A man of eighty, planting!
To build at such an age might be no harm,
Argued three youngsters from a neighboring farm,
But to plant trees! th' old boy was plainly wanting,
"For what in Heaven's name," said one of them,
"Can possibly reward your pains,
Unless you live to be Methusalem?
Why tax what little of your life remains,
To serve a future you will never see?"

"Is it so?" said he

"My children's children, when my trees are grown,
Will bless me for their kindly shade:
What then? has any law forbade
The Wise to toil for pleasure not his own?
To picture theirs is my reward to-day,
Perhaps tomorrow also: who shall say?"

JEAN DE LA FONTAINE
1621-1695
Greetings from the Director

Congratulation to the Class of 1981; you have completed the first step in your professional careers. I wish you all the greatest success in the endeavors you may pursue during the years ahead. You have worked hard to reach this point and your class has accomplished many good things. I am especially grateful for the fine spirit and cohesiveness I have seen. I hope your efforts in working together to make our school a pleasant place in which to work will have a continued effect on the students who will follow.

Our review of 1980 reveals a number of important milestones in our School and University. Perhaps the most significant has been the appointment of a new president. We all welcome President Silverman and though the Class of 1981 will only know him for one year I'm sure they will leave with the feeling that our University is in good hands. President Silverman has visited Nutting Hall and I'm sure he is impressed with the fine students he has met in our School.

We were very fortunate during the fall of 1980 to have Dr. John McGuire, recently retired Chief of the United States Forest Service, visit us for two weeks. John was eager to meet with as many students as possible during his visit. We kept him busy with a full schedule of classes. We appreciate having the funds from the Kenduskeag Foundation to support visits such as his through our distinguished lecture series. You made Dr. McGuire feel he was welcomed; I thank you for the spontaneous reaction to his visit.

I am impressed with the way in which students in the School are doing things for the betterment of future classes. This impression comes to me through contacts in classes such as I have received during my visits to the Fy 60 sections as well as from individual contacts. This year some of our student leaders are attempting to set up an endowment to provide funds for the benefit of student organizations. They realize that this will take time before earnings will be significant but they know that future needs must be met and they feel some of these funds must come from their contributed resources. We now need a source of base funding to get this endowment started. I hope that we can accomplish this goal before the end of the year.

We regretfully said good-bye to two fine faculty members during the year. Dr. David Canavera was hired by WesVaCo to head up their Forest Genetics research program; Dave is based in South Carolina. Prof. Charlie Williams has been a fine teacher in our two year program and our fire expert. Charlie is now with Weyerhaeuser Co. in North Carolina. We miss them both but realize their need to respond to opportunities presented to them.

We welcomed Dr. Timothy O'Keefe as Associate Professor of Wood Technology filling the position vacated by Dr. Craig Shuler in 1979. We have also completed our search for a replacement for Dave Canavera and on January 1, 1981, Assistant Professor Katherine Carter became the first woman on the faculty of the School. The entire student body and faculty welcome these new members of our staff.

I believe that the 1981 class of professional foresters, wildlife managers, forest engineers, wood scientists and recreation specialists includes many persons who will be leaders in the resource professions in the years ahead. I know you are all aware that you have just started to learn about your professions. You have the basic tools to work with and now need only to keep active in developing your proven abilities. I wish you the greatest success during the coming years; the challenges are great and you can do the job. Good luck and God Bless You!

Sincerely yours,

FRED B. KNIGHT
DIRECTOR
Welcome,  
President Silverman

The students, faculty and staff of the School of Forest Resources would like to welcome President Paul H. Silverman to UMO and the state of Maine. We look forward to a good relationship with you in the coming years. Also, we sincerely hope that with your many commitments you will have time to enjoy the forests, fields and coast of Maine that are the very heart of our lives and of this school. We're glad you are here to share them with us.
We are pleased to dedicate the 1981 *Maine Forester* to Mr. Morris Wing of Farmington, Maine. Mr. Wing has led a professional life that has been, and is, an example of the best characteristics of a dedicated professional. He has made good use of his own abilities in bringing attention to the forests of Maine.

Mr. Wing graduated from Maine’s Forestry School in 1942. Since that time he has been an active professional and through the years has made valuable contributions toward cooperative forestry relationships between state and private land managers. He worked thirty years for International Paper Company and as a forest manager really knew and understood the lands and people he was responsible for. He took charge whenever problems were evident whether it be spruce budworm, forest fires or problems of concern to individual woodcutters.

His work in professional forestry extended outside of the company for which he worked. He was a charter member of the Maine Tree Farm Committee and served that group for 20 years. He was an active member of the Society of American Foresters and was Chairman of the New England Section in 1968–69. In 1976 Mr. Wing was the first industrial forester to receive the New England Section’s Distinguished Service Award. He was also very active in the community, including the development of vocational forestry programs in several Maine high schools; this was recognized by the Distinguished Service Award he received from the University of Maine at Farmington in 1977.

Mr. Wing has always been a strong and active supporter of the School of Forest Resources. He was one of the first members of the Forest Resources Research Advisory Committee appointed by President Neville and his initiative was an important factor in developing the Cooperative Forestry Research Unit. The first check received ($50,000) came from International Paper Co. and was brought directly to Director Knight by Mr. Wing to get the organization started. He served as chairman of the advisory committee during his last two years on the board. He has always been ready to help; for example, his efforts have resulted in the paper provided by I.P for the Maine Forester in recent years.

Morris as a personality is a great story teller and could hold an audience enthralled in a field camp after a hard day’s work. He also loves horses and knows how to work with them, in the woods or on a race track. He has raced horses for many years; now that he is retired, this hobby is receiving more of his attention. We wish him luck and many winners during the years ahead. We miss his leadership in professional affairs, but at the same time envy the enjoyment we know he will gain from having time to work with his animals.

For his contributions to the forestry community, continuous support, and the example he gives as a dedicated professional, the faculty and alumni of the School of Forest Resources give recognition as distinguished alumni, and the students dedicate the 1981 *Maine Forester*, to Mr. Morris Wing.
The following is a brief account of Morris Wing's relationship to the forest, and of the development of his career. It will introduce the reader to Mr. Wing, and illustrate not only the evolution of one man's profession, but of the forestry profession in general. There is a valuable lesson here for those of us who are impatient for success, comfort and wealth quickly after graduation. Most of the italicized words are quotes by Mr. Wing as printed in an interview by Lynn Franklin for the Maine Sunday Telegram of Feb. 10, 1974. Those describing work with International Paper Co. are taken from historical notes provided by that company. Many thanks go to Mrs. Elaine Wing, Paula Broydrick, Austin Wilkins, Bob Fiske, George Carlisle, and everyone else who assisted in the writing of this article.

Morris Wing was born in 1919 in Bingham, Maine, a descendant of 5 generations of Maine woodworkers. He and his 5 brothers and sisters grew up on a small farm, but his father's main occupation was logging, and they all worked with him. Morris first worked in the woods at the age of 10. At this time bark was being removed from pulpwood by hand ("sap-peeled"), and Morris's job was to remove the bark once the felled tree had been limbed out.

I thought I could keep up with them, but I soon found I couldn't. . . I chased those choppers all summer long; never did catch 'em, but I took a lot of bark off a lot of trees.

The following two summers Morris's work was twitching with a little black horse of the family's. That was when he first realized an affection for horses that lasts to this day. His father taught him the care of a horse, and how to harness a team. . . in those days of the woods hooking a team right was part of our profession.

The next summer, Morris became a "chopper"; axes were the only tool used then. The fellows working on the job was good woodsmen, good choppers. They was highly skilled men. All could file their own saws, hang their own axes properly.

It was a disgrace to work with dull tools or to hang a tree so it did not come to the ground, got caught in another tree. A tree was to be properly felled without damaging a lot of other trees. This was the most important of many high standards those woodsmen lived up to. They protected the young growth.

Morris and Ralph Wing at Augusta Lumber Company's office camp, 1938.
We had no hydraulic loaders of any kind, all hand tools. Logs were loaded onto sleds with cant logs, by hand.

In the spring he went on the drive down the Austin stream to the mill. It was dangerous because the ice had just gone out of the river, the water was cold and we were out on the water riding and pushing the logs. If you fell in, there was real danger of your getting drowned. We were wearing caulked boots and you can't swim much with them on. I had an uncle drowned on the drive that spring. We were never sure how it happened, whether he was swept in by a log or not.

It was rugged, we got wet a lot, and the company fed us four meals a day: 5 a.m. breakfast, about 10 a.m. the cooks would bring lunch to wherever we was working, at 2:30 they'd bring another lunch to the job and we'd eat the last meal at camp that night.

You can be sure there was no booze in camp, although there was an occasional card game. There were usually fellows who could sing pretty good and play harmonicas and other musical instruments. They could sing ballads beautifully, such as "The Jam of Gerry's Rock".

There were places that jammed regular and we kept a dynamite shack and a man there to set the charge. That man had to know how to use the dynamite and know how to get out of the jam before the charge went off. There was no room for a mistake. It was common practice, everybody did it.

The fall of 1938 Morris Wing entered the School of Forestry at the University of Maine at Orono. While there he was a member of Xi Sigma Pi and the Forestry Club. Morris attended winter camp for six weeks in December and January of 1941, and was putting up storm windows when news of Pearl Harbor arrived. He graduated cum laude with a B.S. in Forestry in 1942, and that summer hired out as a guide for The Birches on Moosehead Lake.

In 1948 Mr. Wing became one of the two Farm Foresters in the state for the Maine Forest Service, the equivalent of the current service forester position. The starting salary was $48.00 per week. His potential was soon recognized, and in October of 1950 he was hired by Roy Hendricks of International Paper Company as Superintendent of the Ashland District; he held this position until 1954.
A friend felt that these words from the Reverend Titus Oates of Camden, and again from *Ten Million Acres of Timber* by Austin Wilkins, best characterize Morris Wing:

> Learn to see beneath the bark of trees
> Learn to see beneath the rough exterior of people
> Beneath there is something fine, beautiful and useful.

During this time I.P. operations in Aroostook County involved about 30,000-40,000 sap-peeled cords annually. The pulpwood was loaded manually into trucks and then into boxcars to ship to Livermore Falls.

In the early 50's pulpwood was mostly horse-yarded, and logging depended almost entirely on winter roads for trucking. The first bulldozed roads appeared in 1952, and by 1954 there were 10-wheelers on the roads.

Another newcomer in 1952 was the chainsaw; prior to this most work was done with a bucksaw. *The early saws were very heavy and suffered frequent breakdowns which meant the crew had to take the saw to Fort Kent to be repaired, and before the saws were repaired, the crew was drunk, and the end result was that no foreman wanted to see a crew appear with a chainsaw. However, two years later, the chainsaw was firmly entrenched in northern Maine and bucksaws were nearly all out of the woods.*

In 1974 Mr. Wing was promoted to Assistant Resident Manager for Maine. In 1955 he began the first formal Forest Management Plan for I.P. Co., involving 1,300,000 acres of land in Maine, New Hampshire, and Vermont. Mr. Wing became Regional Manager of the Maine Region, and held that position until 1979.

The forest industry saw many changes in that 19 year period: the new kraft pulp mill in 1965 signaled the end of sap-peeled wood production, articulated wheel skidders replaced all horse-yarding, hydraulic loaders replaced handloading, trucks got bigger and the distances travelled from the mill increased.

In 1979, Morris Wing was promoted to Projects Manager for the Northeast Region. He was responsible for managing and coordinating efforts to establish lumber mills in order to help assure highest utilizations of I.P.’s timber. Mr. Wing retired from International Paper Company in 1980 after 30 years of service.
He gives an order;  
His word flashes to Earth:  
to spread snow like a blanket,  
to strew hoarfrost like ashes,  
to drop ice like breadcrumbs,  
and when the cold is unbearable,  
He sends His word to bring the thaw  
and warm wind to melt the snow.

—Psalm 147: 15–18
Visiting lecturer,
John McGuire
former chief,
U.S. Forest Service
FRED B. KNIGHT  
Director of the School of Forest Resources
Dwight B. Demeritt Prof. of Forestry  
B.S., Univ. of Maine, 1949  
M.F., Duke Univ., 1950  
D.F., Duke Univ., 1956  
Management Problems  
Honors Courses

MARSHALL D. ASHLEY  
Assoc. Director for Administration  
Prof. of Forestry  
B.S., Univ. of Maine, 1965  
M.S., Purdue Univ., 1966  
Ph.D., Purdue Univ., 1969  
Photogrammetry and Remote Sensing of Natural Resources  
Forestry Summer Camp Director

THOMAS J. CORCORAN  
Prof. of Forest Economics  
B.S., Michigan Technological University, 1955  
M.S., Purdue Univ., 1960  
Ph.D., Purdue Univ., 1962  
Forest Economics  
Production Analysis in Forestry Planning and Control of Forest Operations  
Research in Forestry Economics

HAROLD E. YOUNG  
Prof. of Forestry  
M.F., Duke Univ., Biometrics, 1946  
B.S., Univ. of Maine, Forestry, 1937  
Ph.D., Duke Univ., Biometrics and Tree Physiology, 1948  
Complete Tree Institute

RALPH H. GRIFFIN  
Prof. of Forestry  
B.S., Virginia Polytechnic Institute, 1943  
M.F., Yale, 1947  
D.F., Duke, 1956  
Silvics-Forest Ecology  
Silviculture  
Advanced Silviculture  
Forest Influences
Floyd L. Newby  
Assoc. Prof. of Forestry  
B.S., Utah State Univ.  
M.S., Univ. of Michigan, Forest Recreation, 1966  
Ph.D., Univ. of Michigan, Forest Recreation, 1971  
Forest Recreation Management  
Introduction to Forest Resources Lab  
Recreation and Park Management  
Forest Policy and Administration

Robert Kent Shepard  
Assoc. Prof. of Forestry  
B.S., Univ. of Michigan, Forestry, 1963  
M.S., Duke Univ., Forest Entomology, 1964  
Ph.D., Univ. of Michigan, Forest Ecology, 1970  
Watershed Management  
Senior Seminar  
Statistical Inference in Forest Resources Lab

James E. Shottäfer  
Prof. of Wood Technology  
B.S., State Univ. of New York, 1954  
M.S., State Univ. of New York, 1956  
Ph.D., Michigan State Univ, 1964  
Analysis in Forest Utilization  
Wood Technology II  
Research Methods in Forest Utilization

Richard A. Hale  
Assoc. Prof. in Wood Technology  
B.S., Univ. of Maine, 1949  
M.F., Yale, 1950  
Primary Wood Processing  
Wood Preservation and Drying  
Senior Seminar

Wallace C. Robbins  
Assoc. Prof. of Forest Technology  
B.S., Univ. of Maine, 1954  
M.S., Univ. of New Brunswick, 1956  
Director-Two Year Program  
Two-Year Summer Camp  
Intro. to Forest Technology  
Aerial Photo Interpretation  
Wood Products Utilization  
Forest Protection  
Wood and Tree Identification

Benjamin F. Hoffman  
Assoc. Prof. of Forestry  
B.A., Univ. of Virginia, 1951  
M.S., Yale Univ.—Forestry, 1957  
Timber Management  
Harvesting of Forest Crops  
Senior Seminar
TIMOTHY G. O'KEEFE
Assoc. Prof. of Forestry
B.S., New York State Univ., Syracuse, 1955
M.S., New York State Univ., Syracuse, 1957
M.A., Northern Arizona Univ., 1973
Ph.D., Northern Arizona Univ., 1979
Forest Fire Control, Wood Technology

KATHERINE K. CARTER
Assist. Prof. of Forestry
B.S., Central Missouri State Univ., 1974
M.A., Duke Univ., 1976
M.F., Duke Univ., 1978
Ph.D., West Virginia Univ., Forest Genetics, 1980
Forest Planting, Forest Genetics

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B.S., SUNY Syracuse
Wood Anatomy
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Forest Pathology
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Wood Anatomy Research Techniques in Wood Anatomy Senior Seminar

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RONALD B. TEBBETTS
Instructor in Forest Resources
B.S., Louisiana State Univ., 1976
M.S., Univ. of Maine, 1980
Introduction to Forest Resources

THOMAS B. BRANN
Assist. Prof. of Forestry
B.S., Univ. of New Hampshire
M.S., Univ. of New Hampshire
Ph.D., Virginia Polytechnic Institute and State University
Statistical Inferences in Forest Resources
Forest Biometry
Forestry Summer Camp

JEAN-LOUIS MORIN
Instructor,
General Engineering and Forest Resources
B.S., Univ. of Maine, 1976
M.S., Univ. of Maine, Forest Remote Sensing, 1978
Elementary Plane Surveying
Advanced Plane Surveying
JAMES R. GILBERT
Assoc. Prof. of Wildlife
B.S., Colorado State Univ., 1968
M.S., Univ. of Minnesota, 1970
Ph.D., Univ. of Idaho, 1974
Principles of Wildlife Management
Senior Seminar
Biological Characteristics of Game Birds and Mammals

TERRY A. MAY
Assist. Prof. of Wildlife
M.S., Colorado State Univ., 1970
Ph.D., Univ. of Colorado, 1975
Biological Characteristics of Game Birds and Mammals
Director-Wildlife Summer Camp

RAY B. OWEN, JR.
Prof. of Wildlife
B.A., Bowdoin, 1959
M.S., Univ. of Illinois, 1966
Ph.D., Univ. of Illinois, 1968
Ecology
Senior Seminar
Ecological Energetics

MALCOLM L. HUNTER, JR.
Assist. Research Prof. of Wildlife
B.S., Univ. of Maine, 1974
D.Phil., Univ. of Oxford, Zoology, 1978

MARK McCOLLEAGH

CHESTER F. BANASIAK
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B.S., Michigan State University Forestry, 1948
M.S., University of Massachusetts Wildlife, 1952
Ph.D., University of Maine Forest Resources, 1974
RICHARD J. CAMPA NA  
Prof. of Botany and Forest Pathology  
Coop. Prof. of Forest Resources  
Univ. of Idaho, 1943  
M.F., Yale Univ., 1947  
Ph.D., Yale Univ., 1952

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Univ. of Idaho, 1943  
M.F., Yale Univ., 1947  
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HAROLD C. GIBBS  
Prof. of Animal and Veterinary Sciences  
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B.S., McGill, 1951  
M.S., McGill, 1956  
Ph.D., McGill, 1958

HAROLD C. GIBBS  
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M.S., McGill, 1956  
Ph.D., McGill, 1958

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M.S., St. Bonaventure Univ., 1963  
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M.S., St. Bonaventure Univ., 1963  
Ed.D., Univ. of Rochester, 1968

JOHN B. DIMOND  
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B.S., Rhode Island, 1951  
M.S., Rhode Island, 1953  
Ph.D., Ohio State, 1957

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M.S., Rhode Island, 1953  
Ph.D., Ohio State, 1957

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M.S., Rhode Island, 1953  
Ph.D., Ohio State, 1957

ROLAND A. STRUCHTEMeyer  
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Coop. Prof. of Forest Resources  
B.S., Univ. of Missouri, 1939  
M.S., Univ. of Missouri, 1941  
Ph.D., Ohio State Univ., 1951

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Coop. Prof. of Forest Resources  
B.S., Univ. of Missouri, 1939  
M.S., Univ. of Missouri, 1941  
Ph.D., Ohio State Univ., 1951

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M.S., Univ. of Missouri, 1941  
Ph.D., Ohio State Univ., 1951

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Coop. Prof. of Forest Resources  
B.S., Univ. of Missouri, 1939  
M.S., Univ. of Missouri, 1941  
Ph.D., Ohio State Univ., 1951
In January 1981, the School of Forest Resources welcomed Dr. Katherine K. Carter as Assistant Professor of Forest Genetics. Dr. Carter is originally from Warrensburg, Missouri, and before coming to Maine resided in Morgantown, West Virginia. She has a B.S. in Biology, an M.A. in Teaching, a Masters of Forestry and a Ph.D. in Forest Genetics.

Dr. Carter’s time will be spent on teaching and research, both of which she has experienced. She has been involved in research in such areas as tree improvement and geographic variation, has experience as an instructor at a Community College, and has taught junior high school science. Here at UMO, much of Dr. Carter’s research will be a continuation of projects started by Dr. Canavera, the previous forest geneticist. The majority of this work concerns tree improvement of softwoods and is being done at the School of Forest Resources’ greenhouse with the help of technician Pete Caron. Dr. Carter will also be responsible for teaching forest planting, forest genetics, and senior seminar. Dr. Carter’s expertise, both in the field and in the classroom, and her enthusiasm will be a great addition to the school. Welcome!
Support Staff

Support Staff

Walter Legere
Ed Libbey
Dick Robichaud


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

FACULTY ASSOCIATES
Barton M. Blum, Project Leader, U.S. Forest Service
Hewlette S. Crawford, Research Wildlife Biologist, U.S. Forest Service
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
Ralph S. Palmer, Retired from New York State Museum & Science Service; Current Lecturer in Zoology Dept., UMO
Sarah Redfield, State Attorney General’s office
Thomas B. Saviello, Northern Forest Research Center of International Paper Company
Dale S. Solomon, Research Forester, U.S. Forest Service
Howard E. Spencer, Jr., Leader, Migratory Bird Project, Maine Department of Inland Fisheries and Game
Charles D. Webb, Manager, Northern Forest Research Center of International Paper Company

Maxine Horne

Wanda Grenier, Amy Morin
"It may be possible to add to this list, but I doubt it — it's quite impressive."
Dr. Griffin

"If you torture your data long enough, it'll confess."
Al Crossley

"A forest economist is a person who will plant a tree upside-down because it costs less."
Maxwell McCormack

"I know how to use a boring increment."
Anonymous Secretary

"Orono soils don't exist in this area any more; last I heard they had found some Orono soil over in New York somewhere."
Dr. Struchtemeyer

"I lost it while I was in the Army."
Tom Brann

"It's nice to sit on your duff a while."
Ben Hoffman

"This is a phenomenally classic example."
Dr. Owen

"There is no living thing that does not have something chewing on it."
Dr. Campana

"If you don't like your grade, you can just scratch it out and put your own grade on it."
Dr. Griffin

"It's really very easy — just follow the flow chart and you can't go wrong."
Ben Hoffman

"I've got it! — Fair and Fragile Flowers of Forestry!"
Prof. Hale

"Quick! I need a date for senior night!"
Maxwell McCormack

"That was how they did it in B.C. days — before computers."
Dave Tyler

"If I have a son, it's still in the oven."
Tom Brann

"If I have the whole data with me, then my existence is meaningless."
Dr. Gupta (Ms 137)

"All of you sitting there have holes in your head."
Dr. Campana

\[ W + T = F \]
\[ W = \text{Wildlife Management} \]
\[ T = \text{Timber Management} \]
\[ F = 100\% \text{ Mortality (i.e. population crash — no survivors).} \]

"If it's 3-0 pine stock, watch out you're not buying carrots."
Maxwell McCormack

"You can do those things if you're a radical freak like I am."
Tom Brann

"To me, it's like taking money and pounding it down a rat hole somewhere."
Dr. Struchtemeyer

"If a deer can tell the difference (between species of fir), it makes you wonder why you don't do better."
Maxwell McCormack

"One plus one equals four!"
Tom Brann
When we try to pick out anything by itself we find it attached to everything in the universe.

—John Muir