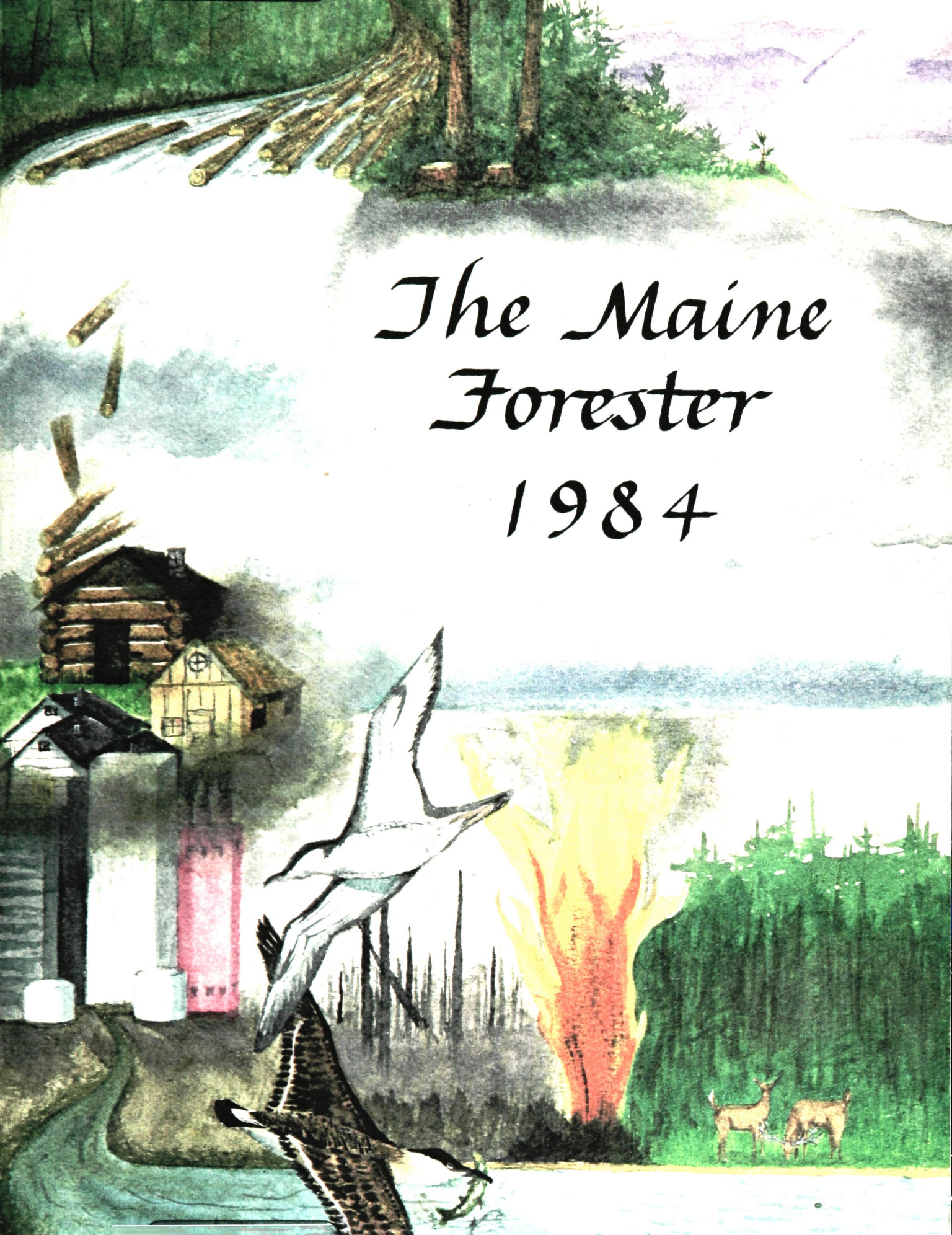

The Maine Forester 1984

In your hands has been placed the legacy of all foresters, the task of utilizing and perpetuating all of Nature's Renewable Resources. It is your privilege and your duty to strive to your utmost to be a credit to the most valuable and rewarding of professions.

This was written by the editor of the 1959 *Maine Forester.* It holds true to an even greater extent today, not only for foresters, but for all resource managers.

The Theme of the *1984 Maine Forester* is "Man and His Environment—Our Responsibility as Natural Resource Managers in Guiding this Relationship." We hope that you will take this responsibility seriously. How you do this will depend a great deal on your education. Whether you are graduating or not, you still have a great many learning experiences ahead of you. Many of these will not be in a classroom.

We have tried in this book, to give a picture of our educational environment and our preparations to be professionals. This environment is composed of both classroom experiences and extracurricular activities.

As we assume responsibility for our natural resources, it is important to remember that we influence our environment as much as it influences us. Hopefully, in the future, we will consider the consequences of the actions we take as professional foresters, wildlifers, wood technologists, and recreation managers.

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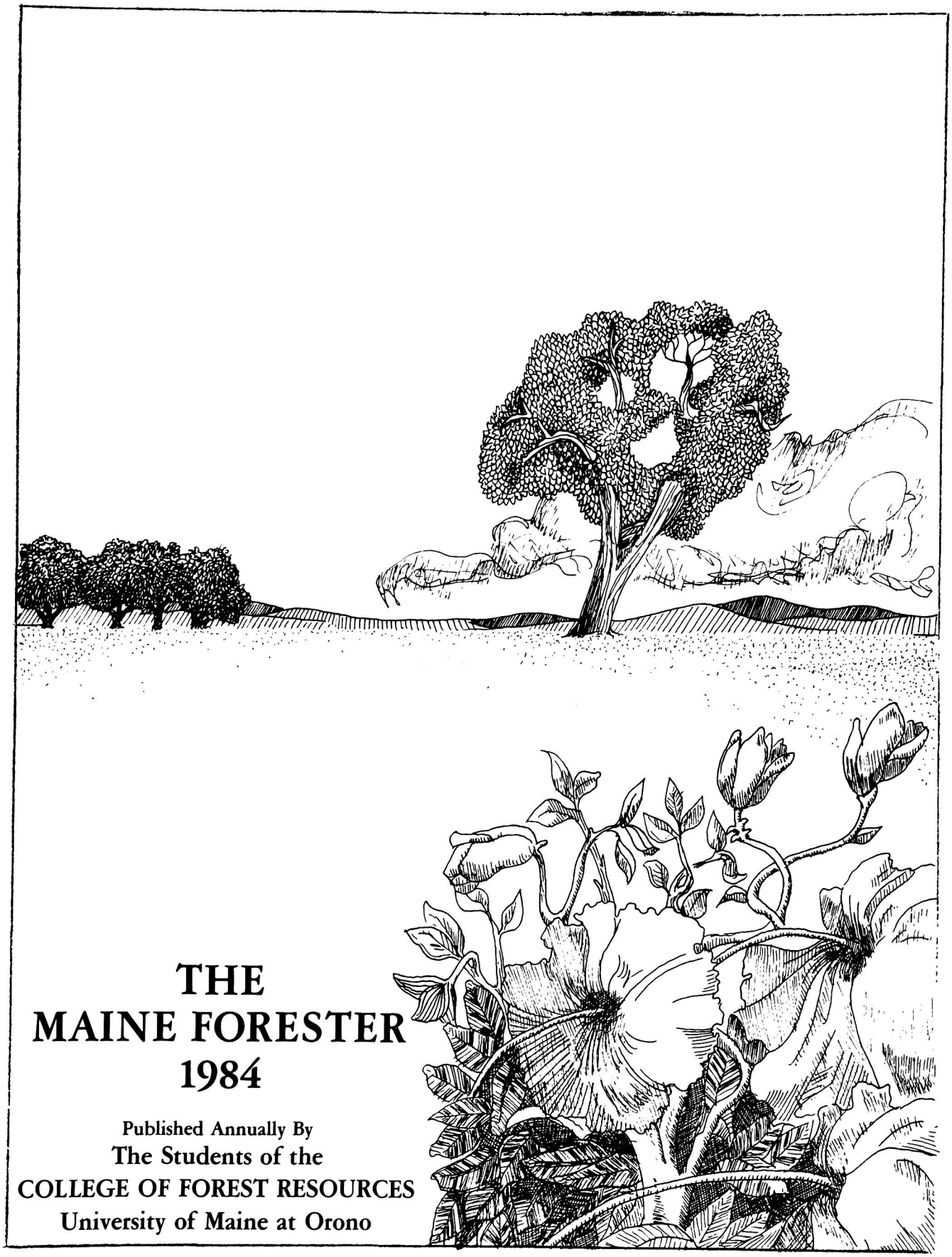
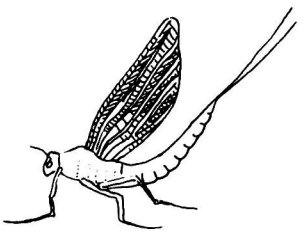


THE MAINE FORESTER 1984

Published Annually By
The Students of the
COLLEGE OF FOREST RESOURCES
University of Maine at Orono

DEDICATION

Fred B. Knight



The ability to work with the environment, the vision to see its potential, and the dedication to help realize that potential are qualities needed by successful resource managers. Dr. Fred B. Knight embodies this type of professionalism in his life around Nutting Hall. The students of the College of Forest Resources are proud to dedicate the *1984 Maine Forester* to Dr. Knight.

Dr. Knight helps the College grow in stature and status, and has done so since he became director of the School of Forest Resources in 1971. His work culminated in the School becoming the College of Forest Resources in 1982. The professionalism Dean Knight has is best expressed by his own words when writing about the College, ". . . we should aim for the very highest or we will be failing our constituents."

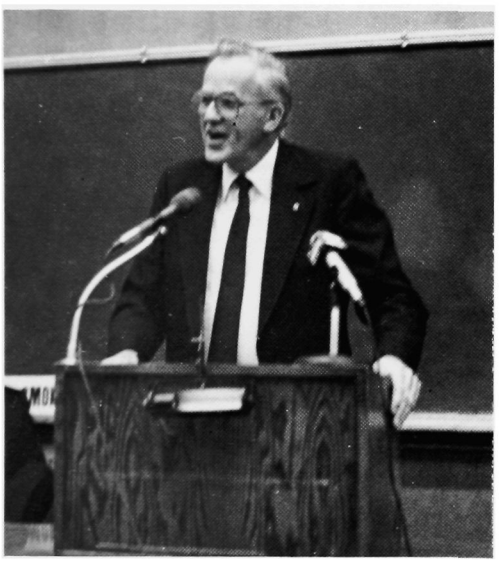
Dr. Knight has been more than a Director and Dean. He is our friend. He is liked by every student in the College and he knows many students on a personal level, and cares about them as people. Students feel free to go to him for help at any time. As you walk into his office you feel at home, with a friend who will give you advice and help you if he can. Dean Knight encourages students towards their career goals by solving many of the problems with classes and curricula.

Realizing the value of student organizations in education, Dr. Knight has always encouraged the activities sponsored by the students. He has been there to listen to our ideas and problems, and to aid us in our endeavors. It is largely due to his encouragement that the student organizations have flourished and remain a major part of this College.

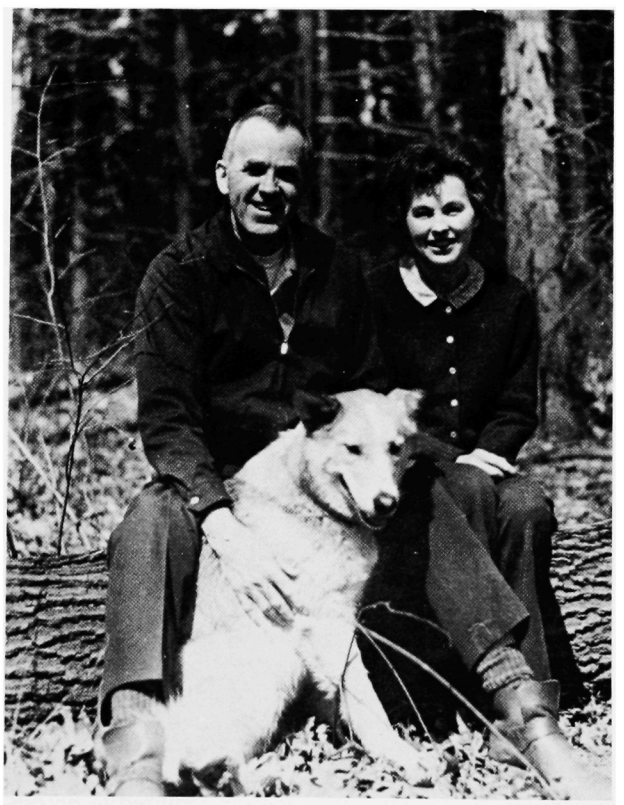
Dr. Knight's concern for the students doesn't end with graduation. Many students owe their present employment to career opportunities found in the Dean's office. Dean Knight also keeps an eye on past graduates as a measure of the school's performance.

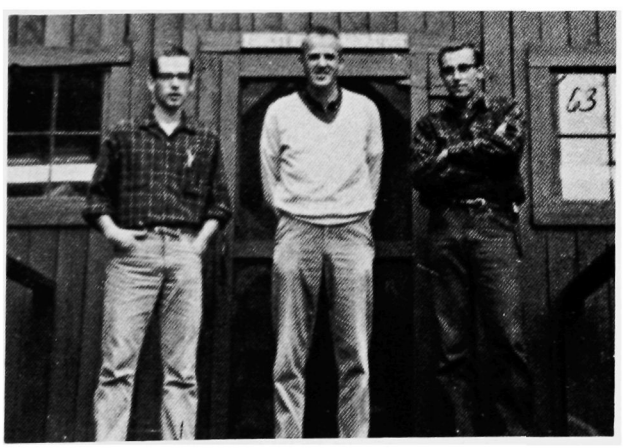
For all the overlooked help, for all the concern, and mostly for the professionalism, we would like to take this opportunity to say thank you, Dr. Knight.

Working with the US Forest Service in the Colorado Rockies, 1959.



Dedication of the College, 1982.





University of Michigan Summer Camp, 1963.

Greetings from the Dean

The theme for the *1984 Maine Forester* is "Man and His Environment—Our Responsibility as Natural Resource Managers in Guiding This Relationship." While this theme would have been appropriate during any year in the history of the *Maine Forester,* it appears to be particularly relevant at this time. While our nation has been aware of its limited natural resources for many years, we have continued to enjoy a bountiful supply of those resources. Projections into the future for even 10 or 20 years indicate that the per capita availability of our natural resources will become limiting. At this same time, technology has provided us with the capacity to manage our natural resources to meet the demands of an expanding population. This setting challenges us as professional natural resource managers with one of the greatest responsibilities in the history of our nation.

As natural resource managers, we also are faced with a growing demand for multiple use of our natural resources. This, in many instances, has created conflicts among the public and among natural resource managers. We should manage toward all values to be gained from our natural resources. However, we must be aware that in any restricted land area, it may not be possible to provide for all values. In fact, attempting to do so could represent irresponsible management. On a broad land base, we can provide for all these amenities.

As natural resource managers, we must try to relate to all people, and not just those with whom we agree. We must instill confidence in all our population that we are concerned with managing our natural resources toward their interests. This image is important to develop our credibility among the population in order to permit us to proceed with natural resource management in an effective manner. We must be objective in directing our professional expertise toward natural resource management, and avoid decisions based primarily on emotion. This will require consideration of the scientific basis of our natural resources while recognizing the demands of the public. This challenge will be difficult because the demands of the public often may not be consistent throughout the population and may not be consistent with sound resource management.

The land ownership pattern in this country presents an additional challenge in that approximately 72 percent of our commercial timberland area is under private ownership, while natural resource planning and management can be more easily implemented on public lands. Encouraging the private sector to responsibly manage their lands is another challenge which natural resource managers must face in the future.

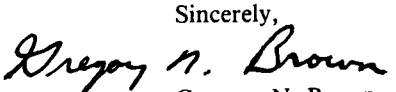
As natural resource managers we must provide for quality research to identify natural resource problems and solutions; we must provide for education in the formal classroom for students, through continuing education for professionals, and through extension of information for the general public; and we ultimately must provide for the best planning and management for all our natural resources. Professional information required to accomplish these goals must be disseminated through multiple media. As responsible natural resource managers, we also must participate in the American political process through the appropriate legislative, executive and legal channels. Education through the political process also is a challenge which we must accept. If natural resource managers are quiet in this arena, irresponsible political decisions may be made relative to management of our natural resources, and will dictate what we must practice.

Our College of Forest Resources at the University of Maine can take great pride in achievements made since its founding in 1903. With the changing environment, population, and social pressures, we and our programs also must be flexible. Our College has a reputation of having adapted to changes over its 81-year history, and I'm sure we will continue to do so in the future. The message I would like to emphasize in this letter is the extreme importance of our students to the future of professional natural resource management. You often have heard it said that the students in our country are our country's future, but have you ever seriously considered the significance of this saying. The projected shortfalls and associated problems in our natural resources will occur several years in the future. The decision-makers and natural resource managers at that time will be today's students. This is why the professional education gained by our students becomes so important to our professional future, and to the future of natural resources in our country.

Our College of Forest Resources has undergone many changes during the past few years. Since this is my first opportunity to prepare this letter for the *Maine Forester,* I am particularly conscious of those changes which preceded my arrival, and to those individuals to whom we owe appreciation and respect for having guided our programs over the past years. I would particularly like to recognize Dr. Fred Knight for his guidance and devotion to the students and professional programs of our College of Forest Resources from 1972 through 1983. We are fortunate to have Dr. Knight continue with our College working directly with students and student programs. This assures our College a continuation of its strong programs in the years ahead.

I would like to close this letter with a special recognition and challenge to the class of 1984. You will be our next student group to move into the world of the professional natural resource manager. Hence, from among our present student body, the challenges I have discussed in this letter will first be assigned to you. In the short time I have been with our College, I have been impressed with the quality and attitudes of our students, and am confident that our graduates will meet the challenges ahead in management of our natural resources. On behalf of our College of Forest Resources, I wish our 1984 graduates success, peace, and happiness in their careers and lives.

Sincerely,



Gregory N. Brown
Dean

Comments by the Associate Dean

I appreciate the invitation to make a few comments to the students in the *1984 Maine Forester*. I feel the Dean has summarized very well the conditions under which we must work during the years ahead. Our responsibilities as resource managers are growing and are becoming more complicated as the years pass.

The theme for this year's *Maine Forester* appropriately reflects a continuing responsibility for all of us. Our efforts as resource managers to help reduce environmental problems seem at times to be too little and too late. But there are many examples of management results that have been successful in reducing damage to the environment. These will continue and must increase to include more of the world-wide environment. It may seem that it is impossible to do much about the environment in those parts of the world in which the major effort seems to be in people killing each other or where overpopulation and starvation are a part of everyday life.

However, we can help in our roles as managers to do our bit no matter how small it may seem to be. We must endeavor to correct our own environmental mistakes and perhaps we will have an opportunity to make a difference in the global situation.

You have a job to do that will require many of your free hours in teaching care of the environment to thousands of people; managing the resource is only a part of your responsibility. Teaching people to properly manage their environment is a vital job and an extremely frustrating one. It must be done and can only be accomplished by people who are not only dedicated but also know what they are doing.

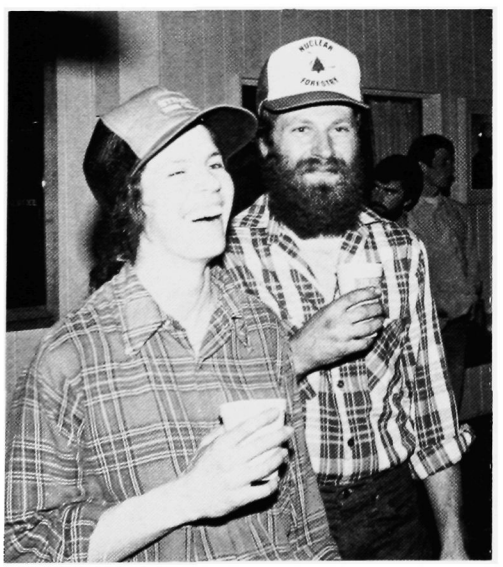
Students here today will be the professionals managing our resources during the years ahead. The challenges are great and despite the complexity of the issues you will be working in an exciting time. I would like to be young enough to join you because I think the treatment of resources during the next 30 years will be crucial to the survival of our country as a free nation. I believe the professional job will be more exciting and meaningful than ever before.

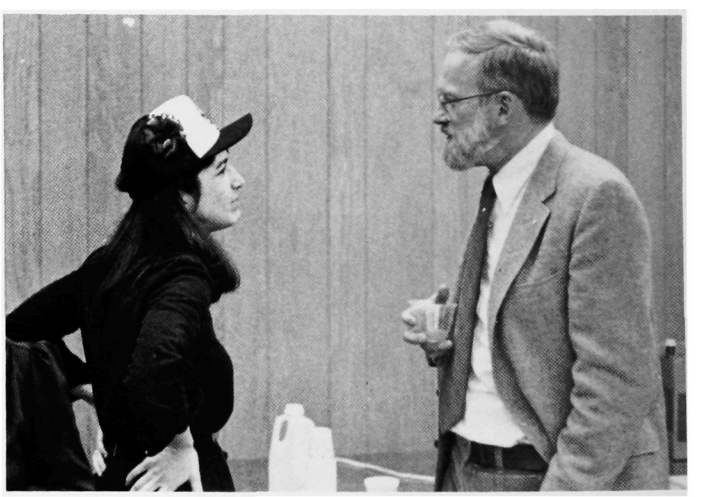
The Class of 1984 has been challenged to do a better job in guiding citizens in resource management. You have prepared for the job through four years of study. Now is the time to apply those things you have learned and to educate your neighbors about good resource management. I wish each of you success in your endeavors, a happy life, many friends and much good luck.

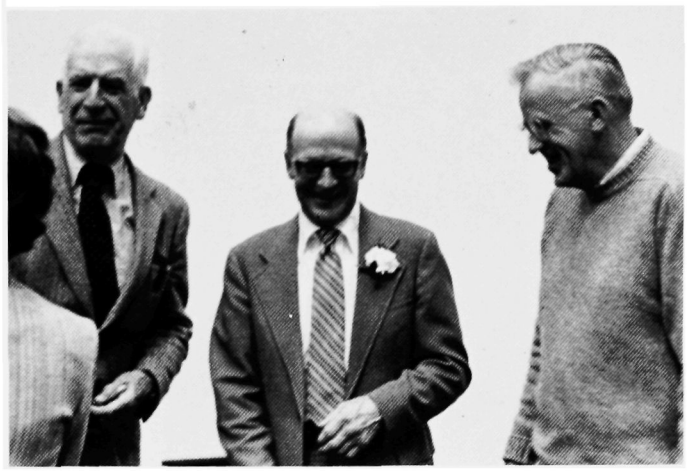
Sincerely yours,

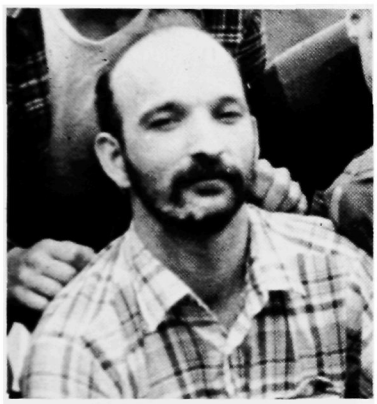
Fred B. Knight
Associate Dean

Faculty



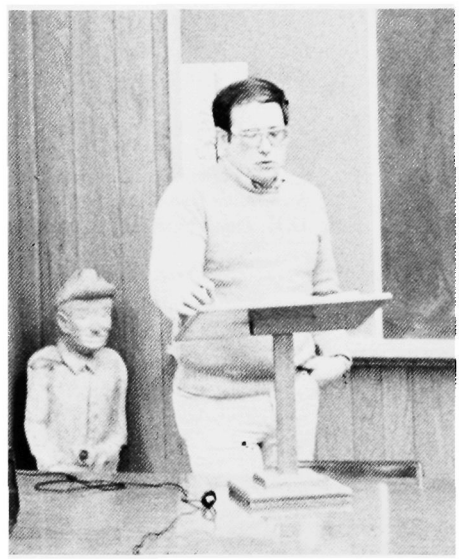


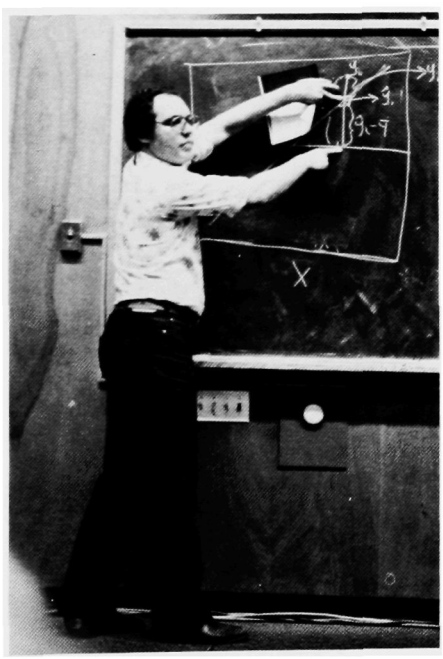


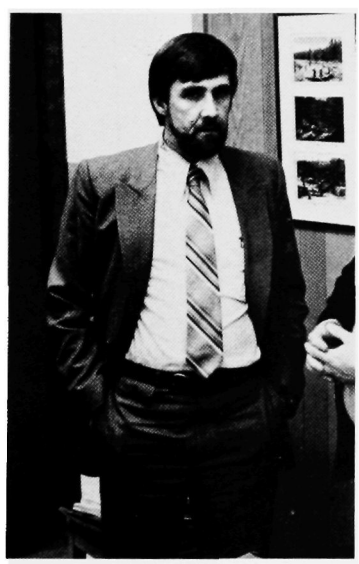


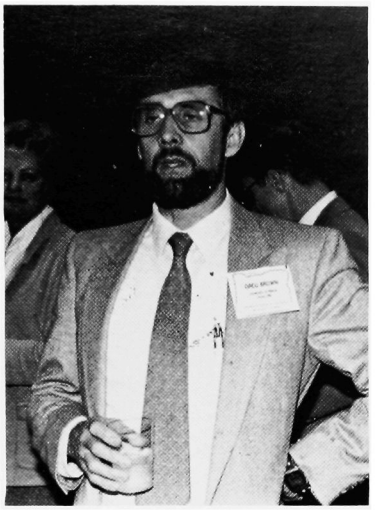
My desire for knowledge is intermittent; but my desire to commune with the spirit of the universe, to be intoxicated with the fumes, call it, of that divine nectar, to bear my head through atmospheres and over heights unknown to my feet, is perennial and constant.

Henry David Thoreau
The Journals









GREGORY N. BROWN
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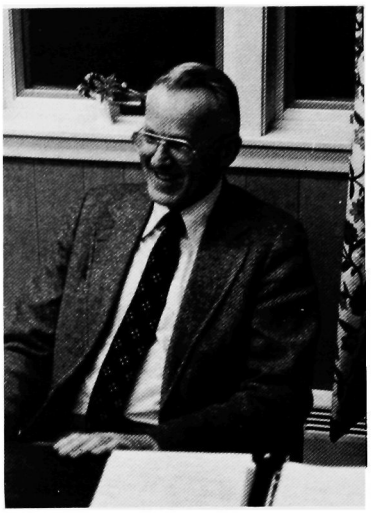
M.F., Yale University, Silviculture, 1960
D.D., Duke University, Tree Physiology, 1963
Tree Physiology



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Forest Entomology

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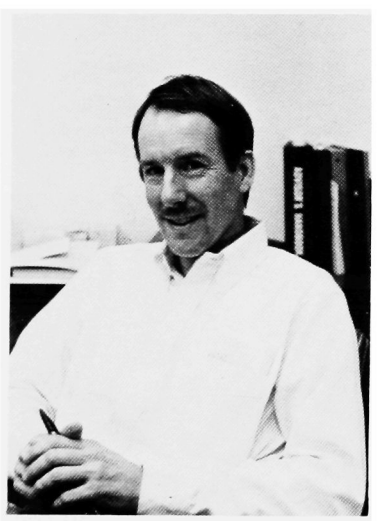

RAY B. OWEN, Jr.
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Wildlife Ecology

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Waterfowl Ecology

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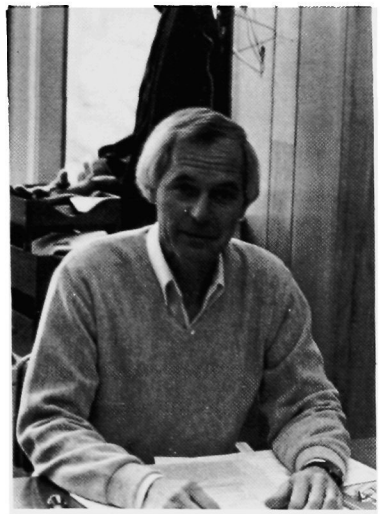
Population Dynamics



DAVID M. LESLIE, Jr.
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M.S., University of Nevada, Zoology, 1977
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Wildlife Nutrition

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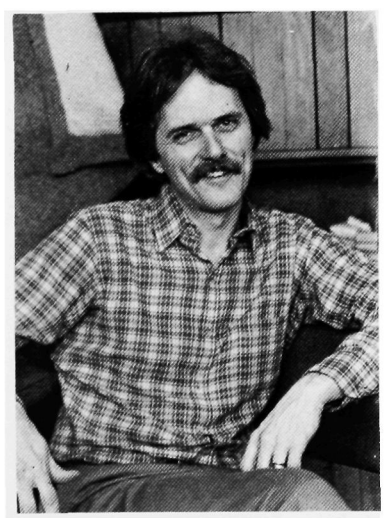
Wildlife Ecology



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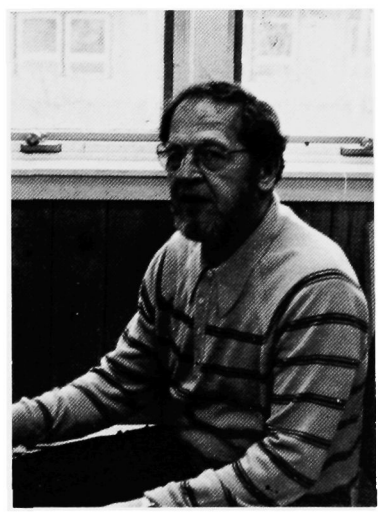
M.F.S., Yale University, Wildlife Ecology, 1970
Ph.D., University of Michigan, Wildlife Management, 1976
Ungulate Ecology



CHESTER F. BANASIAK
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M.S., University of Massachusetts, Wildlife Management, 1952
Ph.D., University of Maine, Forest Resources, 1974
Big Game Management

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B.S., Utah State University, Forestry 1964
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Ph.D., University of Michigan, Forestry 1971
Forest Recreation, Recreation and Parks Management

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Forest Tree Improvement

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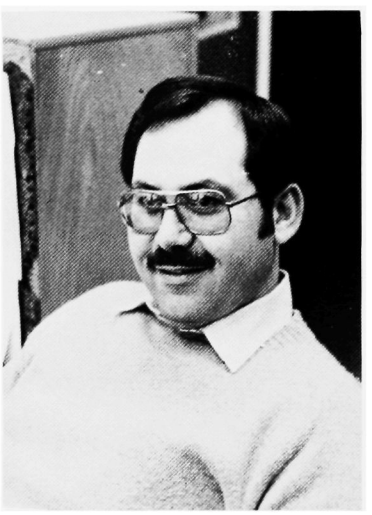
B.S., Virginia Polytechnic Institute, Conservation and Forestry, 1943
M.F., Yale University, Forest Management, 1947
D.F., Duke University, Silviculture, 1956
Silviculture



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B.S., Kansas State University, Biological Sciences and Education, 1965
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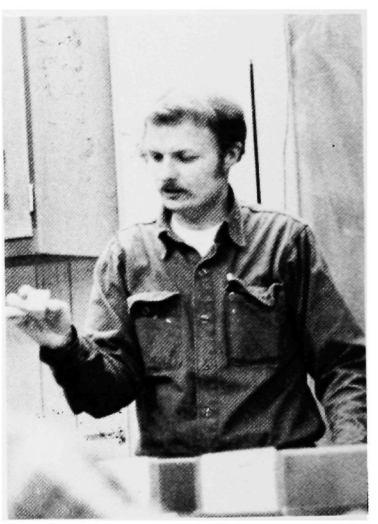
Ph.D., University of Minnesota, Forest Entomology and Computer Sciences, 1976
Forest Protection, CFRU



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B.S., Syracuse University, Wood Anatomy, 1962
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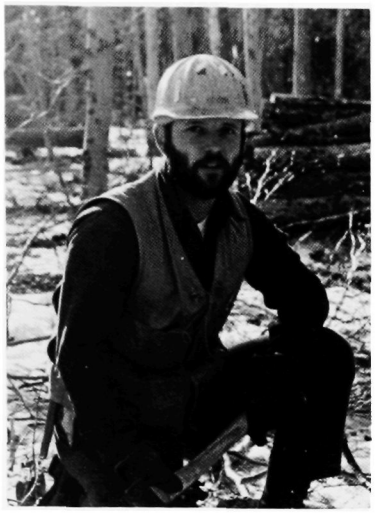
Wood Anatomy



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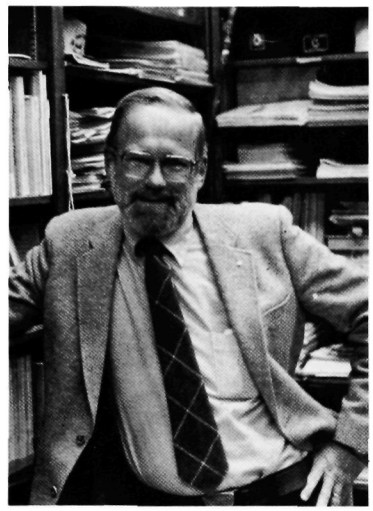
Biology and Integrated Management of Small, Non-industrial Forests



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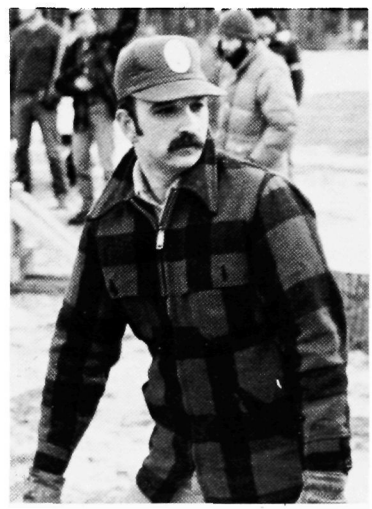
Photogrammetry and Wood Products



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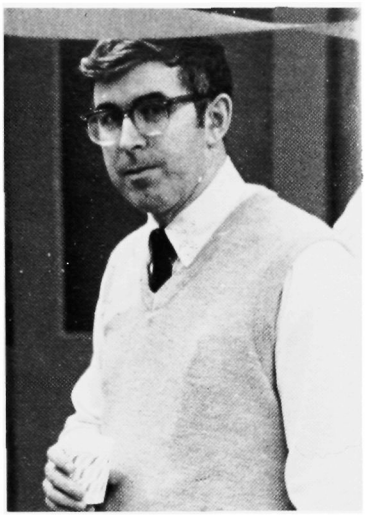

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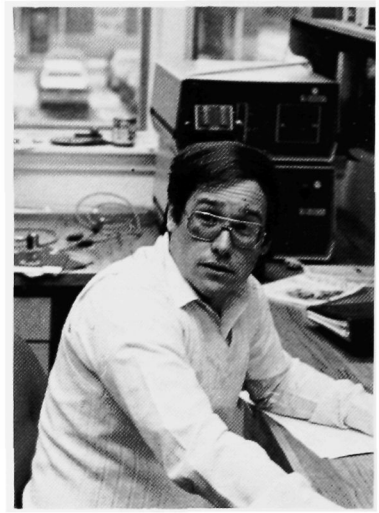

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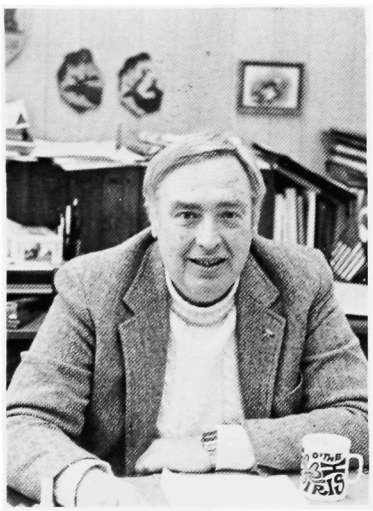

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Co-administrator Forest Engineering
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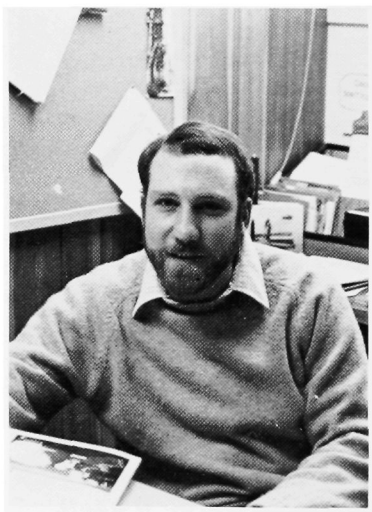
M.S.F., Purdue University, Forestry,1962
Ph.D., Purdue University, Economics, Industrial Engineering, Statistics, 1962
"Engineering Economics"



BARRY S. GOODELL
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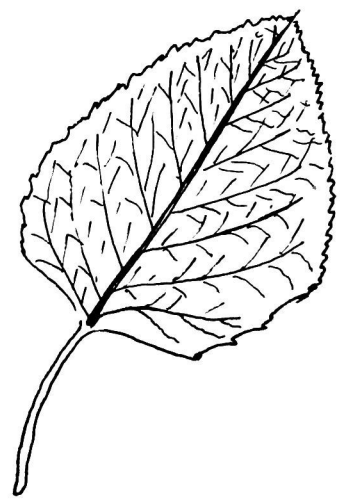
M.S., Oregon State University, Forest Products, 1980
Ph.D., Oregon State University, Forest Products, 1983
Wood Science and Technology



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M.F., Yale University, Forestry, 1948
Primary Wood Processing

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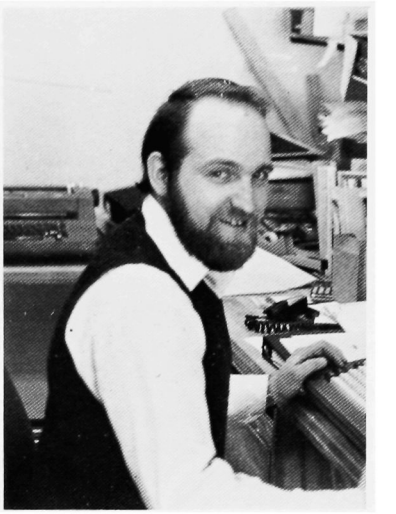
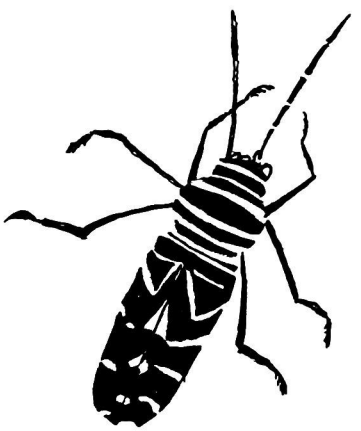
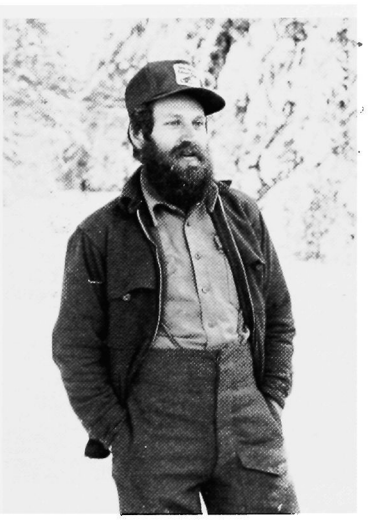
M.Phil., Yale University, Silviculture, 1981
Ph.D., Yale University, Harvesting, 1982
Timber Harvesting

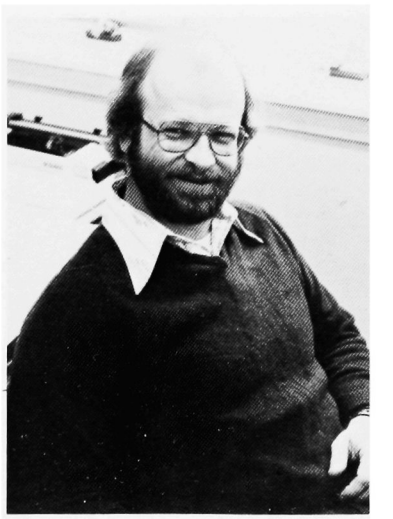


J. LOUIS MORIN
Research Instructor in Forest Resources
B.S., University of Maine, Forest Management, 1976
M.S., University of Maine, Forestry, 1978
Photo Interpretation and Remote Sensing

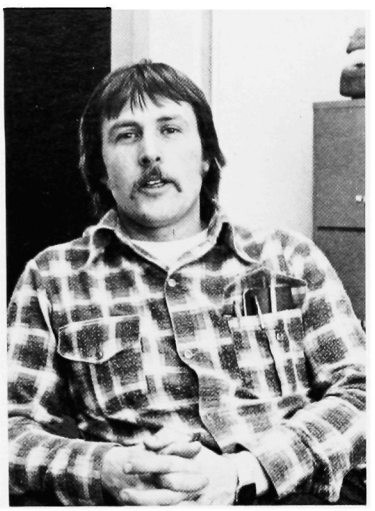




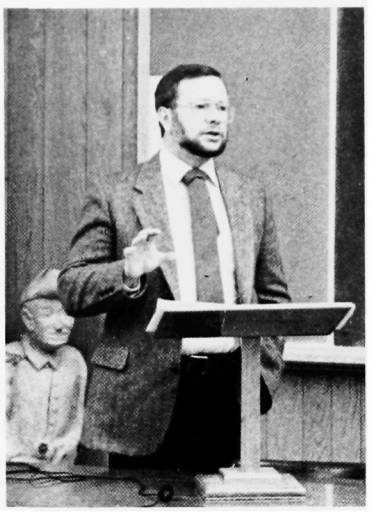
PETER ORZECH
Research Technician, University Forests
B.S. University of Vermont, Forest Management, 1976



ROBERT S. SEYMOUR
Assistant Research Professor
Cooperative Forestry Research Unit
B.S., Ohio State University, Forest Management, 1974
M.F., Yale School of Forestry and Environmental Studies, Forest Management, 1976
Ph.D., Yale School of Forestry and Environmental Studies, Silviculture, 1980
Timber Management and Harvesting



CHARLES J. SIMPSON
Forest Superintendent
B.S., University of Vermont, Forest Management, 1975
M.B.A. In Progress, University of Southern Maine
Forest Management/Harvesting



ROBERT K. SHEPARD, Jr.
Associate Professor of Forest Resources
B.S., University of Michigan, Forestry, 1963
M.F., Duke University, Forest Entomology, 1964
Ph.D., University of Michigan, Forestry and Biometeorology, 1970

JAMES S. SHOTTAFER
Professor of Wood Technology
Head, Forest Products Laboratory
B.S., State University of New York, Syracuse, Wood Technology, 1954
M.S., State University of New York, Syracuse, Wood Technology, 1956
Ph.D., Michigan State University, Wood Science, 1964
Wood Properties and Processing

PROFESSORS EMERITUS
Gregory Baker, Professor Emeritus of Forestry
Frank K. Beyer, Associate Professor Emeritus of Forestry
Lewis P. Bissell, Extension Forestry Specialist Emeritus
Edwin L. Giddings, Associate Professor Emeritus of Forestry
Howard L. Mendall, Professor Emeritus & Leader of Cooperative Wildlife Research Unit
Albert D. Nutting, Director Emeritus
Henry A. Plummer, Associate Professor Emeritus of Forestry
Arthur G. Randall, Associate Professor Emeritus of Forest Technology
Roland Struchtemeyer, Professor Emeritus of Forest Soils
Roger Taylor, Forest Superintendent Emeritus

FACULTY ASSOCIATES
Barton M. Blum, Project Leader, U.S. Forest Service
Hewlette S. Crawford, Research Wildlife Biologist, U.S. Forest Service
Stephen Fairweather, Inventory Forester and Biometrician, Great Northern Paper Co.
Robert M. Frank, Research Forester, U.S. Forest Service
Lloyd C. Irland, Bureau of Public Lands, Dept. of Conservation
Jerry R. Longcore, Biologist, U.S. Fish & Wildlife Service
Gordon D. Mott, Research Forester, U.S. Forest Service
Sarah Redfield, State Attorney General's Office
Thomas B. Saviello, Northern Forest Research Center of International Paper Co.
Dale S. Solomon, Research Forester, U.S. Forest Service
Howard E. Spencer, Jr., Leader, Migratory Bird Project, Maine Department of Inland Fisheries & Game
Charles D. Webb, Manager, Northern Forest Research Center of International Paper Co.

Cooperating Professors

HAROLD C. GIBBS
Professor of Animal and Veterinary Sciences and School of Forest Resources
B.S., McGill University, Animal Husbandry, 1951
D.V.M., Toronto, Veterinary Medicine, 1955
M.S., McGill University, Parasitology, 1956
Ph.D., McGill University, Parasitology, 1958
Parasitology

WILLIAM E. GLANZ
Assistant Professor of Zoology
Cooperating Assistant Professor of Wildlife
B.A., Dartmouth College, Biology, 1970
Ph.D., University of California, Berkeley, Zoology, 1977
Vertebrate Ecology

GEORGE L. JACOBSON, Jr.
Assistant Professor of Botany & Quaternary Studies; Cooperating Assistant Professor of Wildlife
B.S., Carleton College, Minnesota, Biology, 1968
Ph.D., University of Minnesota, Ecology, 1975
Plant Ecology!Paleoecology

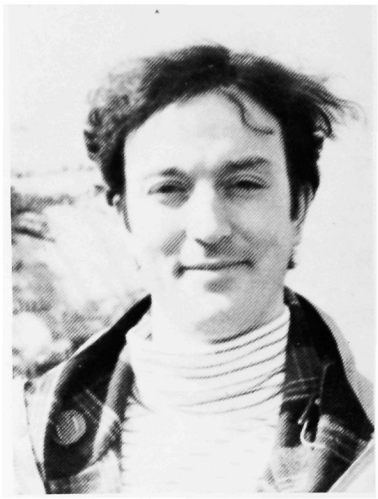
THOMAS E. CHRISTENSEN
Associate Professor of Agriculture & Forest Engineering Technology
B.S., University of Maine, Agricultural Engineering, 1971
M.S., University of Maine, Agricultural Engineering, 1973
Fluid Power and Forest Machinery

NORMAN SMITH
Professor of Forest Engineering, Co-Administrator Forest Engineering
B.Sc., Leeds College, England, Agricultural Engineering, 1952
M.Sc., Durham, England, Agricultural Engineering, 1959
Ph.D., Newcastle, England, Agricultural Engineering, 1970
M.S., University of Maine, Agricultural Engineering, 1959
Forest Engineering

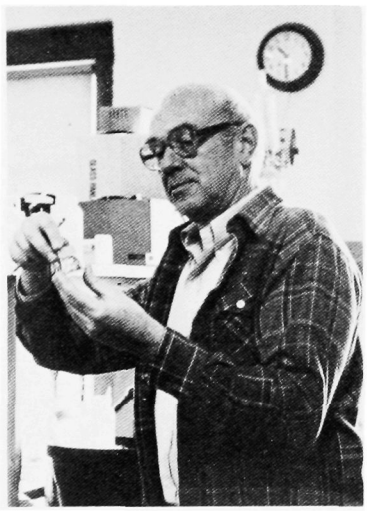
A. RANDALL ALFORD
Assistant Professor of Entomology; Cooperating Assistant Professor of Forest Resources
B.S., University of Southern Mississippi, Biology, 1974
M.S., Louisiana State University, Entomology, 1976
Ph.D., Louisiana State University, Entomology, 1980
Insect Physiology

JOHN W. BUTZOW
Cooperating Professor of Science and Environmental Education
B.S., St. Bonaventure, Chemistry, 1961
M.S., St. Bonaventure, Organic Chemistry, 1963
Ed.D., University of Rochester, Science Education, 1968
Environmental Education, Curriculum Development

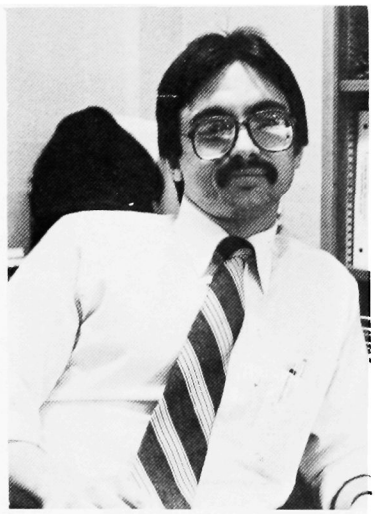
RICHARD J. CAMPANA
Interim Chairman, Department of Botany and Forest Pathology
Professor of Botany and Forest Pathology
Cooperating Professor of Forest Resources
B.S.F., University of Idaho, Forest Management, 1943
M.F., Yale University Forestry School, Forest Pathology, 1947
Ph.D., Yale University Graduate School, Forest Pathology, 1952
Vascular Wilt Disease of Trees



CHRISTOPHER S. CRONAN
Cooperating Assistant Professor of Forest Resources
B.A., University of Pennsylvania, Ecology, 1973
Ph.D., Dartmouth College, Plant Ecology and Biogeochemistry, 1978
Forest Biogeochemistry



JOHN B. DIMOND
Professor of Entomology
Cooperative Professor of Forest Resources
B.S., University of Rhode Island, Zoology, 1951
M.S., University of Rhode Island, Zoology, 1953
Ph.D., Ohio State University, Entomology, 1957
Forest Insect Pest Management



IVAN J. FERNANDEZ
Assistant Professor of Soil Science and Cooperating Assistant Professor of Forest Resources
B.A., Hartwick College, Plant Science, 1975
M.S., University of Maine, Plant and Soil Sciences, 1978
Ph.D., University of Maine, Forest Resources, 1981
Forest Soils

EBEN A. OSGOOD
Professor of Entomology, Cooperating Professor of Forest Resources
B.S., University of Maine, Forestry, 1951
M.F., Duke University, Forestry, 1956
Ph.D., University of Minnesota, Entomology, 1962
Forest Entomology

Nutting Newcomers

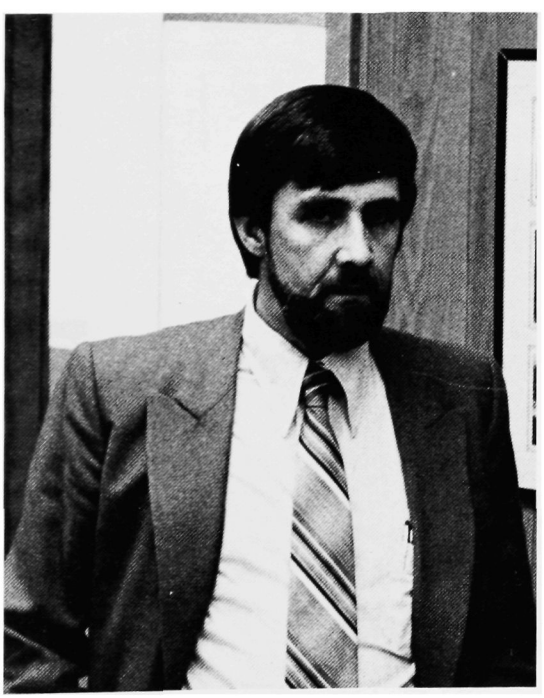
The Maine Forester staff is delighted to welcome four new faculty members to the College of Forest Resources. They have already proved themselves as valuable additions to our educational environment. We would like to introduce you to Dean Gregory Brown, Chuck Simpson, Dr. David Leslie, and Dr. Barry Goodell.

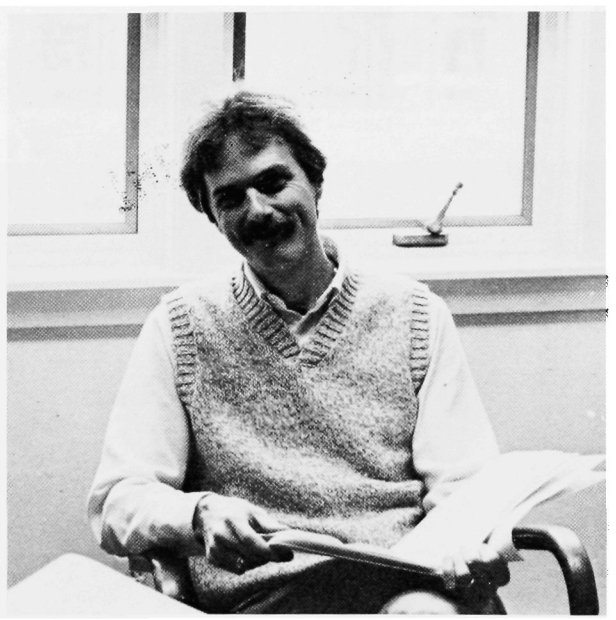
The College welcomed Dr. Gregory Brown on as Dean of the College in August 1983. He received his B.S. in Forest Management from Iowa State in 1959, his M.F. in Silviculture from Yale in 1960, and his D.F. in Tree Physiology from Duke in 1963. After obtaining his D.F., Dr. Brown did research in tree physiology at Oakridge National Laboratory in Tennessee, he was a faculty member at the University of Missouri where he started out as an assistant professor and worked his way up to a full professorship, he was a member of the faculty at Iowa State, and he was head of the Department of Forest Resources at the University of Minnesota. Dean Brown is delighted to be here for he feels that the students are very enthusiastic towards their profession, and he feels that their enthusiasm is higher here than at other schools. Dean Brown also believes that the student-faculty interaction looks good.

Chuck Simpson is the new superintendent of the Dwight B. Demeritt and Harold W. Worthern Forests. He joined the faculty during the summer of 1983. He grew up in Rochester, Vermont and received a B.S. in Forest Management from the University of Vermont in 1975. He is currently working on an M.B.A. from the University of Southern Maine. Before coming to UMO, Chuck taught a forestry and wood harvesting program at Maranacook Community College in Readfield, Maine. He enjoys working with the students and feels they are very interested in learning.

Dr. David Leslie came to UMO in the summer of 1983 as an Assistant Professor in the Wildlife Resource Department. He received a B.A. in Biology from Prescott College in 1974, and an M.S. in Zoology from the University of Nevada in 1977. He earned his Ph.D. in 1982 from Oregon State in Wildlife Ecology. His graduate work focused on Big Game Herbivores, particularly in the area of Nutrition Ecology. He feels that the students express a positive feeling and they have a broad appreciation for natural resources other than just exploitation.

Dr. Barry Goodell joined the Forest Utilization Department in September of 1983 as an Assistant Professor. He did his undergraduate work at the University of New Hampshire, and his graduate work at Oregon State University. His graduate work was done in Forest Products with an emphasis on wood preservation. After receiving his Ph.D. in 1983, he attended Laval University in Quebec to do post doctoral research in the area of Biodeterioration. Before obtaining his Ph.D., he worked for the New Hampshire Pesticides Control Board. Dr. Goodell is currently advising senior seminar, and will be teaching Wood Technology I and Wood Physics in the Fall.





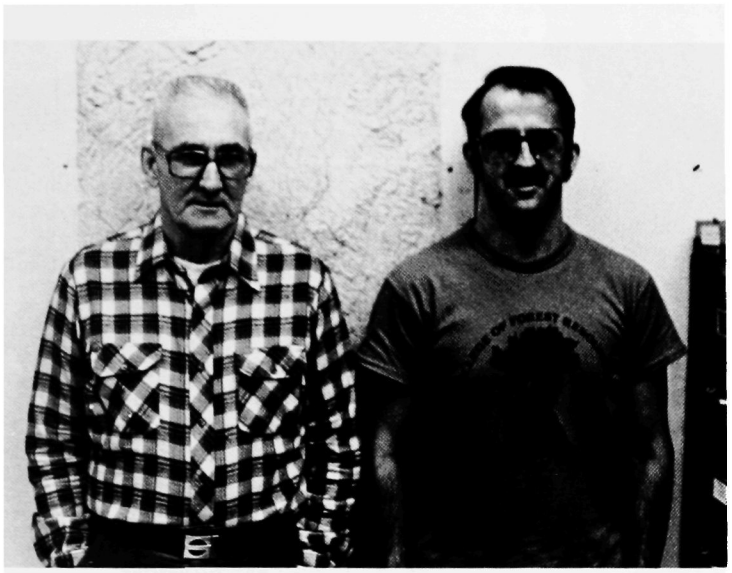
Support Staff

Maxine Horne

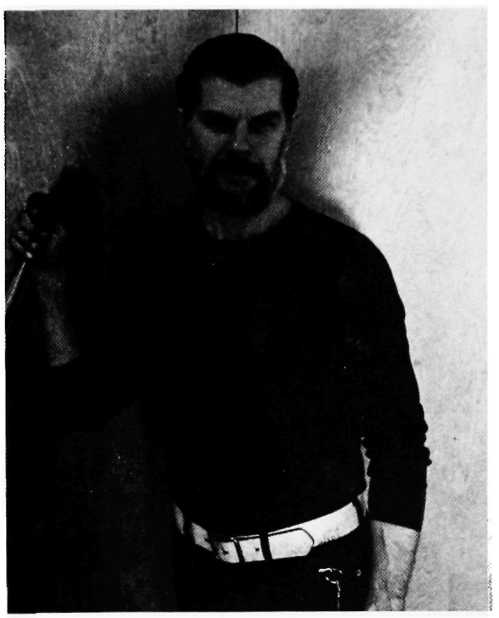
Cindy Paschal, Lynn Lavoie

Delores Stone, Marie Roy, Sharon Moody

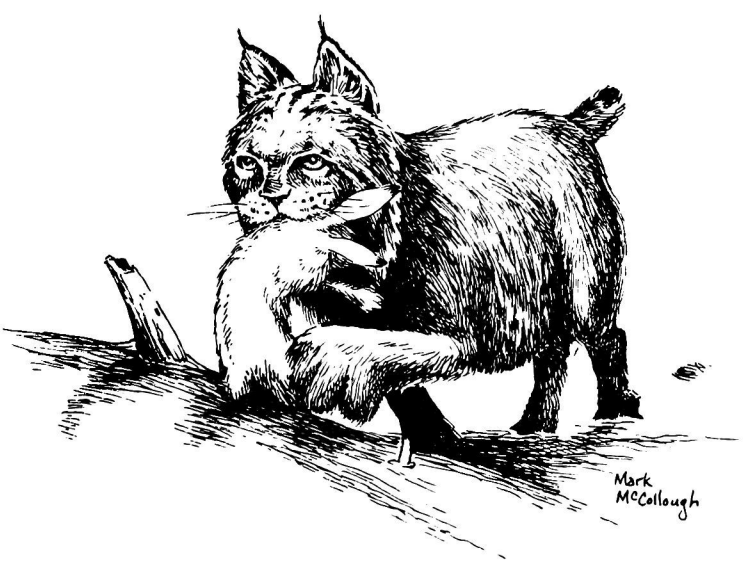
Gina Pelletier, Laurie Shaw, Nora Ackley, Janice Gifford-Assistant to the Dean

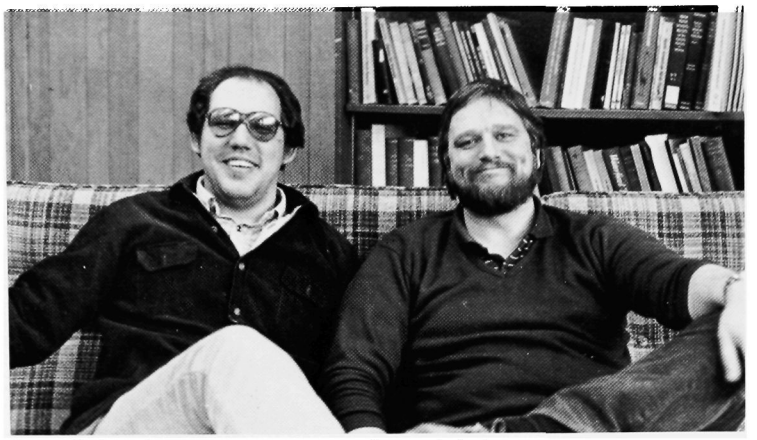


Edmund Lubby, Arthur Joaquin



Walter Legere

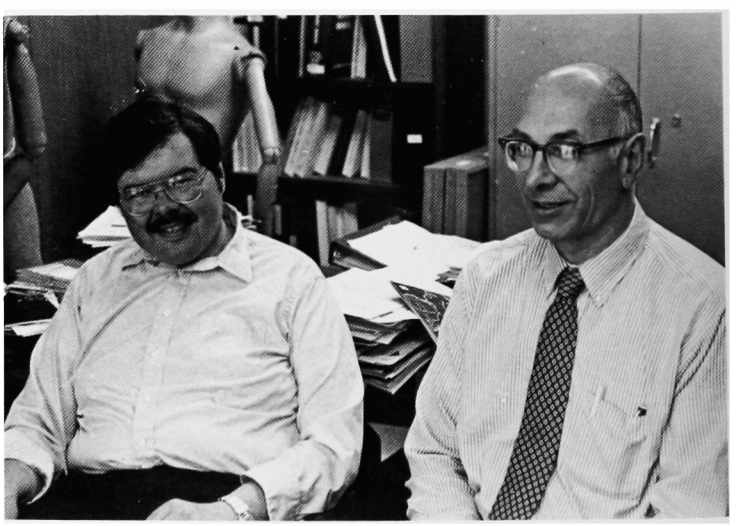




Research Associate
Greg Reams

Research Assistant
Harvey Schiltz

Maine Forest Service
Diane Hankinson, Denise Clavette Absent: Jim Rea

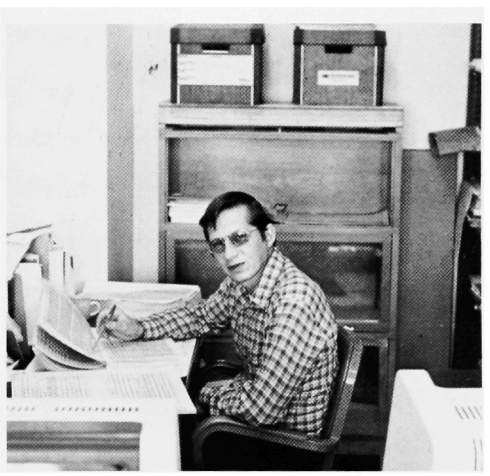


William Lilley, Marvin (Bud) Blumenstock

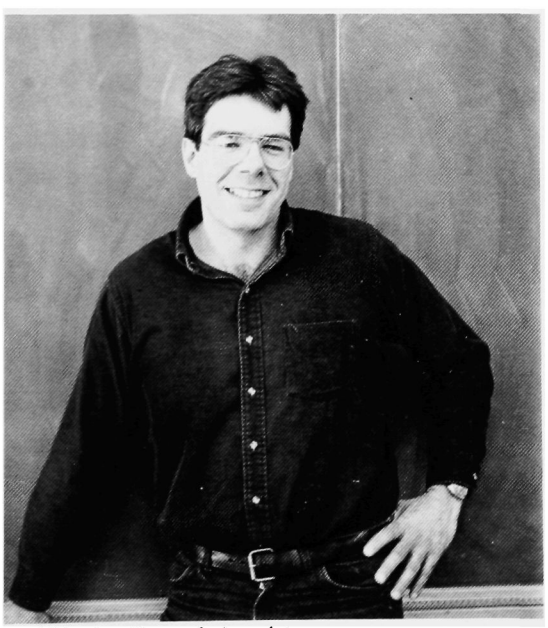
In the Field

Rob Burke, Research Technician (Wildlife)
Pete Caron, Research Technician (Forestry)
Fred Dibello, Research Technician (Wildlife)

Mary Viik, Research Technician (Wood Tech)



John Ault, Research Technician (Wildlife)



Paul Messier, Research Associate

Quotable Quotes
Faculty and Grads

"Just let me finish explaining it, and then you can agree."
Dr. Corcoran

"This was very common when I first came to Maine—which wasn't so long ago . in Geologic time, that is."
Dr. Griffin

"Furthermore, if she's in Nutting Hall, she's probably lost."
Dr. McCormack

"Barnacles spew out millions of gametes—so don't drink sea-water." Dr. P. Brown

"I guess the only thing I can say is maybe it pays to retire."
Roger Taylor, Awards Banquet

"Insects are really mixed up—they don't know whether they're male, female or what." Wally Robbins

"What was coming out was kerosene and DDT. I don't know how much I inhaled. Someday I may develop a third eye or something!" Dr. Field

"More tyranny—that's what we need around here."
Dr. Newby

"It provided pleasure for some of us to hop the clouds."
Louis Morin

"All of those root ends don't have a happy fate!"
Dr. Campana

"As fake as a forestry girl's smile." Dr. Warner

"There is no senility in chickadees." Dr. Gilbert

"I remember when I was in Silvics lab when we went out to the pine plantation past the sawmill—of course, the trees were smaller then. . . ." Dr. Field

"This isn't very big—even I can't see it." Dr. Dimond

"I'm not going in that dark room with you. Come on out in the light." Dr. Floyd to Carney

"Smokey Bear was a granola head." Dr. Brann

"I thought I was going to be quoted one year, but fortunately everyone forgot it." Dr. Hoffman

"Even the French, they're the ones who get confused most easily." Louis Morin

"I've been lost since I was born." Andy Alexson

"I've got to stop drinking beers. I'm losing a brain cell every time I do—maybe more than one." Paul Strong

"Down there in the soil it's a jungle!" Dr. Campana

Ron Tebbetts: "My wife is having twins."
Ed McWilliams: "Gee Ron, you must have been eating your Wheaties."

"Let's keep reality in perspective." Dr. Fernandez

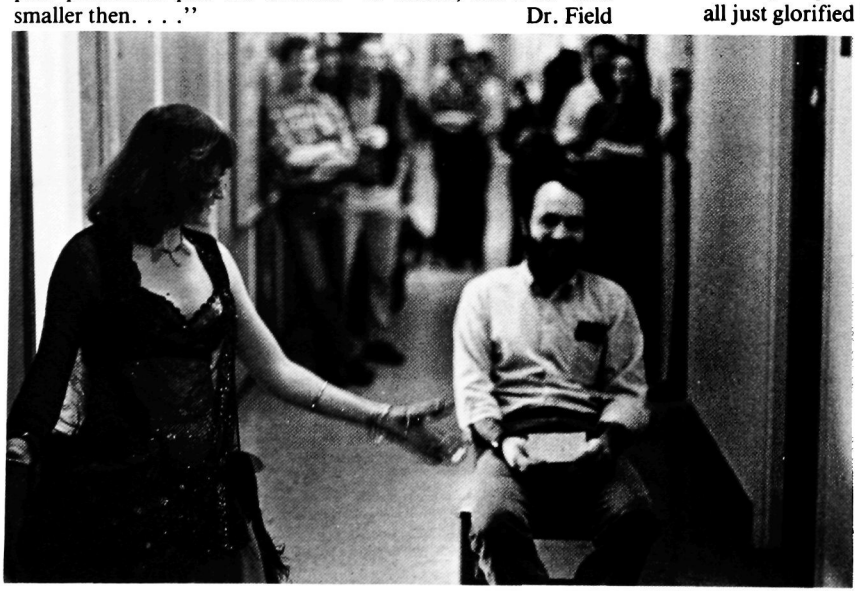
"We are the epitome of loveableness." Dr. Brann

"What I am about to tell you does not make sense.
Dr. Corcoran

"Pretty muchly." Dr. Field

"If you were a self-respecting spore, what would you do for a living?" Dr. Campana

"If they stop using the stuff (wood) as structural material we're all just glorified botanists." Dr. Shottafer



Happy is the man who can laugh at himself, he will never cease to be amused.