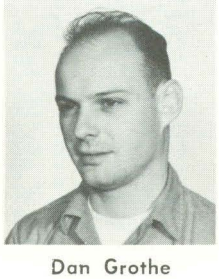

Norman Foeller

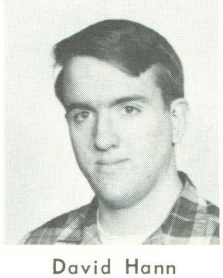

Peter Ganahl

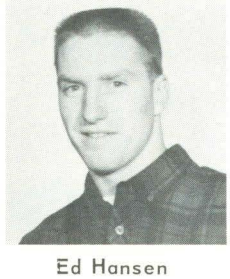

Don Gerig

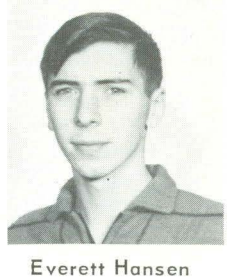

Daniel Goltz


Rod Greene

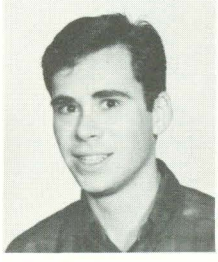

Dan Grothe

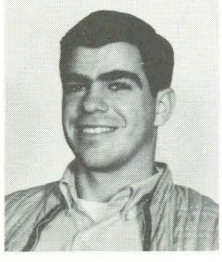

David Hann

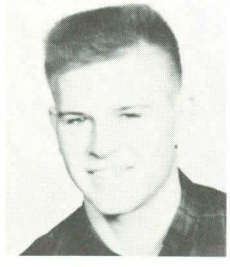

Ed Hansen

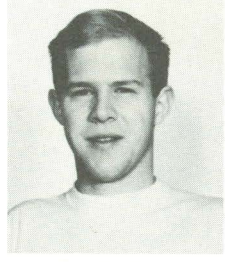

Everett Hansen


Leonard Hanson

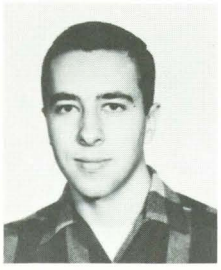

Richard Hardman


Tom Hay

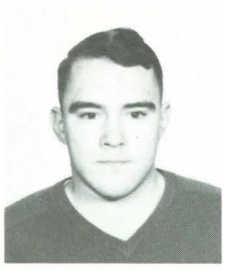

Kim Iles


Pat Ireland


Jim Jess

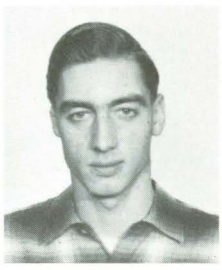


Bill Johns



Mel Johnson

Jacob Messing



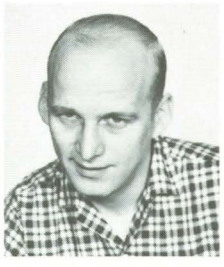
Bruno Meyer

John Monfore

David Montgomery

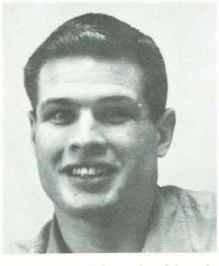
Bill Niedermeyer

James Nielsen

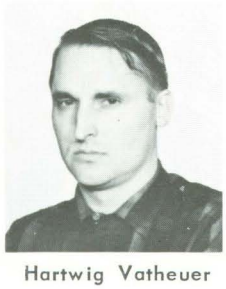


Gene Norman

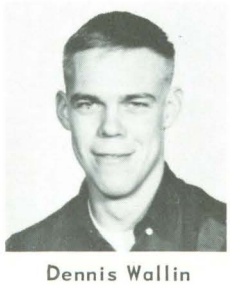
Dan Robertson



George Shackelford

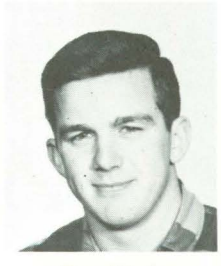


Hartwig Vatheuer

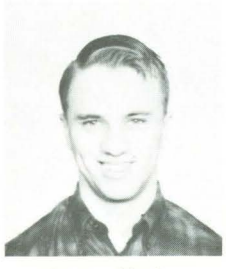


Dennis Wallin

Olin Walrath

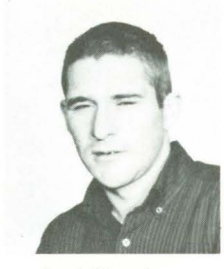


Don Wick



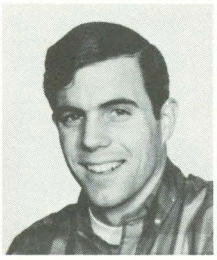
James Wick

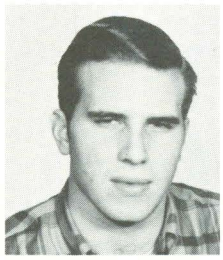
Stan Wilde

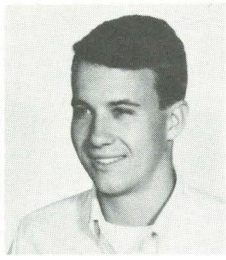


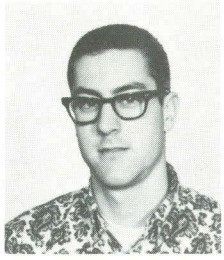
Joel Woods

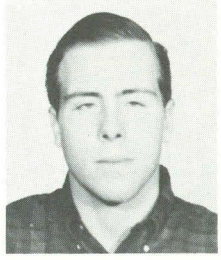
SOPHOMORES

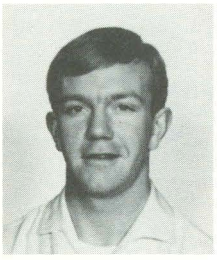

Scott Abdon

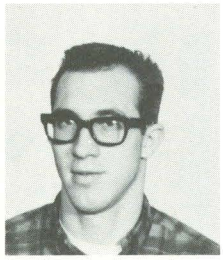

David Armstrong

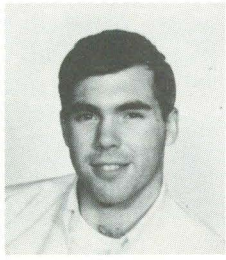

Leland Ash

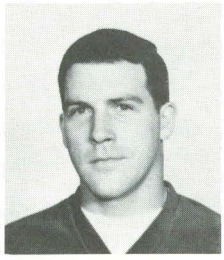

Martin Bailey

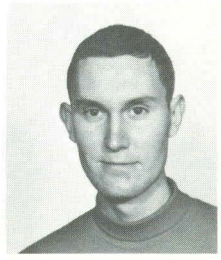

Rex Baumbeck

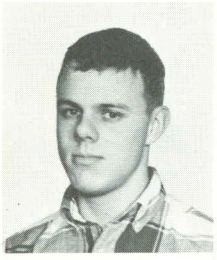

Tom Beck

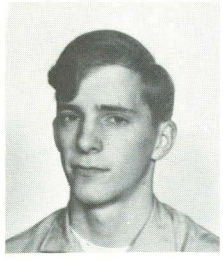

Richard Beckman


Jim Blake

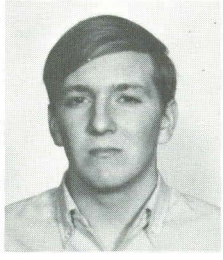

Larry Blem

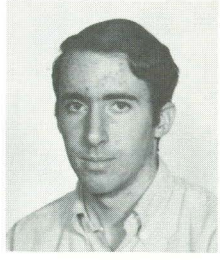

Stan Bones

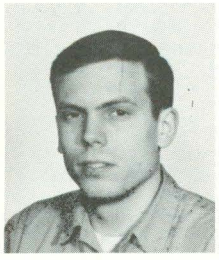

Herschel Boydston

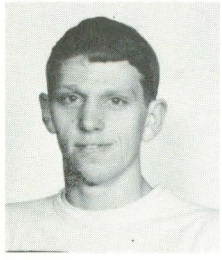

Dennis Brandt

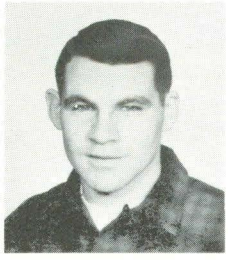

Mike Brown

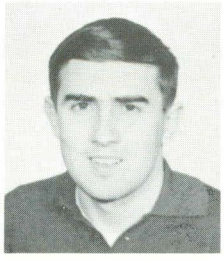

John Carrol

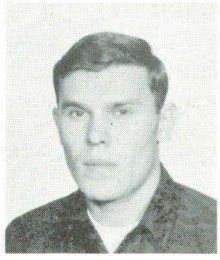

Craig Combs

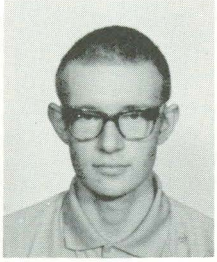

Doug Cronlund

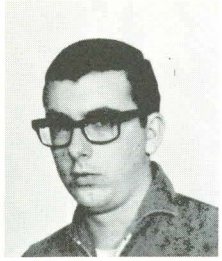

Richard Croston

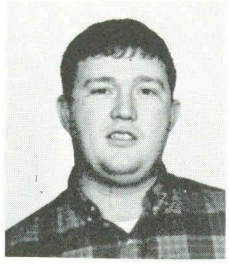

Fred Crowe


William Davidson

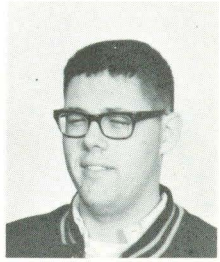

Howard Dean

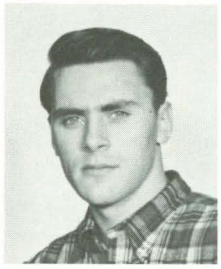

Larry Dhooghe


David Erwin

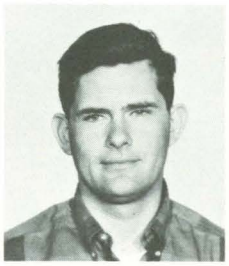

Ken Faulk

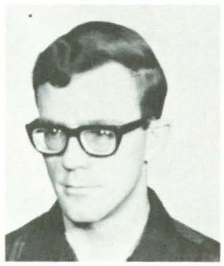

Paul Freeman

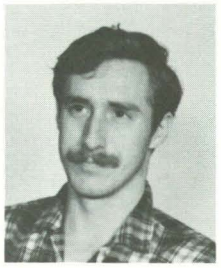

Jerry Gardenhire

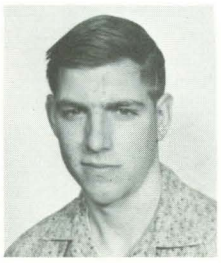

John Geyer

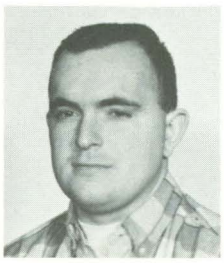

Terry Graham

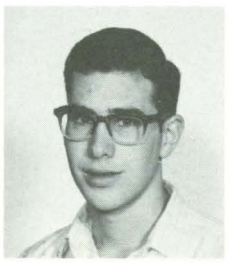

Roger Gray

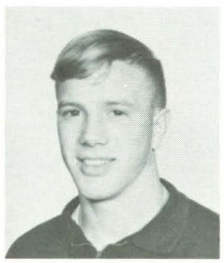

Dan Green

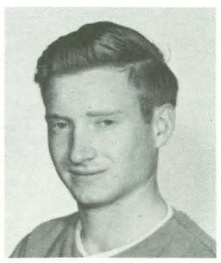

John Greven

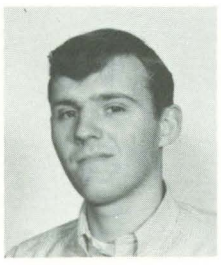

Alfred Hainisch

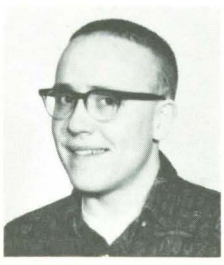

Ed Hans

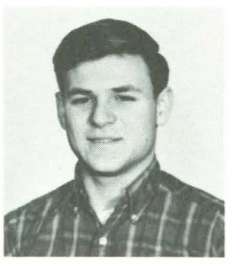

Rylonds Hardman

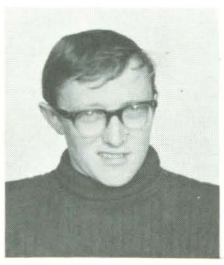

Dave Harmon

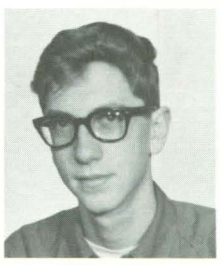

Terry Hasset

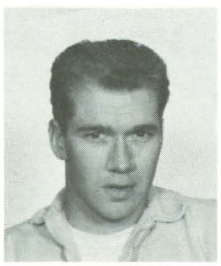

Robert Hawley

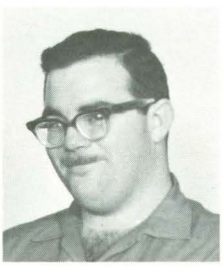

John Hortenstine

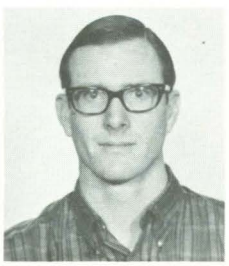

Richard Irish

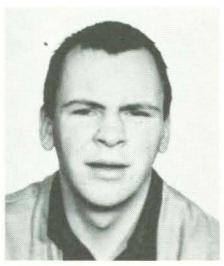

Dwight Makinson

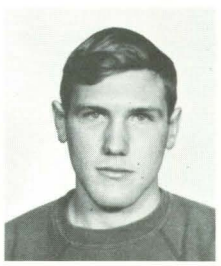

Alan Maul

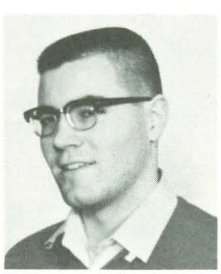

Forest Maywell

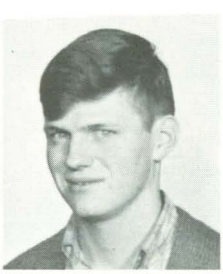

Scott McCasland

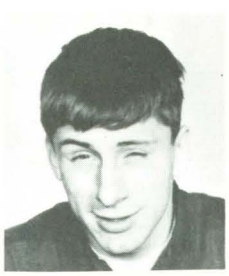

Harry McIntire

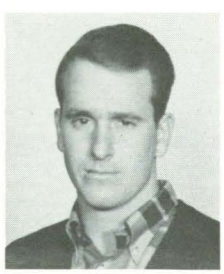

Warren Niemi

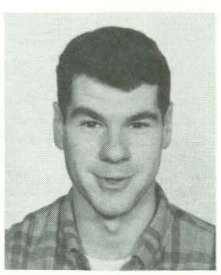

Douglas Nye

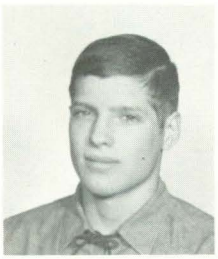

John Parsons


Chuck Payne

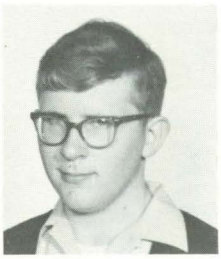

Steve Pederson


Jerry Richardson

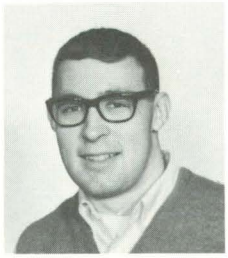

Ron Sherman



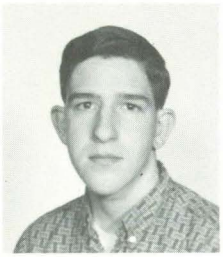
Charles Smith



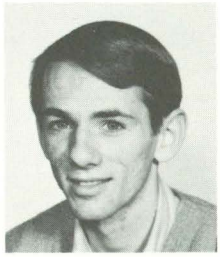
James Sorber



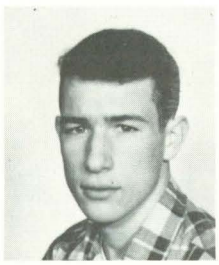
Bond Starker



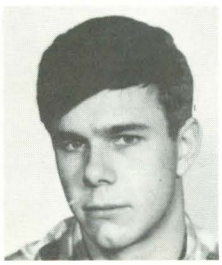
Ed Stuart



Ernie Wilson

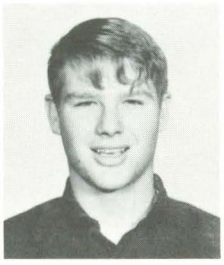


Carey Weatherly

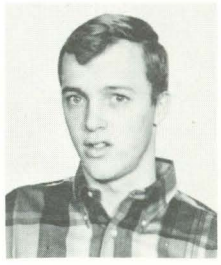


Joe Wiederhold

James Williams



Virgil Witcher



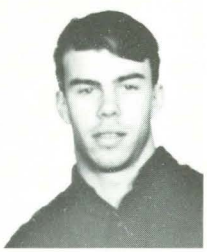
Dave Wolfe

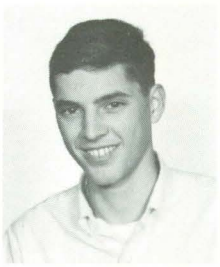
FRESHMEN

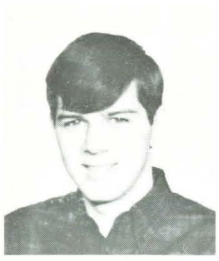

John Acton

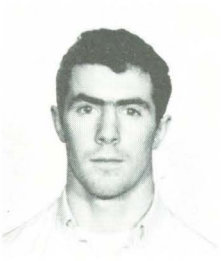

Jerry Barnes

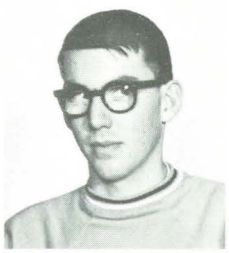

Danny Baxter


Bergh Bechen

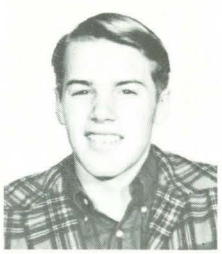

Jeff Blackwood

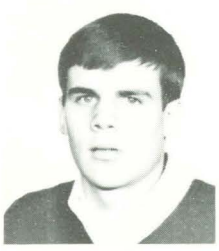

Larry Blair

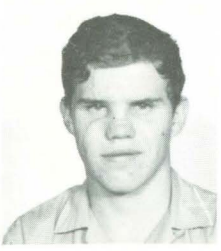

Michael Bode

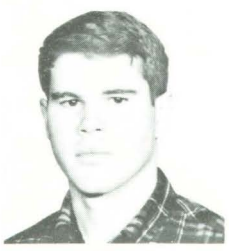

Richard Burnham

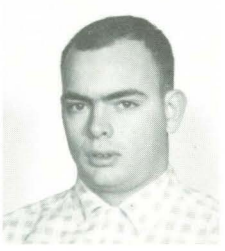

Ken Caires

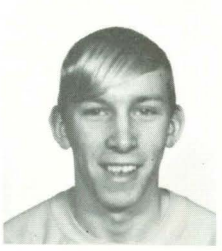

Phil Cannon


Ted Carlin

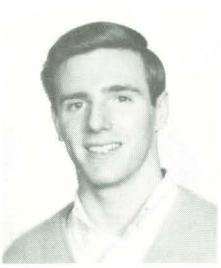

Dale Clark

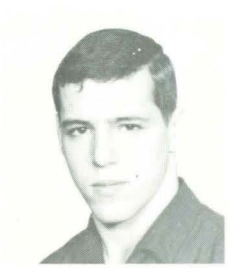

Ted Clausen


Steve Cripps

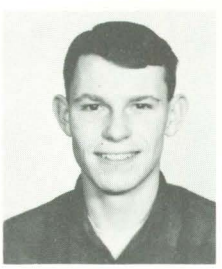

Darryl Dickerson


Gary Earnet


Philip Elting

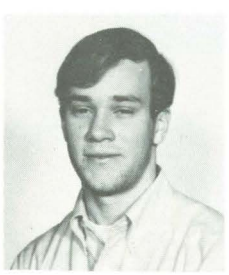

Alvin Ewing

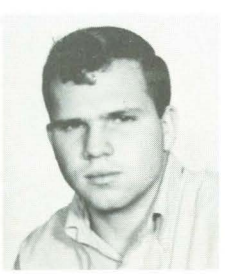

John Garland

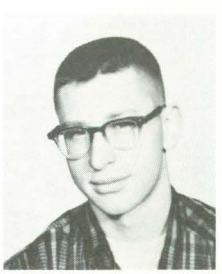

Rick Gibson

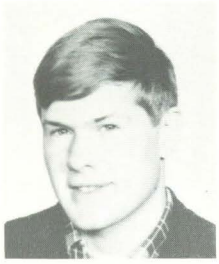

Richard Griffey


Herb Hamerlynck

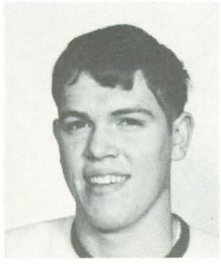

Bill Hanshild


Rick Holiday

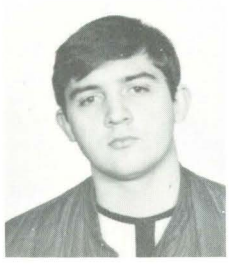

Roger Imhoff



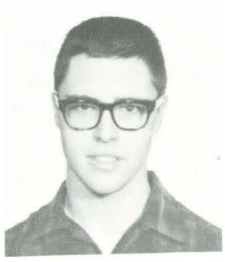
Jerry Jacobson



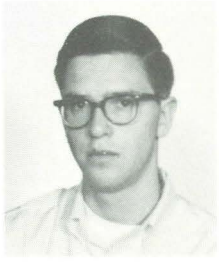
Jim James



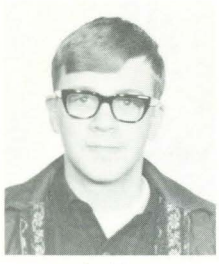
Philip March



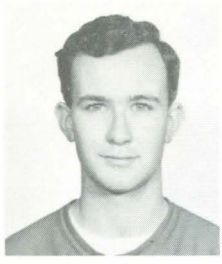
Mike Margerum



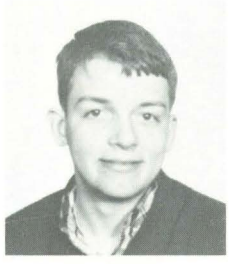
Wayne Mathiasen



Dale Martin

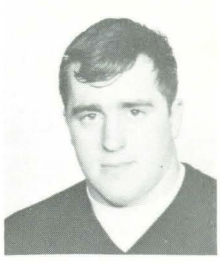


Greg Meese

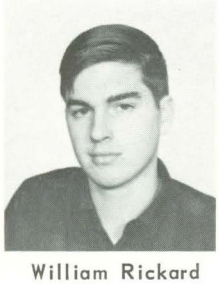


James Mitchem

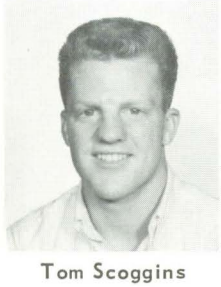
Jim Newell



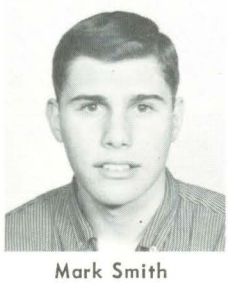
Steven Richards



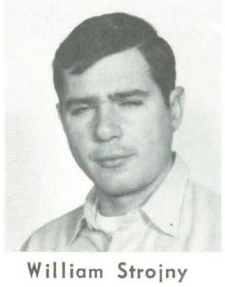
William Rickard



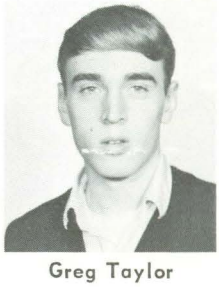
Tom Scoggins



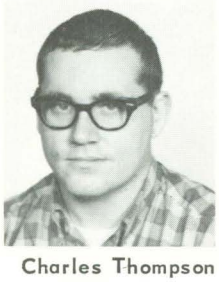
Mark Smith



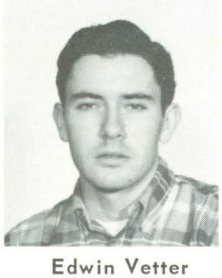
William Strojny



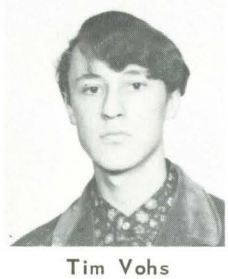
Greg Taylor



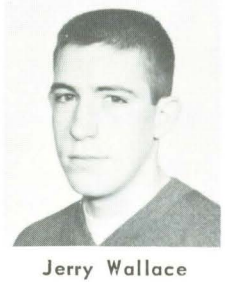
Charles Thompson



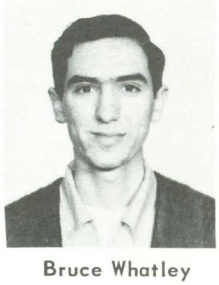
Edwin Vetter



Tim Vohs

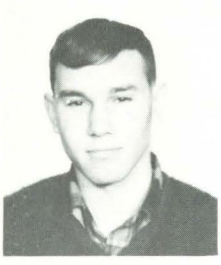


Jerry Wallace

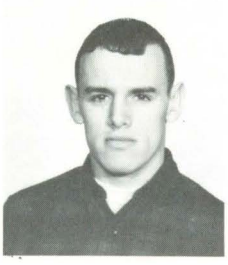


Bruce Whatley

Rob Whittier



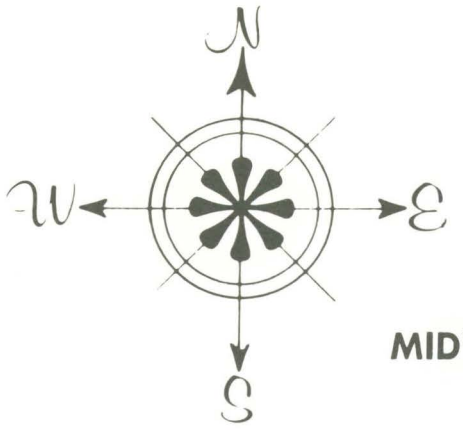
Stan Wilkinson



Jim Woolsey

Bob Wyffels

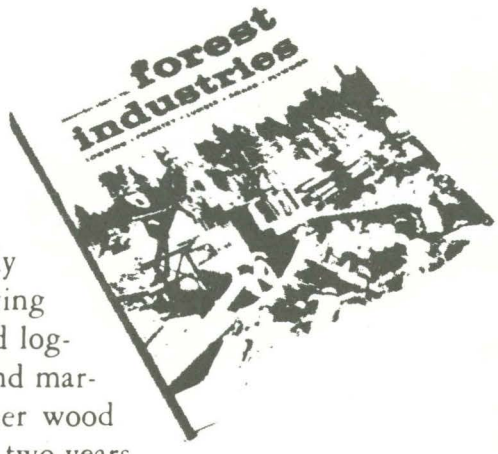
George Wynn



wherever you go
in the
forest industry

WEST • SOUTH • NORTHEAST
MIDWEST • SOUTHWEST • CANADA
LATIN AMERICA • OVERSEAS

. . . you'll find
forestry and industry
leaders reading . . . . .



forest industries is the only truly national and international journal serving the complete industry from the growing and logging of trees, through the manufacturing and marketing of lumber, plywood, board and other wood products. Subscription rates: one year, $5—two years, $8—three years, $10.

forest industries

Serving: **LOGGING • FORESTRY • LUMBER • PLYWOOD • BOARD**

MILLER FREEMAN PUBLICATIONS

Circulation Department: 500 Howard St., San Francisco, Calif. 94105

the world's leading publishers serving the forest industries • Publishers also of:
PULP & PAPER • PULP & PAPER INTERNATIONAL • POST'S PULP & PAPER DIRECTORY • PACIFIC LOGGER AND LUMBERMAN • WORLD WOOD • DIRECTORY OF THE FOREST PRODUCTS INDUSTRY • THE PLYWOOD DIRECTORY

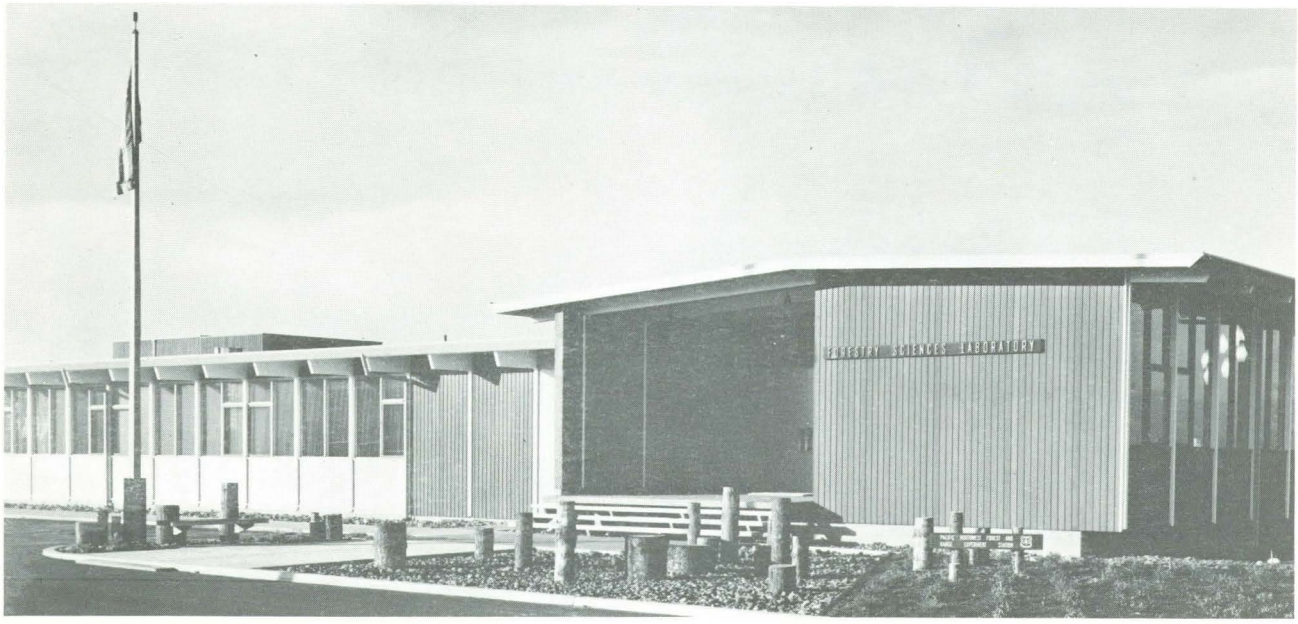
San Francisco • Portland • Chicago • New York • Seattle • Ruston, La.
Fort Worth • Long Beach, Calif. • Vancouver, B.C. • London • Brussels

OUR ADVERTISERS . . .

. . . have made this publication possible.
We thank them for their cooperation.
Patronize them whenever possible.

Bigley & Feiss Foresters, Inc.
Bohemia Lumber Company
Broderick & Bascom Rope Company
Brooks-Scanlon, Inc.
Calder's
Cole, Clark, and Cunningham
First National Bank
Forestry Suppliers, Inc.
Gene Hansen Life Insurance
Georgia-Pacific
H.G. Chickering, Jr. & Associates
Irvington Machine Works, Inc.
J.L. Darling Corporation
John Deere Company
Keuffel & Esser Company
Kings Road Building Supply
Larson Lumber Company
Mater Machine Works
Medford Corporation
Miller Freeman Publications
Nelson Paint Company
Robert Dollar
Rosboro Lumber Company
Santiam Lumber Company
Sedlack's
Smith-Berger Manufacturing Corporation
The Ben Meadows Company
The Skookum Company, Inc.
U.S. Plywood Corporation
Western Fire Equipment Company
White's Shoe Shop
Willamette Valley Lumber Company
Young Corporation

FOREST SCIENCES LAB



In 1962 the U.S. Department of Agriculture dedicated the Forest Sciences Laboratory as a major center for forest research. This facility is administered by the U.S. Forest Service and features the finest in laboratory equipment and personnel.

In the past the laboratory has employed several graduate from the OSU school of forestry. Often these students do research for the laboratory while earning their graduate degree. The laboratory also provides a vast pool of information upon which the Oregon State forestry professors may draw for class presentations. Industry as well as many land management organizations make use of the Forest Sciences Laboratory's findings.

Currently the staff is conducting its major experiments in the areas of insects and diseases detrimental to northwestern forests. The majority of the staff is employed in research in these two fields. Although these studies are major projects, the staff also is presently engaged in experiments in watershed management, genetic studies, and silvicultural practices.

This year a fascinating new experiment is being conducted at the laboratory concerning graft incompatability in Douglas-fir. For many years the Douglas-fir seed orchardists have been grafting this species with varying results. Although many of the grafts appear successful and sometimes remain so for many years, some suddenly swell and die. This results in a waste of time and money to seed growers. The present study will attempt to discover the cause of this phenomenon.

Another interesting project concerns the varying effects of logging on a watershed. For a period of seven years a watershed was observed, and readings of runoff were taken. Then the area was logged, and comparisons between the two drainages were made in relation to their condition prior to logging. The two logging methods used, sky line crane and the conventional high lead system, were employed on two adjacent parallel drainages. A third drainage was left unlogged as a control unit.

At first it was expected that because the high lead system required more roads, there would be a greater amount of runoff; this was found to be a misconception. The logged areas, while not increasing the spring runoff, substantially increased the amount of water released in the early summer months. Because this experiment was conducted near Eugene, it is especially applicable to forests in the Northwest.

Along with increasing general knowledge of forestry by experiments such as these, the Forest Sciences Laboratory also contributes to the solution of specific regional problems. The cooperation of the laboratory with private industry, state and federal government, and the local community itself has greatly stimulated forestry techniques and knowledge.

ative Forestry research under the McIntire-Stennis Act. Amounts received by the Laboratory now exceed $100,000 a year. Research in both forest management and forest products has benefitted and improvements in graduate training have resulted.

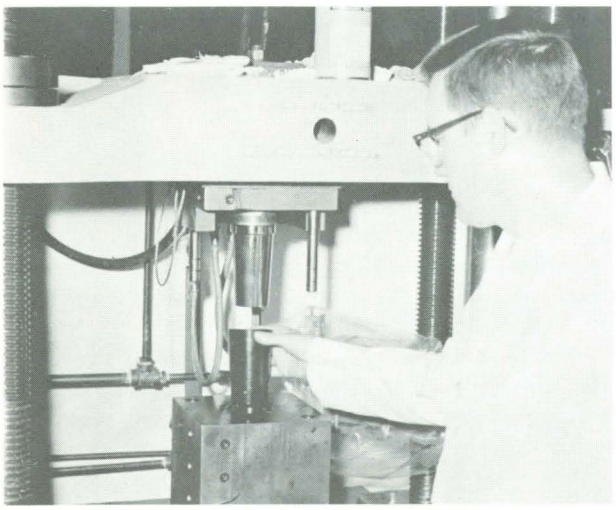
The Oregon Forest Research Laboratory offers a chance for forestry students to supplement their education and earn money while in school. Several students in this work-study program find the atmosphere at the research laboratory conducive to learning.

Larry Knowles is an O.S.U. forestry student who is currently working at the laboratory. One of the projects that Larry is familiar with is that of bark utilization. In an effort to find a use for this vast waste product, bark from various tree species was ground up and molded into the form of the typical drinking glass. The main variables involved are the species, moisture content of the bark, and the resin content of the "glass". The sample glasses were tested for breaking strength, appearance, gloss, and flow characteristics of the bark fines. The results of these tests have been slightly favorable but difficulties in the manufacture of these cups have to be worked out before they can be produced economically.

Larry is also involved with a long term project which involves the testing of industrial exterior phenolic particle boards that have been exposed to different durations of weathering. Initially the boards were tested for strength properties, density, and paint adhesion qualities. These tests have been conducted after six, twelve, and twenty-four month exposures. Still to be evaluated are the wood qualities after five and ten year exposures to weathering. Wood technologists hope to generally define the problems involved with prolonged weathering of phenolic particle board.

Martin Bailey, junior in forest management, also works at the laboratory. He is working on a project in the management of immature Douglas-fir stands. This work is being done in a 30-year old stand in the Black Rock Experimental Forest northwest of Corvallis. These are 62 plots ranging from ¼ to 1 acre in size in which the trees are producing various levels of basal area. During the summer Martin works at the forest collecting data on stand improvement procedures. During the week while in school Martin works at the laboratory compiling data which has been collected in the field. Martin is another of the forestry students from the present, past, and future who knows he has gained considerable experience in the techniques used and the problems encountered by the research forester.

FOREST RESEARCH LABORATORY



Bill Lehmann, wood technologist, takes a glass out of a mold. The glass is made of Douglas-fir bark and resins compressed together.

Expansion of laboratory facilities, additions to the scientific staff, and new research activities are recent developments at the Forest Research Laboratory. A grant of $110,000 from the National Science Foundation, more than matched by State funds, ensures construction of a new wing for forest scientists with present space released for studies in forest products.

Plans are expected to be ready for bids so building can start immediately. By next fall, the new two-story addition should provide enlarged space for increased research in reforestation and young-growth management, plant physiology, forest genetics and tree improvement, forest ecology, and control of animal damage. There will be a new laboratory for use of radio isotopes and a unique combination of offices and laboratory for graduate students.

Progress in forest genetics has reached a point where progeny from selected crosses are ready for out-planting and stocks from nursery selection studies are ready for use in the Laboratory's planned tree-improvement program. Plans include further development of the former Oregon Forest Nursery north of Corvallis as a Northwest Forest Genetics Center.

The vast acreage in the Oxbow Ridge Burn southwest of Eugene presents a problem in reforestation that requires early solution if the area is to be regenerated as rapidly as possible. Wildlife ecologists, in cooperation with the Bureau of Land Management, are studying effects of the fire on populations of seed-eating mammals. Fate of Naturally and artificially disseminated seeds is being studied by tagging them with radio isotopes.

Wood scientists are intensifying efforts to find uses for residues generated at wood processing plants. Bark, in particular, is accumulated in great volumes that are costly to dispose of and add to air pollution when burned. Chemists and wood technologists, in a large-scale program, seek to provide information on components of bark, both physical and chemical, so that this residue may provide useful products. Forest economists are conducting a survey to determine the amount and location of wood and bark residues not now being utilized.

Research in pulp and paper has been re-activated by a new staff member, Dr. Walter J. Bublitz. The program in this area is being developed around high-yield Kraft pulping, increasing the strength of corrugating medium made from Douglas-fir pulp, and investigating pulp made of thinnings from young timber.

In cooperation with industry associations, residential walls constructed with utility-grade studs and faced with stucco were tested to destruction by loads that simulated wind forces. Results show that the lowest strength was 4½ times that of the design load. Full-scale tests of floor systems have proved that utility-grade joists provide strength in excess of design requirements for various spans. These tests have led to improved design, performance, and use for Oregon's softwood dimension lumber.

New ways of reducing decay in utility poles by pitting one fungus against another are being studied by microbiologist Dr. Jacques Ricard, now on the staff. Funds for the research are provided by the Bonneville Power Administration. Other studies include treatment with gases to arrest the progress of decay and hopefully eliminate the cause. Another new scientist, Dr. Richard Lin, is studying electrical properties of wood.

The total program of research has been given added impetus by an increase in funds for Cooper-

Dr. Paine

The purpose of Dr. Paine's research is to prove that the crown competition factor (a new method of measuring stand density) is independent of site and age. Crown competition is explained in an article by Krajicek, Brinkman, and Gingrich in **Forest Science**, volume 7:35-42: "Crown Competition – A measure of Density." It has been found that the crown competition factor is reasonable independent of site and age for Douglas-fir. The regression line of crown diameter over d.b.h. is not linear for open grown trees as has been the case with other species. Crown competition factor is dependent on both site and age for ponderosa pine stands but the relationship of crown diameter over d.b.h. is linear. This method is a new mensurational tool which would be very useful it it is found to be independent of site and age.

Dr. Michael Newton

Dr. Newton is involved in a project with a two-fold purpose: First, to improve the understanding of relationships between conifer seedlings and associated competition. To develop means of vegetation manipulation that will capitalize on assets of competitors while minimizing their liabilities will be a practical application. Second, to develop various concepts in the use of pesticides that will permit solutions of forestry problems throughout the rotation with minimum hazard and cost.

It has been found that grass influence on seedlings is extreme, particularly in terms of drought. Grass control in plantations is now an operational practice. It has also been found, through studies of herbicide formulation and application, that rates of absorption and translocation are the function of molecular polarity and season. Techniques have been developed for aerial and basal injection of herbicides for selective brush control. Equipment has been devised and formulations have been adapted for injections useful in weedtree control and conifer thinning.

This information has led to several practical developments. Grassy non-stocked areas may now be treated and planted with high expectation of success at a lower cost per live seedling. Trees thus planted grow faster and are less subject to animal browsing and other problems related to small size. Non-stocked brush fields may be converted to productive plantations by selective spray treatments. Concepts of brushfield development may be used to predict how long brush may be allowed to grow without interfering with regeneration; timing of herbicide treatments can be calculated accordingly. It has also been established that labor requirements for pre-commercial thinning may be reduced substantially by use of chemical injections. The application of proper chemicals may be accomplished with safety, and with concurrent insect control and fire hazard reduction.

Dr. Irgens-Moller

Dr. Irgens-Moller is involved in a study that plans to improve the growth rate and survival of Douglas-fir. Large differences among races of Douglar-fir throughout the western United States have been found. Crosses between these races promise a possibility of superior seedlings. These offspring will be used in establishment of seed orchards which will produce hybrids of existing races. Yields may thereby be increased over shorter rotations.

Dr. W.K. Ferrell

Dr. Ferrell is conducting research closely related to that of Dr. Irgens-Moller. The purpose of his research is to determine the physiological differences in drought resistance, photosynthesis, and transpiration in Douglas-fir. He plans to transfer this information to usable form. His findings will provide better guidance in tree breeding, suitable chemicals for inducing transpiration control, and better selection procedures in collecting proper Douglas-fir seed. Differences in drought resistance are important in guiding seed collection. For example, differences between north and south slope seed is very significant. Differences in photosynthetic behavior indicate that Douglas-fir seedlings from inland areas have more ability to withstand high-intensity light than coastal seedlings. These differences form a basis for assuming that these characteristics may be transmitted genetically to improve seedling performance.

Mike Newton displays a device that he has developed for injecting herbicides into unwanted trees.

FOREST RESEARCH AT OSU

To find out what our professors did besides correct papers and think of hard test questions, Daniel Robertson circulated questionnaires to all of the teaching faculty. The following article summarizes the responses that Dan received.

DR. L. W. GAY

The major objective of Dr. Gay's project is the evaluation of evapotranspiration from plant communities under different climatic regimes through the application of energy budget techniques. In this technique the input of radiant energy is measured, and then the dissipation of energy by convection into the air, conduction in the soil, and evaporation of water is estimated by appropriate measurements of air and soil temperature and wind speed. Field studies have not yet begun; the work to date has been primarily concerned with the development of instrumentation and a data aquisition system. However, work elsewhere has confirmed the accuracy of this method and has shown its advantages for estimating evapotranspiration over short periods of a few days or less. The results of evapotranspiration estimates can be directly applied to studies of water yield from large watersheds. The studies will also yield further information on the response of plants to fluctuations in the environment. The growth of plant communities can also be estimated through energy budget studies.

Similar towers will be constructed in "Mac" Forest in conjunction with Dr. Gay's work.

Dr. R.F. Keniston

Dr. Keniston is involved in a joint research project between the School of Forestry and the Department of Range Management within the School of Agriculture. Dr. D.W. Hedrick, professor of range management, is the project leader. The purpose of the project is to obtain physical and economic data on the best use of marginal foothill lands in both western and eastern Oregon, or both.

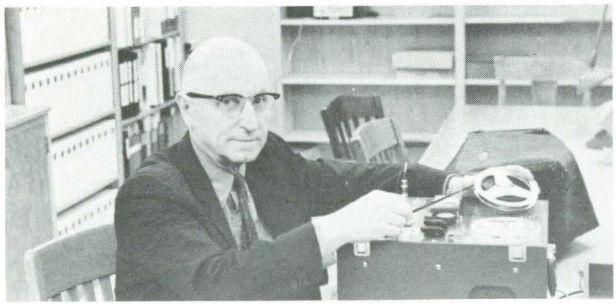
It has been found that in the Corvallis area, the white-oak areas on Site III or better land can be converted economically to Douglas-fir merely by underplanting. In the Willamette Valley hill lands near Corvallis, carefully-controlled short-term spring grazing by sheep in Douglas-fir plantations can significantly increase the rate of growth of the tree seedlings by elimination of some of the herbaceous competition for soil moisture. This interim grazing can be for only a few years, before the tree canopy closes. Good management of animals and good management of forage is essential. The grand fir forest type of the Blue Mountains was believed to have no grazing possibilities. However, it has been demonstrated to be potentially highly productive of forage for cattle as well as a timber growing area.

With additional findings on inter-relationships between timber, trees, game, rodents, and domestic livestock, wiser land-use decisions can be made. Where feasible and beneficial, better use of resources can be made through carefully-planned joint use. Ecological and economic inter-relationships and limitations will be better understood, while more facts will be known on which to base land-use and management decisions.

James T. Krygier and Dr. G.W. Brown

Dr. Brown and Jim Krygier are involved in a research project being conducted on three coast range watersheds. This is a joint project between the Department of Fisheries within the School of Agriculture and the School of Forestry, with Krygier in charge of the forestry area. The purpose of this project is to evaluate the effect of logging and road building upon the streamflow, sediment, and water temperature of each watershed. This information will have practical application in several respects. It will indicate the modifications necessary in logging operations conducted near salmon spawning areas. It will aid land managers in manipulation of streamside vegetation to control water temperature regimes. Dr. Brown is emphasizing the water quality aspects of the study. Prof. Krygier is also involved in comparing water budgets of coniferous and hardwood stands.

SELF-LEARNING CENTER



Dr. Robert R. Reichart

Dr. Reichart is the director of the Forestry Self-Learning Center. His background as well as the excellent job he is doing exemplify his qualifications. Dr. Reichart received a degree in business administration in 1917 from Oregon Agricultural College. From this same school then known as Oregon State College, he earned a master's degree in Education. Dr. Reichart went on to get a Ph.D. in Education from the University of Oregon in 1941. He has served in various capacities with several publishers in New York, among which are Harper, Century, A.A. Knopf. Dr. Reichart has been on the staff of the School of Education for 35 years before he joined the School of Forestry staff in 1963. Dr. Reichart says his main interests lie in the area of communication and that he is very much interested in his job at the Self-Learning Center. Presently he is helping Pacific University get a similar program started.

The Forestry Self-Learning Center (supported by a grant from the Louis W. and Maud Hill Family Foundation) in the basement of the Forestry Building is the only one of its kind in any forestry school in the country. It represents a new movement in education generally, although the interest in such independent study facilities is growing rapidly.

The fundamental purpose of the Self-Learning Center is to utilize modern communication devices to aid and supplement present educational methods. The Center uses a variety of such devices, but concentrates mostly on the use of tape recorders and slide projectors as aids to learning.

Lectures by an instructor or a visiting specialist, oral explanations made in conversation, in conferences with students, or laboratory exercises may be recorded. Illustrated material may be reproduced on slides. Regardless of the source of the material, once the Center has the tape, the pictures and the script, a student may use them as often as he cares to look and listen.

The advantages of being able to reproduce such materials are immediately evident. If a student wants to hear a talk or a part of a talk over again because he didn't understand all of it for the first time, he has the opportunity in the Self-Learning Center. If for any reason he missed the talk altogether, he still has a chance to hear it. If some pictures were presented in class and the student wants – and needs – to study those pictures in detail, he has the opportunity in the Self-Learning Center. Even if the talk was originally given last year, or the year before, or the year before that he can still hear it even though he was not in school when the talk was first given.

The great problem faced by the Center has been to obtain satisfactory teaching materials. Such materials cannot be purchased; they must be produced. They must also be good teaching materials or, obviously students will not use them. Furthermore, these materials must represent a wide range of needs and interests. A student having difficulty in physics, for instance, will need explanations of fundamental concepts. A brilliant student, on the other hand, will want supplementary materials on a different level.

Information in the Center is not limited to forestry subjects, but includes many allied fields. The Center has tapes in geology, botany, entomology, and mathematics. The collection is constantly growing.

The Center is steadily improving its work and enlarging its functions. It operates audio-visual services for the school and aids the faculty in producing teaching materials. This year, when several instructors decided to have students make taped or tape-slide reports, the Center helped students by making slides, copying pictures, and even by instructing them in the techniques of making good recordings. Recently the Center has been experimenting with embedding insects and botanical specimens in plastic as learning aids.

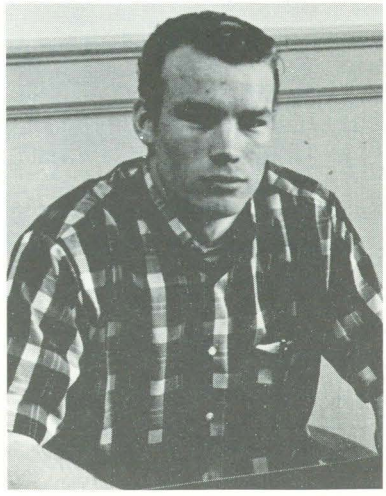
The Forestry Self-Learning Center is located in the basement of the Forestry Building. It is open all day, and all forestry students are welcome to use its facilities at any time. A list of available presentations for study is published each term. Ask for it. It may contain items that will be of great help to you.

Student using facilities in S.L.C.

ANNUAL CRUISE STAFF

Harold Snider, Layout Manager

Dan Applebaker, Advertising & Circulation

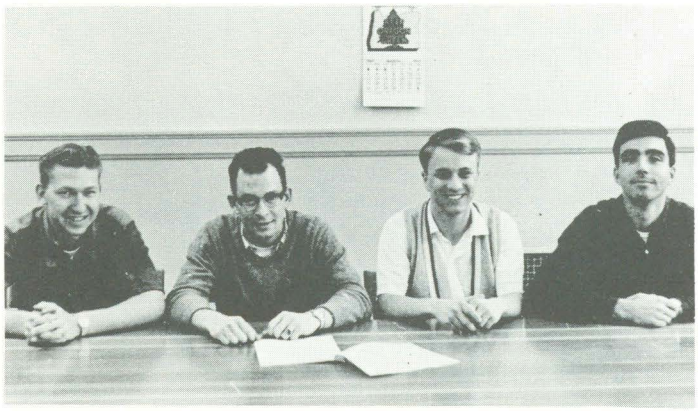


Clay Dickerson, Business Manager

Roger Lovitt, Copy Editor

Ed Welch, Editor

John Monfore, Copy Editor



Jim Jess, Norm Foeller, Jim Wick, Dan Robertson, Writers

Scott McCasland, Mark Miller, Photographers

Not pictured, **John Geyer, Dave Cagley**

AWARDS

SCHOOL OF FORESTY AWARDS

Max D. Tucker Memorial
Everett Mathew Hansen
John Henry Hortenstine
Craig M. Nicholson

Durward F. Slater Memorial Scholarship
Kimberley Iles

John R. Snellstrom Memorial Scholarship
James Edward Nielsen

Crown Zellerbach Foundation
Thomas Lowell Prevette
Michael Lawrence Stewart

Robert Aufderheide Memorial Scholarship
Kenneth Jerome St. Clair

Blodgett Tract Fund
Richard Keith Spring

W.R. Randall Memorial Scholarship
Dale Raymond Stennett

Floyd Hart Memorial Foundation
John William Warning

Portland Wholesale Lumberman's Association
Ernest Ford Wilson

Autzen Foundation
Jerry Alan Boucock

Gordon & Priscilla Duncan Award
Dennis Leland Brandt

Margaret O. Starker Scholarship
David Lowell Cagley

Cole, Clark & Cunningham Inc.
William Lynn Denny

Rayonier Foundation
Charles J. Dominick

Albert H. Powers Memorial Scholarship
Michael B. Farrell

South Santiam Educational & Research Project
Tod Robert Files
Herbert Leon Hammond III
Lenard LeRoy Morin
John Lyman Smith
Edward Calvin Welch
James William Wessell
Charles Eugene Whitten

SPRING THAW AWARDS

Paul M. Dunn Senior Award
Jim Booher

Eskew Memorial Award
Douglas C. Coyle

Kelley Axe Award
Dennis Dykstra

Xi Sigma Pi Plaque
Rusty Whitten

HI LEAD

Dick Knudson and Dave Hann, Associate Editors

The Hi-Lead is the School of Forestry newspaper. It is published once a month when time permits and enough articles can be prepared. The goal of the Hi-Lead is to be the common voice for the entire School of Forestry including the Dean, the faculty, and the student body. This goal has been pursued through new article series such as "The Dean Speaks" by Dean Stoltenberg, "My Summer Experiences" by forestry students, "Cull Deductions" by the Forestry Club President, and an editorial column. Also enhancing the value of the Hi-Lead have been many individual articles by forestry students. While the goal of the paper has not been entirely reached, we believe that the Hi-Lead will continue to move closer to the objective.

Efforts of the following people helped make the Hi-Lead a success this year: David Hann and Richard Knudson, associate editors; Joe Brown, cartoonist; Arlan Cummings, right-hand-man; Clara Homyer; "Mac": McCulloch; Karen Rambo, typist; Dan Robinson, advisor; John L. Smith; and all the students and faculty who wrote articles.

XI SIGMA PI

(First) Rick Symmons, John Smith, Herb Hammond, John Lemos; **(Second)** Jack O'Neil, Dale Stennett, Bill Denney, Craig Nicholson; **(Third)** Don Demars, Dave Worden, Tom Greathouse, Jim Guistina **(Fourth)** Dennis Pope, Todd Files, Steve Fletcher, Mike Stewart; **(Fifth)** Jim Nielsen, Bill Wessel, Everett Hansen, Steve Hildreth; **(Sixth)** Ron Stewart, Bill Groman, John Shoberg, John Warning, Charles Whitten.

Xi Sigma Pi, a forestry honorary fraternity, was founded at the University of Washington on Novem-24, 1908. The fraternity existed as a local honor society at the University of Washington until 1915 when a new constitution was adopted which opened a wider field. An executive chapter was formed as the governing body of the fraternity and the original chapter at the University of Washington was designated as Alpha Chapter. Zeta Chapter was established here at Oregon State University in 1921.

The objectives of Xi Sigma Pi are to secure and maintain a high standard of scholarship in forestry education, to work for the upbuilding of the forestry profession, and to promote fraternal relations among foresters.

The intention of Xi Sigma Pi is to honor the student who excels scholastically and who has a personality that would tend to make him successful in forestry work. The fraternity aims at stimulating scholarship in forestry and at bringing together in good fellowship students who have shown exceptional ability. Here at Oregon State, initiation is held fall and spring terms, with a banquet following the spring initiation.

Officers for the 1966-67 school year are: Charles E. Whitten, Forester; Dale R. Stennett, Associate Forester; William Denney, Secretary-Fiscal Agent; and James Giustina, Ranger. Faculty advisor is Jim Krygier.

AWFC CONCLAVE 1966

Last April, five hardy foresters, Al Rockwood, Bill Sager, John Shoberg, Rex Baumback, and Dale Stennett departed for Moscow, Idaho for the 15th annual Conclave of the Association of Western Forestry Clubs. The Associated Foresters of the University of Idaho were the hosts for the four day event.

Following our registration at the College of Forestry on a Wednesday afternoon, we checked into the Moscow Hotel. We were later treated to the first meeting of the convention and a get-acquainted party. The theme for the Conclave was "Forestry Education" so our discussions and activities the following day were centered around this topic. On Friday we spent the better part of the day touring the large integrated mill at Lewiston, Idaho owned by Potlatch Forests, Incorporated. That night we attended a banquet and dance which was combined with the annual U of I "Forestry Week".

Saturday, the last day, we participated in the traditional contests. John Shoberg brought home a third place in single bucking but that's all we could vouch for. The Conclave ended with a beanfeed and the election of the OSU Forestry Club as the 1967 Conclave host, and Dale Stennett as A.W.F.C. President.

Dale Stennett
1965-66 A.W.F.C. Vice-pres.

CONIFERS

(standing) Nancy Schmidt, Christy Woods, Barbara Holt, Millie Robinson, Karen Russell, Sandi Hanson, Kathi Schie, Jacqui Niedermeyer, Rose Krammes, Kathy O'Dell
(Sitting) Karen Hardman, Sandy Reagan, Barbara Hicks, Candy Hansen, Verna Wright

This year for Conifers, the forestry wives club at O.S.U., began with a large turnout for a demonstration by the O&N Fabric shop on making sweaters, bathing suits, and on sewing on knit materials. The big event for fall term was the Christmas Dance put on by the Conifers. Everyone had a good time and there were more people at the dance than the Forestry Club had last year for their dance. (Foresters, you'd better get on the ball if you don't want the the Conifers to out do you again next year.)

Winter term Conifers toured R. Veal and Son Furniture factory in Albany. They learned how the green giants their husbands study (trees) are transformed into furniture. On February 25 Conifers decorated the tables for the Fernhoppers Banquet with daffodils, quince, pussy willows, camelias, and greenery.

Spring term the Conifers and their husbands were privileged to see slides on life in Alaska shown by Mr. and Mrs. Bill Parke. Conifers helped the Forestry Club by making coffee and punch and serving the food at the Conclave; and by planning and preparing the food for the Spring Thaw.

P H T AWARDS

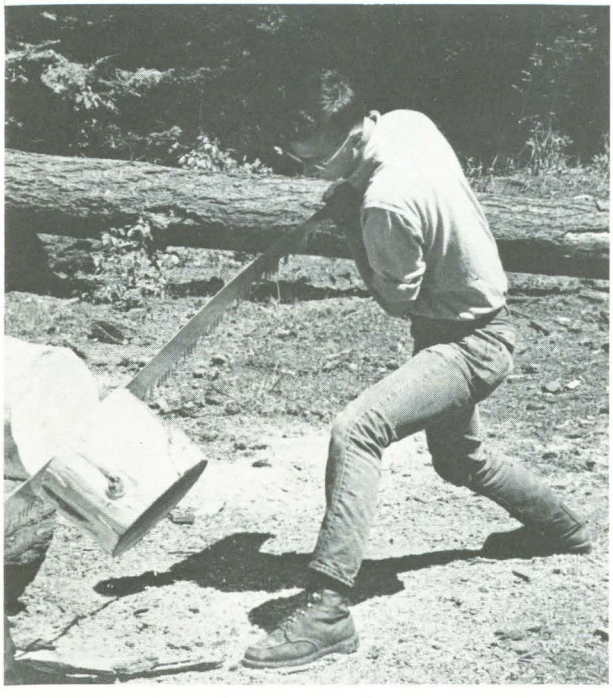
(Pushing Hubby Through)

Barbara a. Hinds
Elaine A. Fields
Donna Rae Ekenberg
Vera Shoberg
Janice G. Krieger
Sharon E. Enger
Terry Thomas
Judy Dickerson

SPRING THAW 1967

Boy, that feels good.

Months before the thawing of the ice on Cronemiller Lake, fernhoppers began sharpening their axes and toning their muscles in preparation for the famed Spring Thaw. And finally it came.



One more stroke

The weekend of festivities was kicked off by the traditional tug-of-war between the foresters and the Fin and Antler Club with girls from the Home Economics Club on both sides. As has been the case in the past, the foresters remained dry. Credit for the unified effort put forth by the fernhoppers should go to Clyde Anderson, coach.

The setting for the contest the following day was Cronemiller Lake which by this time was just beginning to thaw. The air was filled with "twangs" from pinched saws, "thuds" from axes hitting the mark, and flying chips from well placed chops with the axe. When all the chips and sawdust had settled to the ground, it was plain to see that Bill Sager had won the axe throw; Charlie Travaglione had chopped through the logs the fastest; John Shoberg and Dwight Fickes was the best double buck team; and the winning single buck time was also turned in by John Shoberg.

Next the attention centered at the lake itself. All of the participating fernhoppers got wet, even Jim Simonet and Marv Matheny who won the birling contest and boom-run respectively.

With the setting sun the hungry participants and spectators retired to the club cabin. Inside the fire was blazing and the food was ready to eat. Following the dinner awards were presented for each event. This year Bull of the Woods award went to John Shoberg. Thus the day came to an end, and not one bit of ice remained in Cronemiller Lake. The Thaw was a success.

BLUE OX BALL

Frauline Kay and Escort.

In an unprecedented attempt to save some of the club's funds and to make use of the cabin, last year's Blue Ox Ball was moved to Mac Forest. This was a radical departure from the traditional campus event and proved quite successful.

The cabin was decorated in early Douglas-fir and Tom Hicks handled special lighting effects. Music was provided by one of the more illustrious local disc jockeys and woods clothes prevailed. Highlights of the evening included Ralph Osterling fumbling through the coronation of Kay Bekooy as Forest Fraulein, and Smith, Welch, Snider and company making their moonlight ride to the radio towers. Innovations included Ranger Smith's Dating Service through which no less than five Yogi the Bear applications were handled. And surely no one will forget Fraulein Kay's attempts to behead fern-hoppers with her prized Silver Axe. For an attempt at something different the evening turned into quite a success.

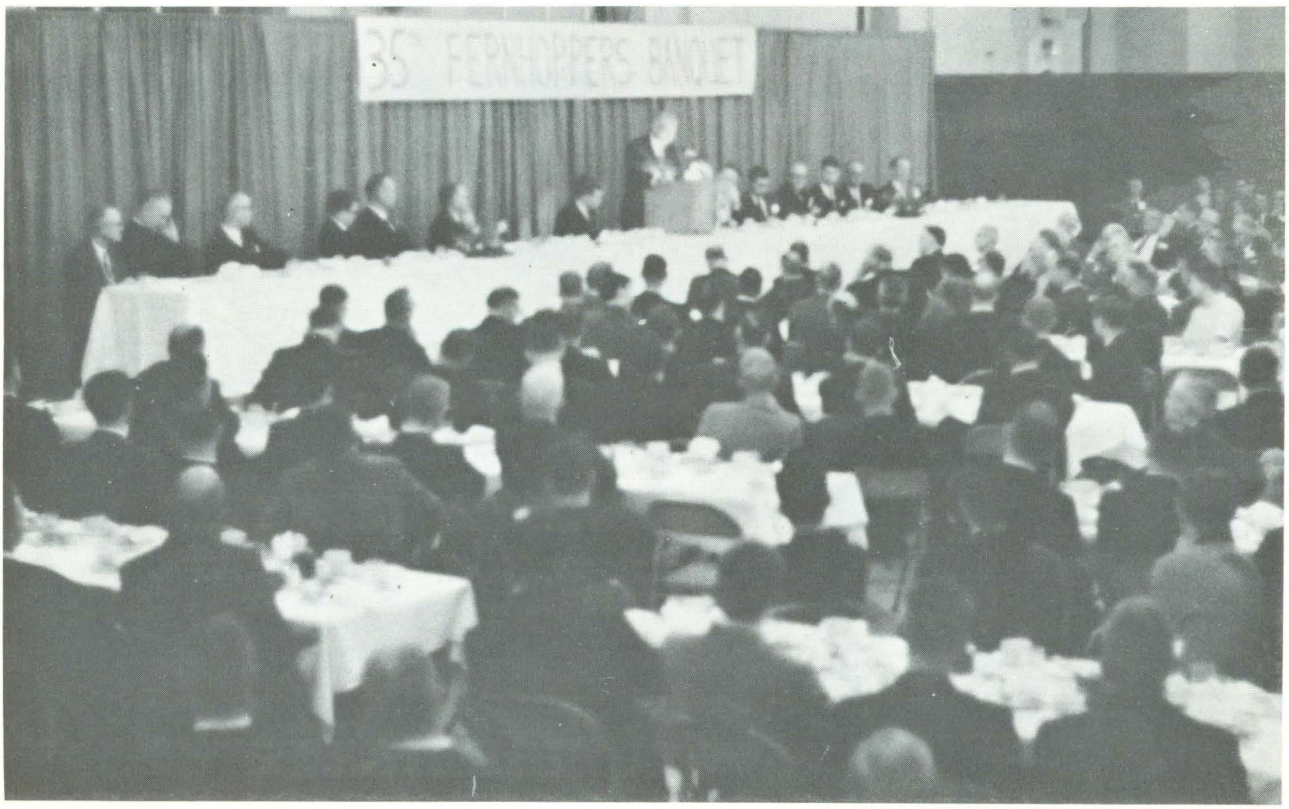
FERNHOPPERS BANQUET, 1967

The 35th Annual Fernhopper Banquet held in conjunction with the OSU School of Forestry was was considered a measurable success. Committee chairmen, picked from among forestry seniors were assisted by Ken McLaren in planning the banquet and program. This year the program was reduced to its essentials: invitations, ticket sales, a tasty meal, student awards, an excellent speaker, and time for alumni and students to chat.

Dale Stennet, AWFC representative, made the arrangements with the Memorial Union Dining Service for a buffet dinner. Elton Thomas, Bill Weston, and the OSU Conifers provided decorations in the form of greeneries from McDonald Forest, and ash trays and place mats from the Keep Oregon Green Association.

The guest speaker was Mr. Bernard Orell who is currently vice president of the Weyerhaeuser Timber Company. Mr. Orell gave an inspiring and challenging talk on the topic "Profit is Everybody's Business", in which he offered a challenge to old and new foresters alike to be concerned with profits as well as natural resources.

While the banquet is sponsored by the OSU Forestry Alumni Association, it would not have been possible without the efforts of the present forestry students. People deserving special mention for an outstanding job are: Craig Nicholson, general chairman; John Smith, forestry club president; Dan Green, Larry Knowles, and Bond Starker for an all-day vigil on ticket sales and alumni registration; Tom Prevette, Evert Challstedt, and Clay Dickerson for the afternoon program; Rusty Whitten for the banquet time schedule; and many others who contributed to make the Fernhopper Banquet a success.



Bernie Orell
"Profit is Everybody's Business"

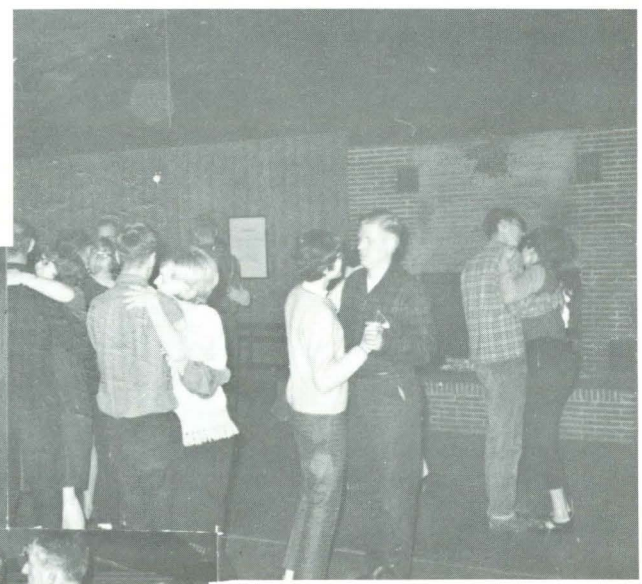
CHRISTMAS DANCE

There is too a Santa Claus.

Once again the Conifers sponsored their annual Christmas Dance, Saturday of dead week, fall term. There was one major change this year, as the dinner portion of the event was deleted. However, this did nothing to discourage participation.

Music was provided by several big name groups, via a stereo system, and the cabin was decorated with evergreens, Christmas ornaments and numerous snowflakes. The focus of attention appeared to be the tremendous fire maintained in the fireplace. Everyone enjoyed a pleasant evening, including many of the staff and their wives.

There were many humorous incidents observed in the process of the evening. Tom Hicks did an admirable job of arranging the soft lighting so essential to a good dance But the topper of the evening had to be the early break up with the subsequent early locking of the gate, much to the chagrin of several couples and the caretaker at the nursery. Thus, the evening provided a welcome chance to relax prior to jumping into the trials of final week.



FORESTRY CLUB

Executive Council
(first) Dale Stennett, Phil Elting, Mike McCormick, Bill Johns, John Smith, Rich Irish
(second) Bob Keniston (advisor), Larry Knowles, Kent Tresidder, Terry Trantow, Pat Donovan, Tom Prevette

This year the Forestry Club was faced with the problem of extensive potential for activity and severe problems of scheduling. The activity started in the summer when all incoming freshman and new students received a letter from the club stressing activity and membership in the club, a move which resulted in increased underclass participation.

Fall term got off to a poor start with the unfortunate cancellation of Mac Forest Day, because of conflicts with the hunting season. However, two club meetings were held during the term. The Head of the State Game Commission's Big Game Department talked on Butchering Big Game, and Don Campbell, from the Siuslaw National Forest, talked on the North Cascade Area. The final event of the term was the Conifer's Christmas Dance at the club cabin, featuring the midnight lock in. (''Thought you had the Key'')

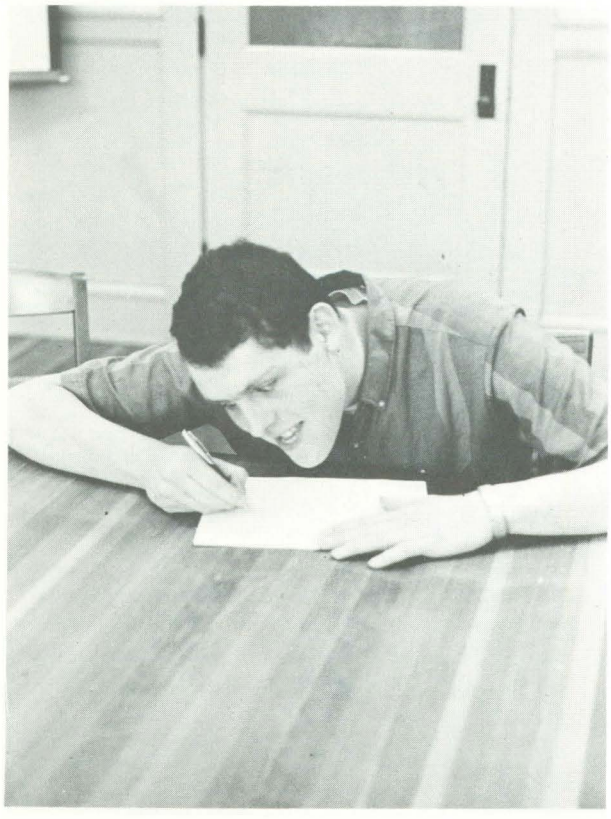
Winter term activities included meetings with Dean Stoltenberg talking on his German experiences and Mr. Buxton, technical advisor for Western Kraft in Albany, who discussed his company's anti-polution program. To complete the social calendar, a hayride and dance were held at the club cabin toward the end of the term. The highlight of winter term was the Fernhopper's Banquet. At that time time scholarships were awarded and Mr. Bernard Orell, Vice President of Weyerhaeuser Company, was featured as the speaker.

Spring term, the traditionally active period, had added interest as the AWFC Conclave was held on campus. The highlights for club members were probably the first get-together, at the Lamplighter, the Dance and the events. During Conclave Week, Mr. H.P. Hornish headed a program concerning the Redwood Park Controversy. The term started with a joint SAF-Student meeting and dinner at the cabin with a panel discussing pollution. Then came out traditional week of events with club elections, fraulein selection, Tug of War with the Fin and Antler Boys, the Blue Ox Ball, and finally the Spring Thaw.

Looking back over the year, many incidents remain prominent. For instance, there was Kay Bekooy, the club fraulein, wearing her mini skirt to the Dean's talk, and celebrating her 21st, at the Conclave kegger. Perhaps the funniest incident was driving down to the Arboretem gate following the Christmas Dance and passing someone going the other way to see if the saddle gate was unlocked. Throughout the year participation at meetings was encouraged by drawings, handled by Kay, for door prizes followed by coffee and doughnuts.

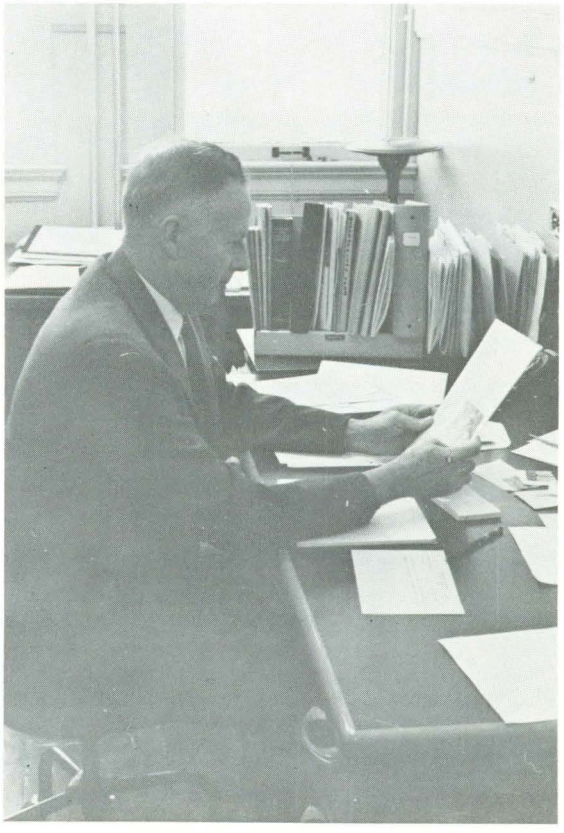
Thus, Forestry Club, 1966-67, was brought to a close. To those who worked and participated, the officers extend their thanks and hope you had an enjoyable and rewarding year. To those that didn't participate, join the fun next year. And to the Faculty, thanks for all your help, support and criticism.

ACTIVITIES



Harold enjoyed laying out the "cruise".

F-341 convict crew



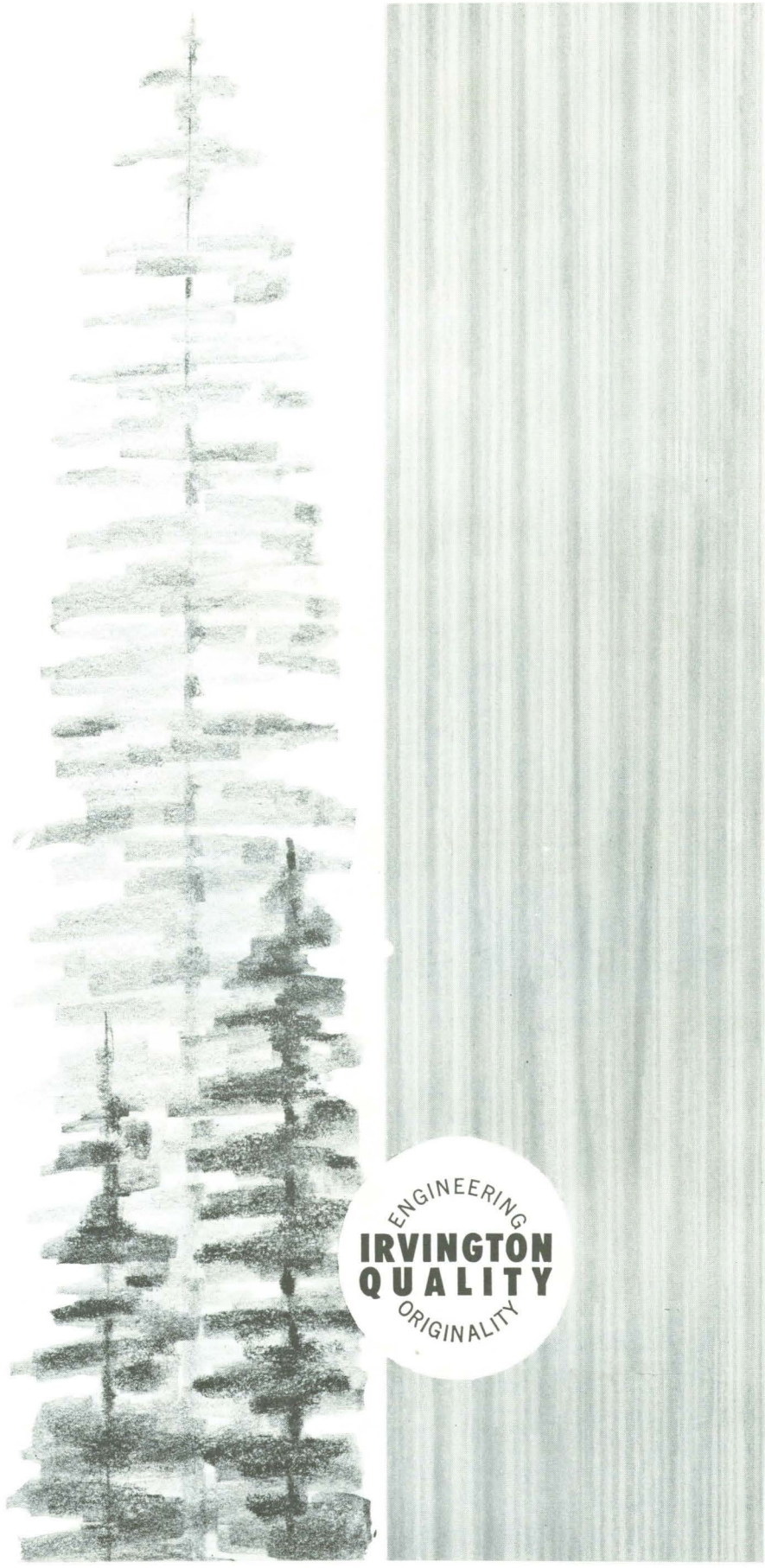
*Qflçfi?! . . . Fernhopper Banquet anyway

Committed in the service of those who use our timber resource wisely to manufacture wood products that enrich our daily life.

Designer of systems and manufacturer of sawmill trimmers, mechanical sorters, stackers, planing mill trimmers, end-printers and waxers, face grade printers, package makers, tally equipment, and memory control systems.

Irvington

P. O. Box 23038 • Portland, Oregon 97223
Telephone: (503) 639-2191



— How do you stop this thing?

MEDFORD CORPORATION

Manufacturers of LUMBER and PLYWOOD

SUGAR PINE

WHITE FIR

PONDEROSA PINE

DOUGLAS FIR

Mixed car shippers of quality products. Annual lumber capacity,
55 million; annual plywood capacity,115 million

Mill and Sales Office: MEDFORD, OREGON

We've made it . . . let's celebrate.

RIGGING AND LOG HANDLING EQUIPMENT FOR ALL LOGGING SYSTEMS

young CORPORATION

SEATTLE, WASHINGTON, U.S.A.

Designers—Manufacturers of a complete line of blocks, fittings, tools

BUTT RIGGING

CHOKER HOOKS

BUTT HOOKS

TRACTOR HOOKS

TONGS

BLOCKS

FAIRLEADS

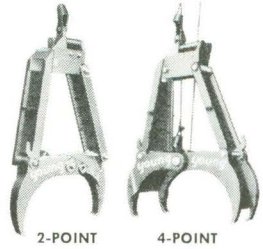
YOUNG TRACTOR ARCH

Skid logs faster— more logs per load

Arch gives log ends a lift to clear obstructions, reduce drag, prevent log damage. Also enables operator to pull logs *to* the tractor or *with* it, from any position within 180°. Reduces wire rope wear.

YOUNG GRAPPLES

2-point grapples for heel boom loading, 3 or 4-point general purpose grapples for crane use



2-POINT 4-POINT

YOUNG EQUIPMENT IS MANUFACTURED IN THE U.S.A. AND CANADA: AVAILABLE THROUGH SHOVEL DEALERS INTERNATIONALLY

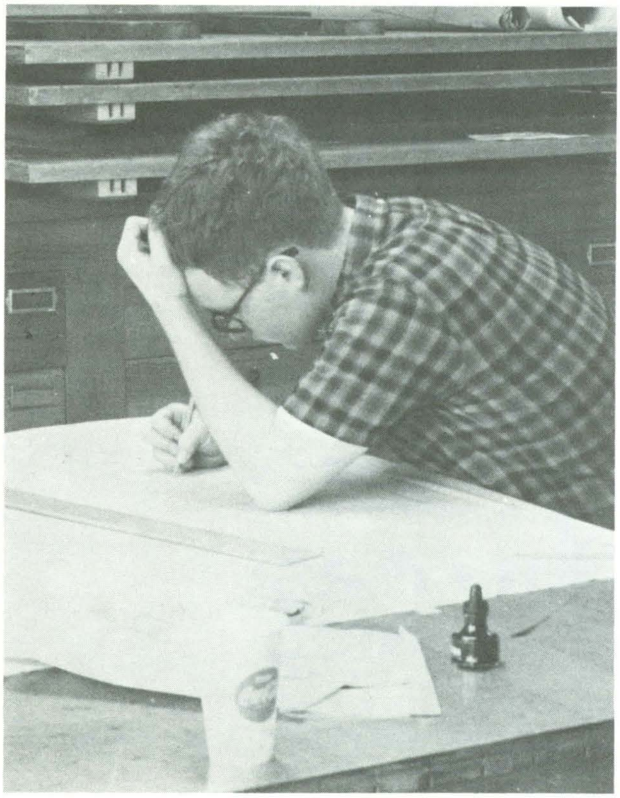
WRITE FOR OUR CATALOG

of wire rope rigging fittings and tools showing nearly 400 items, and for separate catalogs on Grapples and Heel Booms.

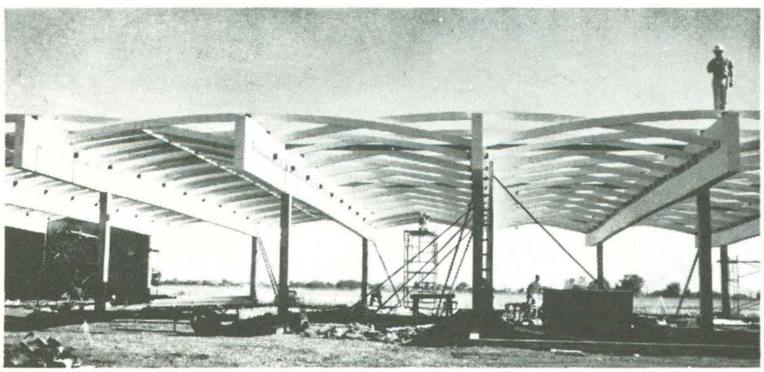
SINCE 1902 young CORPORATION

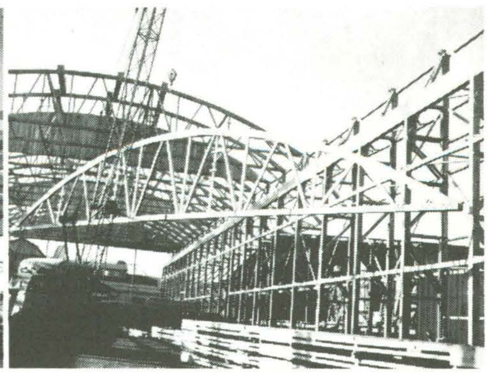
YOUNG CORPORATION

Main Office: P.O. Box 3522, Seattle Washington 98124
Branch: P.O. Box 689, Eugene, Oregon 97401

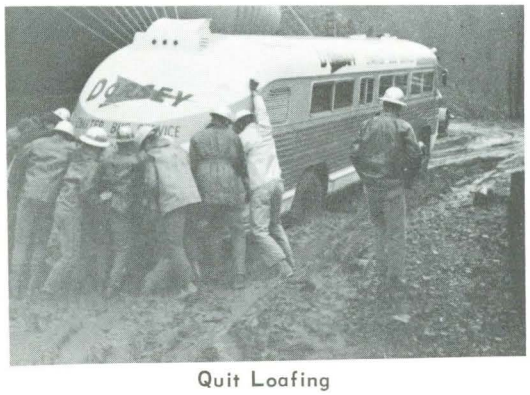


Wake up John.





That means you too John.



Quit Loafing

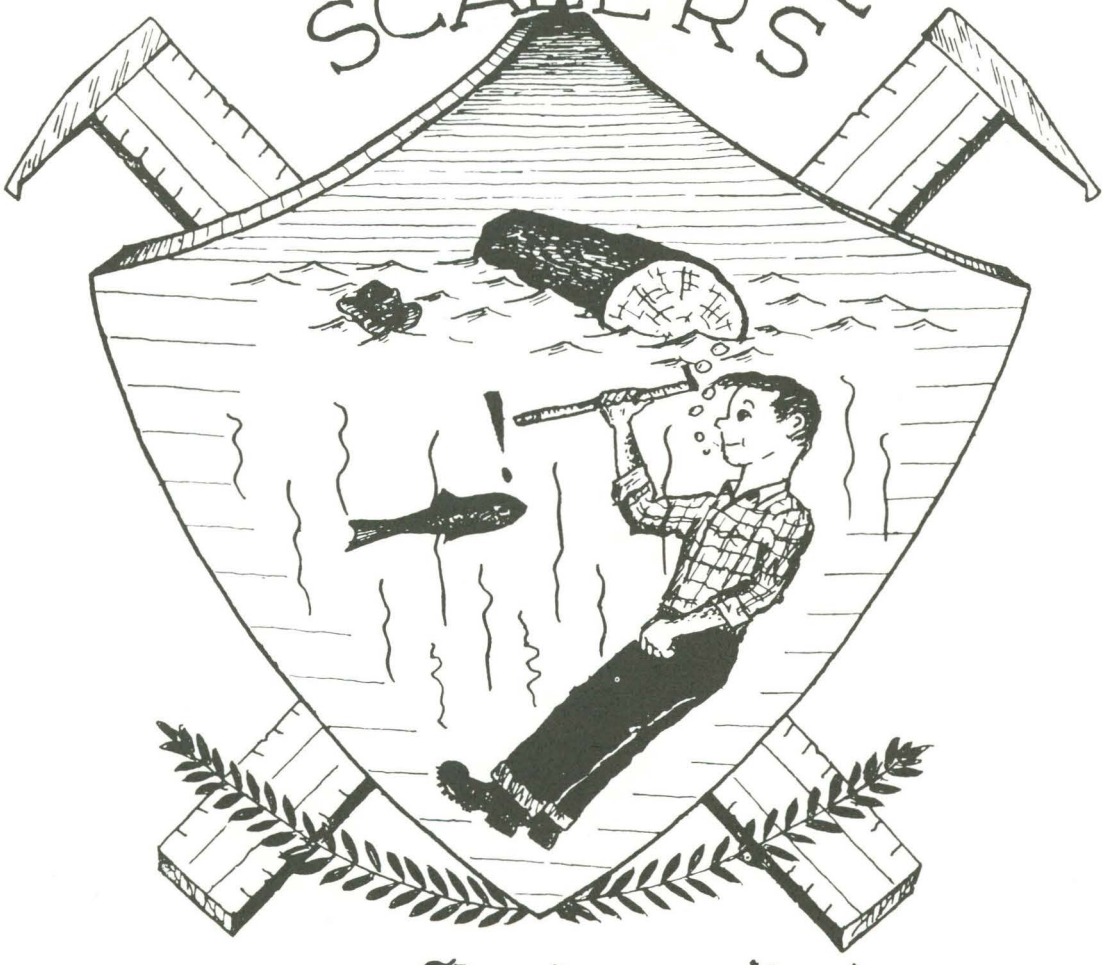
Let's clear-cut it and build a ski lift.

A typical Mens crew

Horse log it??

The Royal Order

# of SUBMARINE SCAREERS



By these criterion ye shall know and recognize them:

Purple noses
Chronic coughs
Creaking boots
Barked-stained clothing
Water-soaked eyeballs

ACTIVE MEMBERS

Royal Order

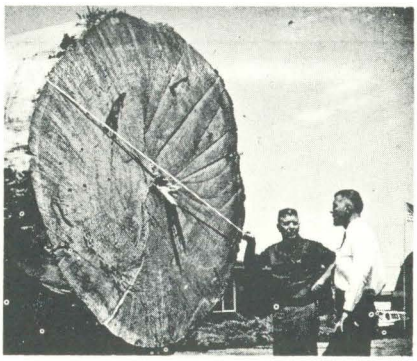
William Dryden
Thomas Erickson
Jerry Gardenhire
Thomas Hatcher
James Nielson
Charles Payne
Jerry Richardson
David Rubin

ALPHA CHAPTER
ESTABLISHED AT
OREGON STATE SCHOOL
of FORESTRY ~ FALL 1946

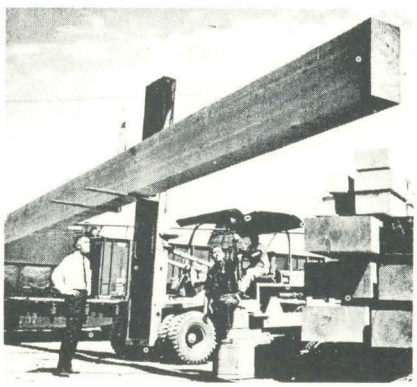
WE SPECIALIZE IN

Long Dimension To 44Ft — Timbers To 56 Ft — Export & Domestic Clears — Transmission and Cross Arms – Gutterstock — Shipdecking

LOG – 86'' IN DIAMETER – APPROX. 450 YRS. OLD



OUR MOST SINCERE THANKS TO ALL MEMBERS AND ASSOCIATE MEMBERS OF THE UNIVERSITY SCHOOL OF FORESTRY FOR RESEARCH AND SERVICES RENDERED TO THE FOREST PRODUCTS INDUSTRY AT LARGE.



LARSON LUMBER COMPANY

GEN. OFFICE	752-2456
SALES OFFICE	752-2458
TWX	503-758-0676

The seven largest timbers totaled nearly 14,000 board feet and weighed close to 30 tons. The largest timber measured 18" x 36" x 48'. All were rough green select structural timbers.

Georgia-Pacific "shoots" for super trees

Super trees that grow to harvestable size much faster than average may be an answer to the increasing demand for timber... demand the U.S. Forest Service says may double by the year 2000.

Georgia-Pacific has developed a strain of young trees that shows promise of being rated in the "super" class. To get them, Georgia-Pacific foresters gathered scions from superior Douglas fir and grafted them to nursery trees. Then cone flowers were pollinated with a hypodermic needle. The resulting "super-seeds" were planted and have grown much faster than normal trees alongside.

Our Genetics Research Foresters are doing much more than just take care of the 35-billion board feet of timber we own or control. G-P is striving to change sustained yield to accelerated yield, growing more and better wood faster. This is an objective you would expect from The Growth Company.

For information on career possibilities with G-P, write us at 375 Park Avenue, New York, New York 10022; or P.O. Box 311, Portland, Oregon 97207.

GEORGIA-PACIFIC
THE GROWTH COMPANY