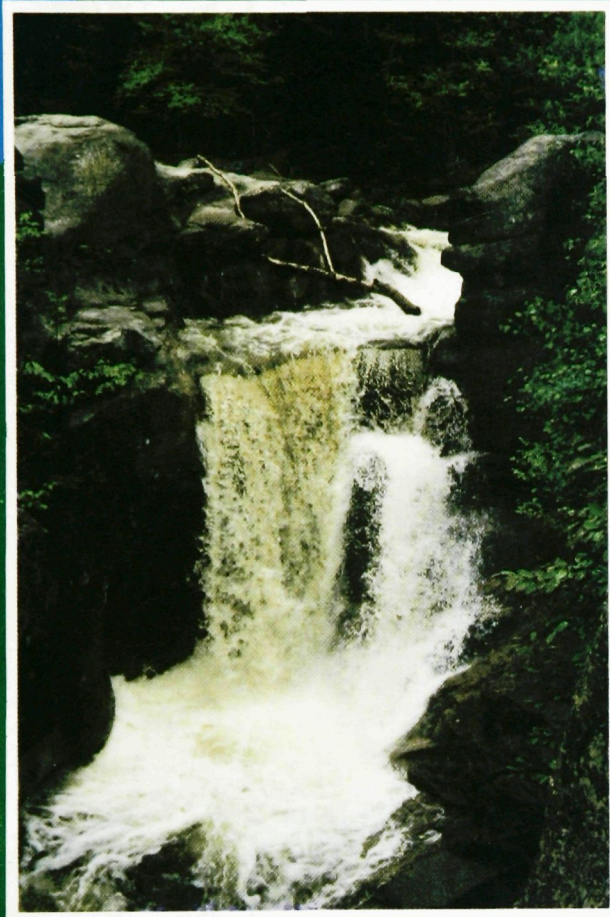


THE MAINE



FORESTER
1990

TAKING FOREST RESOURCES TECHNOLOGY INTO THE 1990'S



Published Annually by
The Students of the
COLLEGE OF FOREST RESOURCES
University of Maine

DEDICATION



Dick Hale, Associate Professor of Wood Technology joined the staff of the School of Forest Resources in 1966. Dick attended Phillips Andover Academy and continued on to receive his B.S. from the University of Maine, with time out to serve as a First Lieutenant in the Armored Infantry in World War II. After receiving his M.F. Degree from Yale in 1948, Dick entered the logging and saw mill business in Maine.

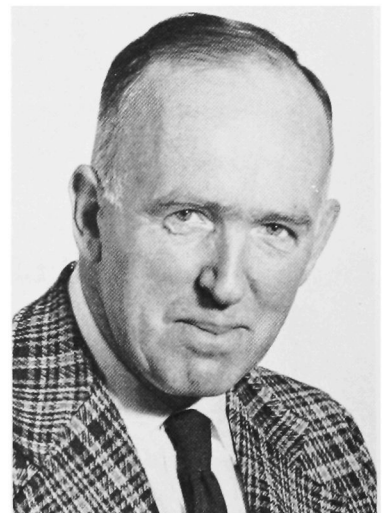
During the years he owned and operated his business, Dick became an expert with the equipment and machines used for timber processing. Following this interest, he became a full time forestry and wood processing consultant in 1958. Many of the innovations and improvements he introduced into Maine mills during these years may still be seen in use today.

Since joining the faculty of the College, professor Hale has taught courses which emphasize the processing, treatment and drying of forest products. While much of his research has reflected his knowledge of our forest resources, he has participated in a host of projects ranging from the marketing of Maine lumber to forest tree improvement. He has been particularly active in the Forest Products Research Society and the New England Kiln Drying Association. No member of the College teaching faculty has devoted more time to the pressing needs of the forest products industry of Maine. No one ever asked what the intent of Dick Hale's research was; the problems were real and the application direct and immediate. Throughout the years, Dick's devotion to the quality of his courses and the professional lives of his students has never faltered. The success of his students, who have served the industry throughout the nation and much of the world, reveal his accomplishments as a teacher and advisor.

Dick has served the college, its students, and the faculty well beyond the time when most faculty retire. His regular participation in the life of the college will be sorely missed.

On the other hand, he talks of consulting opportunities with his colleagues, and his constituents in industry continue to press him for assistance and advice.

Is the past prologue?



GREETINGS FROM THE DEANS

The theme of the 1990 *Maine Forester* requires all of us to take a close look at what we are doing now then use a crystal ball to make a judgement about our expectations for the new decade. This is an interesting and difficult task requiring that we use our imaginations while utilizing the tremendous amount of data available to us to make judgements. We know that natural resources and the environment will receive much attention during the 1990's. Will we as natural resource managers be up to the challenge?

The faculty, staff and students of the College are all involved in attempting to solve resource problems and have received the message of good stewardship in their course work. We hope that every graduate of the Class of 1990 will leave the University committed to the improvement of our environment and the goal of world peace.

As we look forward to the decade of the nineties, we might benefit by a look back at the past decade. Our College of Forest Resources has made significant progress. At the start of the 1980's we were not a College, thus the most significant change came in 1982 when the College was established. Dean Gregory Brown was appointed in 1983 and lead the College with great skill for the next three years. We expanded significantly during those years and added some very fine faculty to the College. The last half of the decade were years of economic expansion and jobs were plentiful for our graduates. The College added several new graduate degrees and student numbers began to increase, especially in the Parks, Recreation and Tourism program.

On the State and national scene, the environmental problems began to receive more and more attention as the decade progressed. We commenced in-depth research on the problem of atmospheric pollution and demanded a reduction in the amount of pollutants in our air. We began to recognize the severe problems that could affect our environment by the loss of ozone in the highest levels of our atmosphere. We came to recognize more clearly the long-term effects of global climate changes and heard predictions of severe losses of our natural resources as a likely result. We became more and more concerned about the environmental problems associated with solid waste disposal and began to pay more attention to removal of toxic materials, plastics, and in recycling. Sometimes these very challenging massive problems make us lose sight of our more common responsibilities for high-quality stewardship and management.

The College has been in an unusually stable situation during this academic year. The faculty has had no one leave and has added no new members. However, as the year comes to an end, two of our faculty will retire. Dr. Benjamin Hoffman will retire at the end of the academic year (May 31) and Professor Richard Hale will leave on June 30. We are beginning the process to obtain replacements for both of them. At the moment, positions are not being filled but we expect to be moving ahead on at least one of these positions by the time this yearbook goes to press.

A visiting team of scientists appointed by the Cooperative State Research Service of the U.S. Department of Agriculture reviewed the research programs of the College during the spring of 1989. This was coupled with a review of the graduate degree programs in forestry and wildlife. The team's research report was complimentary about many aspects of our research including overall productivity, but had some specific comments on areas the team viewed as needing improvement. The reports of the reviewers of the graduate programs were very positive. The undergraduate program in Wildlife Management was also reviewed in 1989 and received high praise from the outside reviewer.

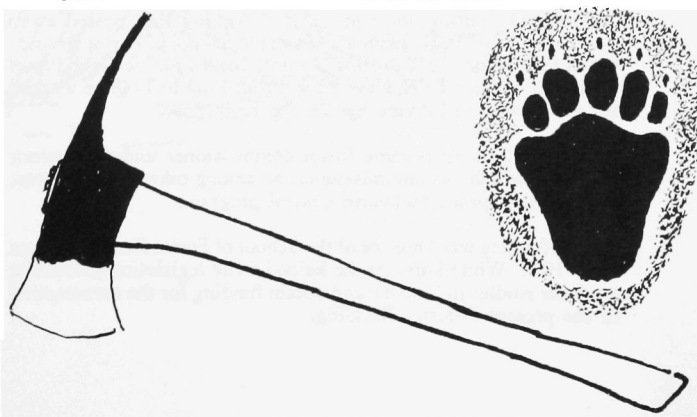
We were provided additional space in ANNEX B located behind the USDA Building. The program in Parks, Recreation and Tourism has been moved into this building. This temporary structure was extensively renovated and the spaces are ample for the program. The move has provided some additional space for the people in Nutting Hall, especially for our graduate students. We are hopeful that a second building will be provided within the next two or three years.

The end of this academic year finds us all scrambling to find ways to reduce expenditures. Income has not met the State's expectations and those receiving State funds are expected to reduce their budgets. We will be able to do so by careful management over the next few years but will be less active in some areas. We will not reduce our emphasis on students and will continue to provide all courses as scheduled in the past. Other states are having similar and often worse problems so continue your efforts in recruiting. Our programs will continue to be superior to the others in the region.

Each of you who graduate in 1990 will have the environmental problems discussed earlier as responsibilities in your jobs. We know you are well prepared to do what is needed in your special area to reduce the impacts on our precious resources. You have demonstrated your skills in many ways and are ready for the future. Jobs may be slightly more difficult to locate in 1990 because of the weakened economy. However, your job is out there and you must be more persistent, more patient, and must work harder to find it. We hope you will leave here with a strong sense of affection for the University and especially for your College. Our wish for you is a lifetime of success in a world where freedom and peace are common characteristics.

Fred B. Knight
Dean

Katherine L. Weber
Assistant Dean





ALBERT D. NUTTING

Albert D. Nutting, the namesake of Nutting Hall passed away on January 7, 1990. He graduated from the School of Forest Resources in 1927. From 1927 to 1931 Nutting worked for the Finch Pruyn Paper Co. in Glen Falls, New York. From 1931 to 1948 he worked for the Extension Service here at the University.

In 1948 Nutting became forest commissioner under Governor Horace Hildreth. As commissioner, he among other contributions, initiated the spruce budworm control program.

A.D. Nutting was Director of the School of Forest Resources from 1958-1971. While Director, he helped write legislation promoting graduate studies in forestry and obtain funding for the construction of the present Forestry Building.

Nutting was holder of the Black Bear Award given to alumni for outstanding service to the institution. In 1987 he was given an honorary doctorate from the University of Maine. He was former director of the Baxter State Park Authority and The State Parks and Recreation Commission. He received numerous awards on the state, regional, and national levels. He was also a 30-year member of the Bridgeton Academy Board of Trustees.

The students, faculty, staff and alumni will always remember Mr. Nutting for his endless dedication and numerous contributions over the years to the forestry profession. He will be sorely missed.

FACULTY





DR. BENJAMIN F. HOFFMAN, JR.

At the end of this academic year Dr. Benjamin F. Hoffman, Jr. will retire from the University of Maine. Dr. Hoffman has been on the faculty of the College of Forest Resources since 1977. He is a Professor of Forest Resources and Forest Engineering, specializing in timber management, and timber harvesting.

Dr. Hoffman received his B.A. degree from the University of Virginia in 1951, and his M.F. degree in Forest Management from Yale University in 1957. Dr. Hoffman also received his M.Phil. degree in Silviculture from Yale University in 1981, and his Ph.D degree in Harvesting and Timber Management in 1982.

Dr. Hoffman is a Registered Professional Forester, and Registered Land Surveyor. He is a member of the Society of American Foresters. From 1982 until present he served on the Board of Directors of the Northeastern Loggers' Association. Dr. Hoffman has served and been a member of many other Professional organizations.

Some of his non-Academic Professional experiences have been Chief, State Land Management for Vermont from 1971-1977. He also managed a hardwood veneer mill from 1965-1967.

In the past eight years he has had 44 publications, and at the present time he is writing a text book on Harvesting. In 1978-79 Dr. Hoffman received the Distinguished Professor award of Forest Resources.

Mr. Hoffman has been a positive influence on the students of the College of Forest Resources. His presence will be missed, we wish him luck in the future.

ADMINISTRATION



FRED B. KNIGHT

Dean

*Associate Director of MAES
Dwight B. Demeritt Professor of Forestry
Cooperating Professor of Entomology
B.S., University of Maine,
Forestry, 1949
M.F., Duke University, Forest
Entomology, 1950
D.F., Duke University, Forest
Entomology
and Forest Mensuration, 1956*



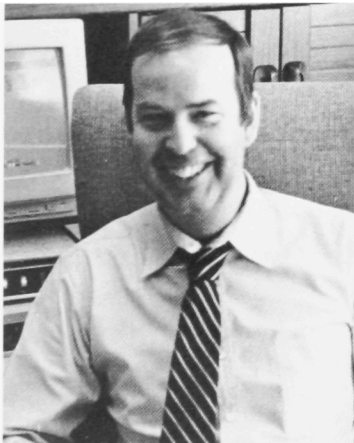
KATHERINE L. WEBER

Acting Assistant Dean

Assistant to the Dean

for Administration

*B.S., University of Rhode Island
Natural Resource Management 1976
(Forestry & Wildlife)
M.S., University of Rhode Island
Community Planning 1987
(Environmental Planning)*



CHRISTOPHER W. MURDOCH

*Coordinator for Professional
Development*

*B.S., University of Maine, Forest
Management, 1973
M.F.S., Yale University, Forest
Pathology, 1975
Ph.D., University of Maine, Plant
Sciences 1981
Forest Pathology*



JANICE L. GIFFORD

Assistant to the Dean

for Finance

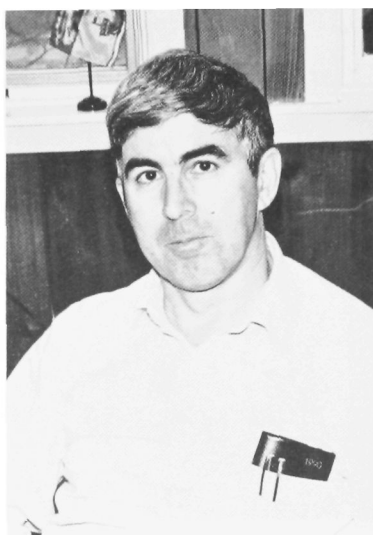
*A.S. ICS Center of Degree Studies
Business Administration 1986*

FOREST MANAGEMENT



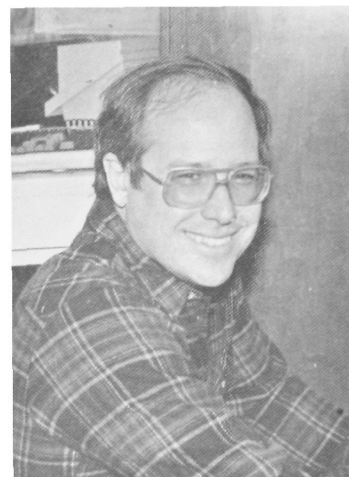
THOMAS J. CORCORAN

*Chair, Dept. of Forest Management
Professor of Forest Resources
Professor and Co-Administrator of
Forest Engineering
B.S.F., Mich., Technological
University, Forestry, 1955
M.S.F., Purdue University,
Forestry, 1962
Ph.D., Purdue University, Economics,
Industrial Engineering, Statistics, 1962
Engineering Economics*



DAVID B. FIELD

*Edwin L. Giddings Professor
of Forest Policy
Professor of Forest Resources
B.S., University of Maine, Forestry, 1963
M.S., University of Maine, Forestry, 1968
Ph.D. Purdue University, Forest
Economics, 1974
Forest Policy*



THOMAS B. BRANN

*Professor of Forest Resources
and Engineering
B.S., University of New Hampshire,
Forest Management, 1969
M.S., University of New Hampshire,
Forest Management, 1974
Ph.D., Virginia Polytechnic Institute
and
State University, Forest Biometry, 1979
Statistics and Computer Applications
to Forestry*



RICHARD A. HALE

*Associate Professor of Wood Technology
B.S., University of Maine, Forestry, 1947
M.F., Yale University, Forestry, 1948
Primary Wood Processing*



JAMES E. SHOTTAFAER

*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*

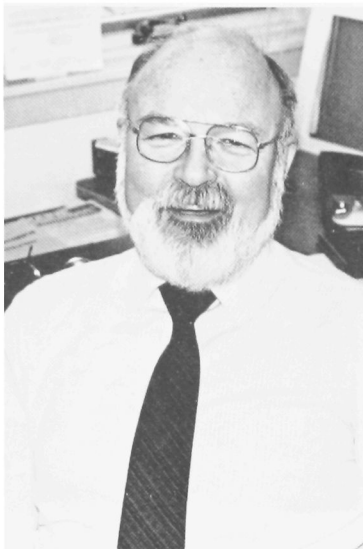


FOREST MANAGEMENT



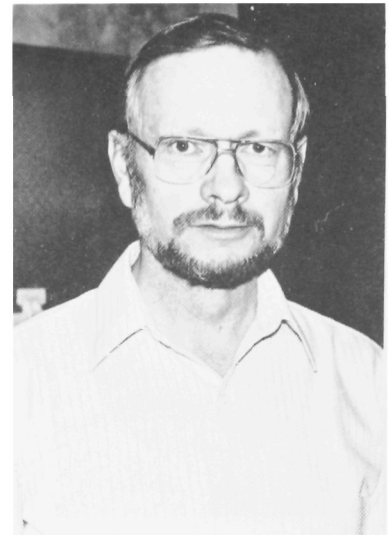
BENJAMIN F. HOFFMAN, JR.

*Professor of Forest Resources
B.A., University of Virginia, 1951
M.F., Yale University, Forest
Management, 1957
M.Phil., Yale University,
Silviculture, 1981
Ph.D., Yale University, Harvesting, 1982
Timber Management*



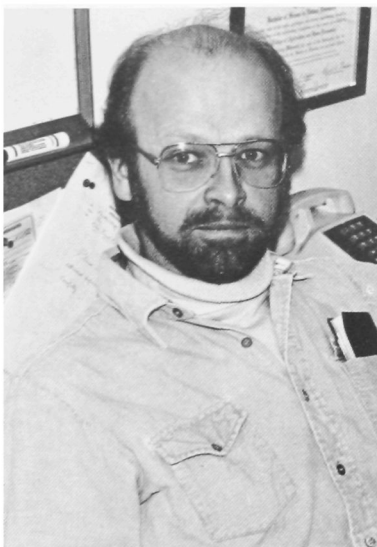
ROBERT B. FORSTER

*Assistant Professor of Forest Resources
and Canadian Studies
B.S., Michigan State University,
Forest Management 1961
M.S., Michigan State University,
Forest Economics 1963
Ph.D., Purdue University, Forest
Economics 1967*



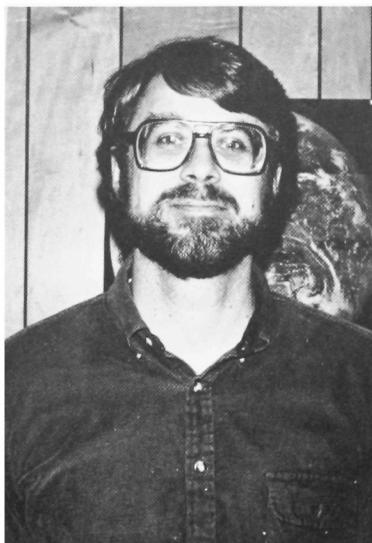
ROBERT K. SHEPARD, JR.

*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*



ROBERT S. SEYMOUR

*Curtis Hutchins Associate
Professor of Forest Resources
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*



STEVEN A. SADER

*Associate Professor of Forest Resources
B.S., Northern Arizona University,
Forest Resource Management
M.S., Mississippi State University
Ph.D., University of Idaho*



J. LOUIS MORIN

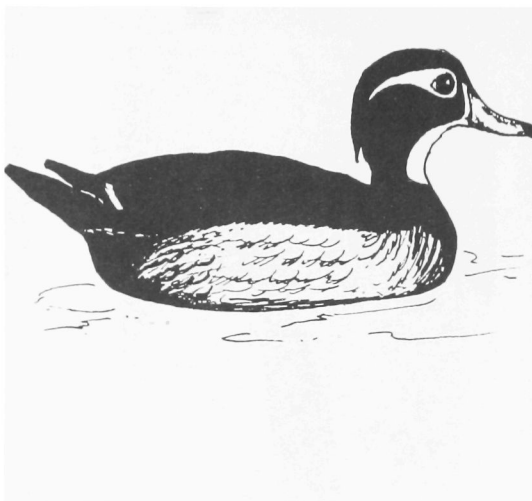
*Instructor, Forest Resources
B.S., University of Maine,
Forest Management, 1976
M.S., University of Maine,
Forestry, 1978
Photo Interpretation and Remote Sensing*

FOREST BIOLOGY



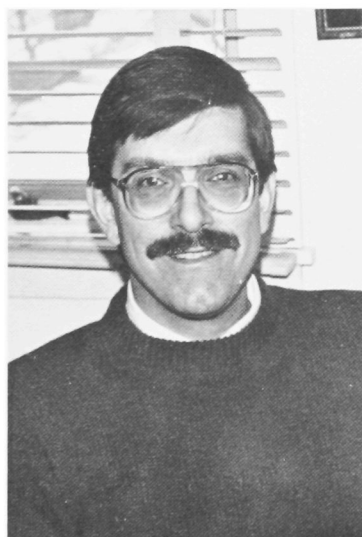
MICHAEL S. GREENWOOD

*Chairman, Department of Forest Biology
Ruth Hutchins Professor of
Tree Physiology
Professor of Forest Resources
B.A., Brown University, Botany, 1963
M.F., Yale University, 1969
Tree Physiology*



BARRY S. GOODELL

*Assistant Professor of Wood Technology
B.S., University of New Hampshire,
Botany and Plant Pathology, 1976
M.S., Oregon State University,
Forest Products, 1980
Ph.D., Oregon State University,
Forest Products, 1983
Wood Science and Technology*



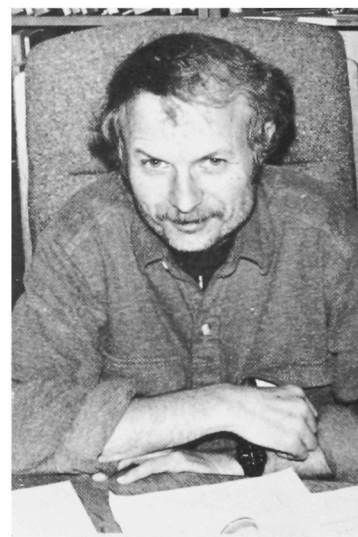
ALAN S. WHITE

*H. W. Saunders Associate Professor of
Forest Resources
B.A., Williams College, 1973
M.S., University of Montana, 1976
Ph.D., University of Minnesota, 1981
Forest Ecology/Silviculture*



KATHERINE K. CARTER

*Assistant Professor of Forest Resources
B.S., Central Missouri State University,
Biology, 1974
M.F., Duke University, Forestry, 1978
Ph.D., West Virginia University, Forest
Genetics, 1980
Forest Tree Improvement*



RICHARD JAGELS

*Associate Professor of Wood Technology
B.S., Syracuse University,
Wood Anatomy, 1962
M.S., Syracuse University, Forest
Pathology, 1965
Ph.D., University of Illinois, Structural
Botany, 1968
Wood Anatomy*

RECREATION, PARKS, AND TOURISM PROGRAM



PAUL H. RISK

*Associate Professor of Forest Resources
B.A., California State College at Los Angeles,
Botany and Biological Sciences, 1966
M.S., University of California at Davis,
Entomology, 1969
Ph.D., Michigan State University
Wildlife Biology, 1976
Environmental Interpretation*



FLOYD L. NEWBY

*Professor of Forest Resources
B.S., Utah State University,
Forestry, 1964
M.S., University of Michigan,
Forest Recreation, 1966
Ph.D., University of Michigan,
Forestry, 1971
Forest Recreation, Recreation and
Park Management*



HARRY ZINN

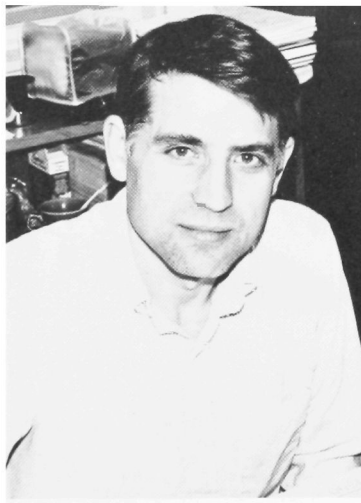
*Instructor of Forest Recreation
B.A. Middlebury College
English, 1970
M.S. Parks, Recreation & Tourism, 1989*

THE COOPERATIVE FORESTRY RESEARCH UNIT



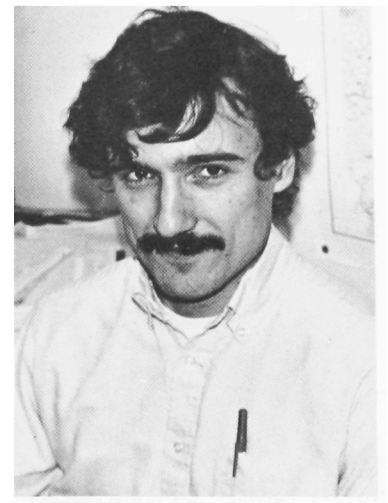
MAXWELL L. McCORMACK, JR.
Research Professor

*Cooperative Forestry Research Unit
B.S., University of Maine, Forestry, 1956
M.F., Duke University, Silviculture, 1959
D.F., Duke University, Silvics, 1963
Silviculture*



WILLIAM D. OSTROFSKY

*Assistant Research Professor,
Cooperative Forestry Research Unit
A.S., University of New Hampshire,
Forestry, 1970
B.S., University of New Hampshire,
Forestry, 1973
M.S., Oregon State University, Botany
and Plant Pathology, 1975
Ph.D., University of New Hampshire,
Botany and Plant Pathology, 1982
Forest Pathology*



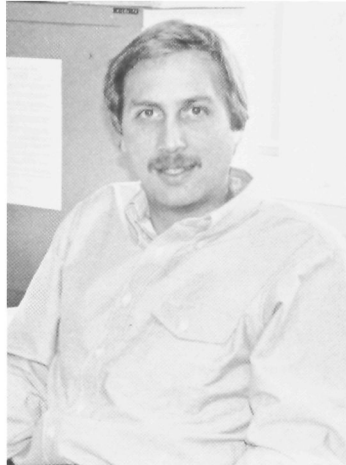
RUSSELL D. BRIGGS

*Assistant Research Professor,
Cooperative Forestry Research Unit
A.A.S., SUNY College of Environmental
Science and Forestry, Forest
Technology, 1975
B.S., SUNY College of Environmental
Science and Forestry,
Forest Biology, 1979
M.S., SUNY College of Environmental
Science and Forestry,
Silviculture and Forest Biometry, 1982
Ph.D., SUNY College of Environmental
Science and Forestry,
Silviculture and Forest Soils, 1985
Forest Soils*



JAMES R. GILBERT

Associate Professor of Wildlife Resources
B.S., Colorado State University, Wildlife
Biology, 1968
M.S., University of Minnesota, Ecology, 1970
Ph.D., University of Idaho, Wildlife
Science, 1974
Population Dynamics



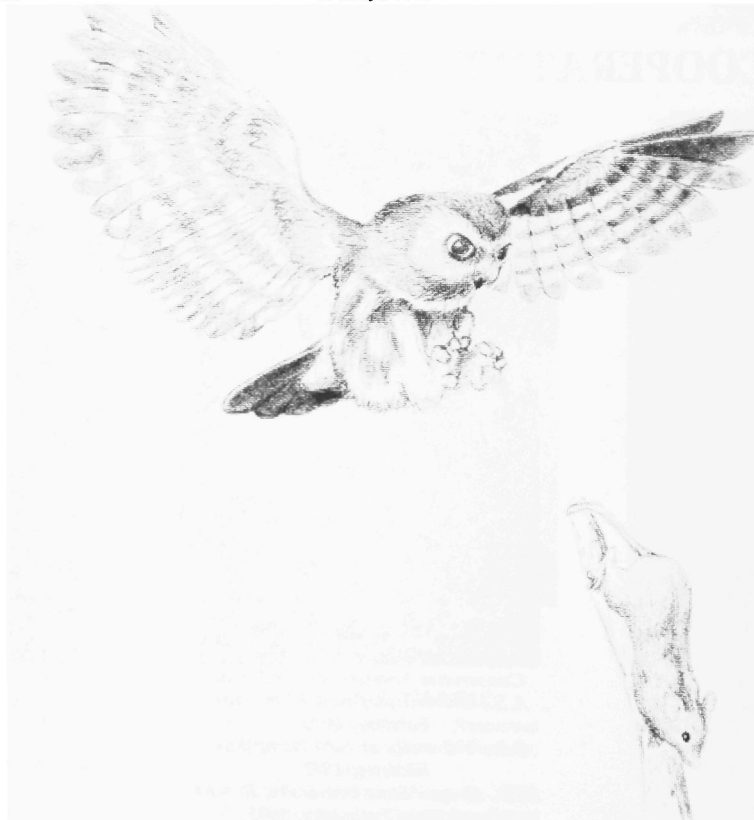
DANIEL J. HARRISON

Associate Professor of Wildlife
B.S., University of Wyoming,
Wildlife Management 1980
M.S., University of Maine, Wildlife
Management 1982
Ph.D., University of Maine,
Wildlife 1985

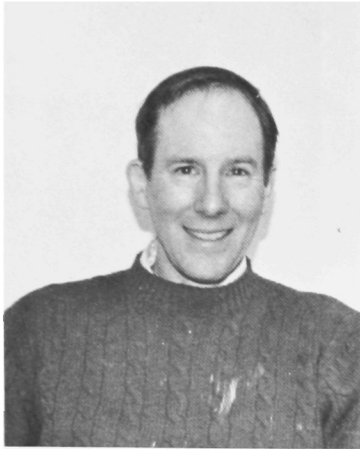


MALCOLM L. HUNTER

Associate Professor of Wildlife Resources
B.S., University of Maine,
Wildlife Science, 1974
D. Phil., Oxford University, Zoology,
1978
Wildlife Ecology

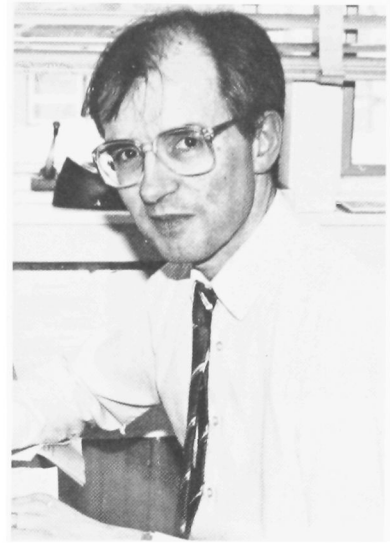


WILDLIFE



RAY B. OWEN, JR.

*Chairman, Department of Wildlife
Professor of Wildlife Resources
B.A., Bowdoin College, Biology, 1959
M.S., University of Illinois,
Ecology, 1966
Ph.D., University of Illinois,
Ecology, 1968
Wildlife Ecology*



RAYMOND J. O'CONNOR

*Associate Professor of Wildlife
B.Sc., University College, Physics
and Mathematics
Ph.D., Edward Grey Institute for
Field Ornithology at Oxford,
Growth and Development of
Nestling Birds*



D. BRAD GRIFFITH

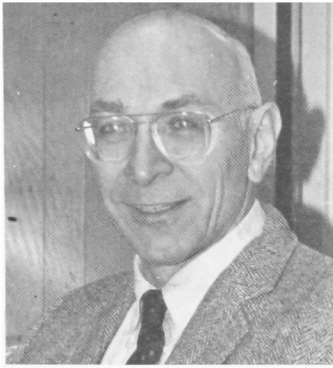
*Assistant Professor of Wildlife Resources
B.A., University of Missouri, Zoology, 1969
M.S., Oregon State University, Wildlife Science, 1977
Ph.D., University of Idaho, Wildlife Resources, 1988*



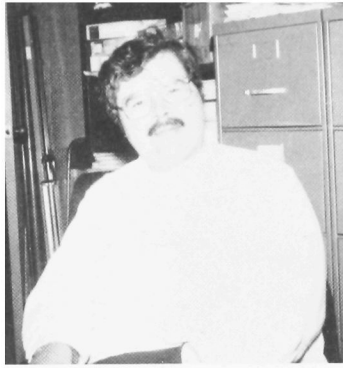
FREDERICK SERVELLO

*Assistant Professor of Wildlife
B.S., SUNY College of Environmental Science
and Forestry, Forest Biology, 1979
M.S., Virginia Polytechnic Institute and State
University, Wildlife Management, 1981
Ph.D., Virginia Polytechnic Institute and State
University, Wildlife Management, 1985*

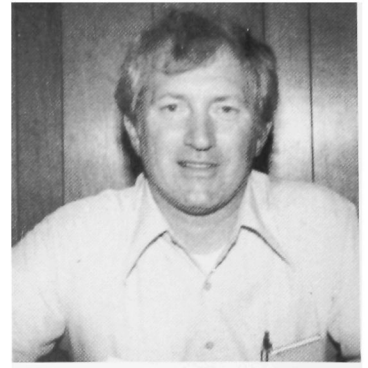
COOPERATIVE EXTENSION SERVICE



BUD BLUMENSTOCK



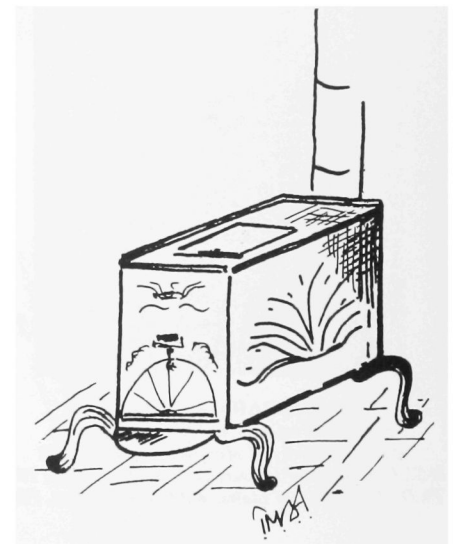
WILLIAM LILLEY



JAMES PHILIP



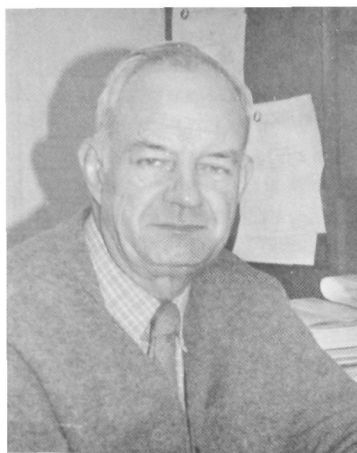
CATHERINE ELLIOTT



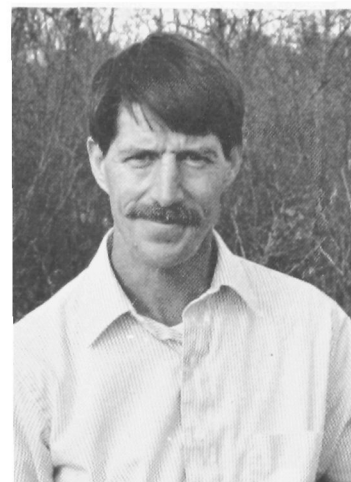
COOPERATING FACULTY



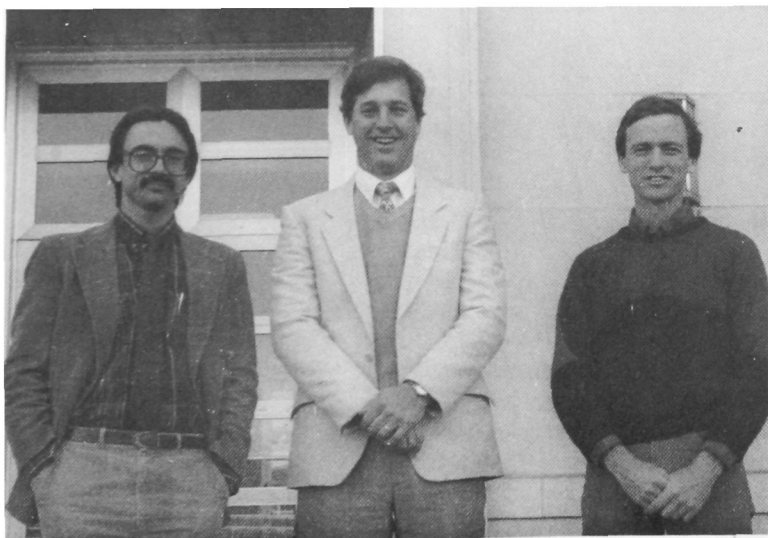
JOHN B. DIMOND
Professor of Entomology



HAROLD GIBBS
*Professor of Animal
and Veterinary Sciences
and Wildlife Resources*



CHRISTOPHER CAMPBELL
*Associate Professor of
Plant Systematics*



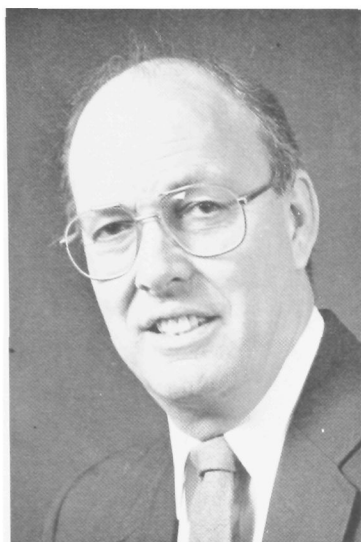
IVAN FERNANDEZ
Assistant Professor of Soil Science

WILLIAM LIVINGSTON
Assistant Professor of Forest Pathology

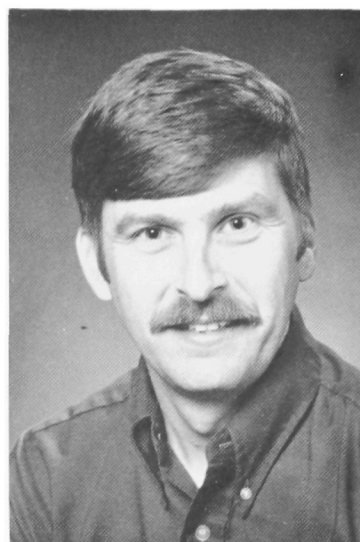
WILLIAM MITCHELL
Associate Professor of Landscape Architecture



WILLIAM B. KROHN
*Leader, Maine Cooperative Fish and
Wildlife Research Unit
B.S., University of Alaska,
Wildlife Management, 1968
M.S., University of Maine, Wildlife
Management, 1969
Ph.D., University of Idaho, Wildlife
Science, 1977
Migratory Birds*



HAYDEN SOULE, JR.
*Associate Professor of
 Agriculture and Engineering*



THOMAS CHRISTENSEN
*Associate Professor
 of Agriculture and Engineering*



NORMAN SMITH
Dean, Engineering and Science



WARREN HEDSTROM
*Associate Professor of
 Forest Engineering*



JODY JELLISON GOODELL
*Assistant Research Professor
 B.S., University of New Hampshire,
 Botany, 1977
 M.S., Oregon State University,
 Botany and Plant Pathology, 1980
 Ph.D., Oregon State University,
 Plant Virology, 1983
 Biodegradation of Wood*