1999
THE Ames FORESTER

Roots To Shoots
Welcome to the 1999 edition of the Ames Forester. This year the Ames forester will take you to the past and give you a look into the future. We like to call it "Roots to Shoots". In the following pages you will read about the history of the Forestry department, Forestry Extension at Iowa State, and Summer and Fall camp programs, as well as articles about innovative teaching such as Project LEA/RN. Along with all of the above articles, you will find updates on all the student activities over the past year such as Conclave, VEISHEA, the Game Banquet. Forestry club, S.A.F., Forest Products Society and, the newest member of the Forestry related clubs, the student chapter of the Arboricultural Society. Last, but not least, we will not disappoint you by leaving out those beautiful pictures and bios of the staff, faculty, and graduate students of the Iowa State Forestry Department.

We'd also like to thank all of the people who, through their expertise and advice, made publishing this edition of the Ames Forester an enjoyable experience:

Dr. Lita Rule, our gracious advisor, Ann Holtz, who put up with our procrastination, and a special thanks to all of our contributors and patrons, who without them, this would not be possible.

Thank you,
Jason Codner, co-editor
Emily Widmer, co-editor
Emily Teeters, co-editor

1943 Ames Forester

Dedication by
George Thomson

Some time back in the dim days of peace, you decided to be a forester. Probably you don't even remember the exact reason - few of us do. Maybe you saw sunrise on a snow-capped mountain. Maybe it was moonlight on the desert, or the smell of wood smoke in the autumn or the taste of maple sugar in the spring that first put the love of the woods in your blood. Or was it the white anger that surged up when you saw the waste and destruction of the woodlands that made you seize forestry as a weapon to stop the crime? It doesn't really matter; you became a forester - and were proud of it.

But, now those things you know are gone - or locked up tight in some dark corner of your memory. You haven't much time for revelry any more, except when the hours drag by on the night watch or the loneliness of far places presses too near. The forests were your past. Hell is your present. You can only work and fight and pray for your future.

To you, the foresters of the world, who sweat and bleed and die that justice and freedom may come a little sooner, we dedicate, with pride and humility, the Ames Forester. May it bring you back to the forest.

Ames Forester Staff
Front R-L:
Heather Hoskins
Emily Widmer
Emily Teeters

Back R-L:
Aaron Lumley
Craig Wilson
Jason Codner

Not Pictured:
Jennifer Gade

The Ames Forester...
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R. M. Allen
Raymond E. Anderson
Donald G. Arganbright

B
Bruce Bebensee
Kenneth Benda
Dwight Bensend
Duane G. Breon

C
Jack G. Campbell
Robert E. Church
Randy Clark
Joe Colletti
C.R. Crowther

D
Frank DeVaul
Warren Doolittle
George L. Dorsett

E
Robert Ethington

F
Rich Falconson
Wayne Fariday
Gary E. Fitch
Earl E. Fritcher

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Phil D. Grimes

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Dr. Howard Halverson
Lee Hanks
George Hartman
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Terry Lane
Jervis Lang
Laurence Lassen
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John Linch

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Lita Rule

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David Wm. Smith
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Dorothy H. Thomson
Paul Timko
Joseph Tomasheski
Timothy Trachsel
Ronald Trochuck
Bob Tyrrell

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Douglas Valley
Steven Van Helten

W
Arthur L. Wallace
Wallace W. Wicks

Y
Dave Young
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We have all seen this frequently used quote from William Shakespeare on many occasions and maybe pondered its meaning in a particular context. In the case I am about to discuss it does have a lot of meaning to those of us in the natural resource professions here at Iowa State, because if all goes as planned, the College of Agriculture will undergo a name change in the not too distant future, to the College of Agricultural Sciences and Natural Resources. This change has been precipitated by the recognition that the College is much broader than just agriculture, even by your most liberal interpretation of the meaning of that word.

The committee charged with developing the current strategic plan for the College recommended that a name change was in order because we are much more than just traditional agriculture. Several potential names were put to a faculty vote in a two phased process. The College of Agricultural Sciences and Natural Resources emerged as the majority choice and has now been passed on to the Faculty Senate for approval. Those of us on the natural resource side of the house feel very good about this choice (no, we did not stuff the ballot box) and are hopeful that the process will be brought to a successful conclusion. However, even though there is strong support in the College for a change, we are not out of the woods completely, in that there are some natural resource disciplines in the University that lie outside of the College of Agriculture. Geology and meteorology are a couple of examples. Those folks may take exception to our exclusive use of the natural resource title and mount a counter attack to our proposal. So only time will tell the outcome.

Independent of the outcome, we feel very good about the role that the Forestry Department has played in broadening the perception of the spectrum of activities that go on in the College. So somewhat like an oak sapling we have been standing by, spending our time developing our root system and lining up our resources so that when the opportunity to bask in full sunlight arrives we are ready to take full advantage of our new situation. Hopefully, our shot at equal billing will not be denied and we can become even more visible and enter an exponential phase of growth. Stand by for further developments.
Timeless Answers to Age-Old Questions

by Steve Jungst

What kind of employment can I find after I graduate? How much can I expect for a starting salary? Where are forestry jobs located? Will I need a Master’s degree to get a job in forestry? How fast will I get promoted in a forestry job?

These questions, and numerous others like them, are common during freshman and transfer student orientation sessions, or any time prospective students are considering forestry as a major at Iowa State. They also reappear as Seniors get closer to graduation time and begin to realize that the time they have spent in school now needs to be translated into a paying job. Answering the questions is difficult because ISU forestry graduates get into so many different jobs with so many different employers doing a myriad of different things. To help us do a better job of giving students sound guidance, the faculty decided to implement an annual survey of past graduates to obtain information about many of the things new students want to know. The survey was conducted for the first time during the summer of 1998 and will be repeated annually for the foreseeable future to give us the necessary information.

Questionnaires were mailed out to all forestry graduates who graduated 2 years, 5 years, or 10 years previous to the summer of 1998. By using these graduation times, we believe we will get good information on entry level jobs as well as information from graduates who have been in the workforce for a longer period. As we begin to accumulate more than one year’s worth of data, we should be able to put together an accurate picture of what graduates are doing after graduation, as well as how the typical career progresses. The information that follows will begin to provide some insight into the career tracks of ISU forestry graduates. As we repeat the survey during the coming years, the information should become more reliable. Further, since new information will be com-

Table 1. Salary ranges for ISU forestry graduates surveyed.

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ing in annually, we will be able to answer student questions with current information from our graduates.

Survey Responses

The number of respondents for the first year’s survey is low, so it would be unfair to say that the information is truly representative at this time. With the addition of information from ensuing years, the information should become more trustworthy and, therefore, useful.

Salary information for the respondents is shown in Table 1 on the previous page. Numbers in the table are number of graduates reporting a salary in the particular category.

We have always told students that there are many different employment opportunities in forestry because there are so many different employers. Information coming back from our graduates confirms that. Among the respondents who graduated in 1996, employers included:

- U. S. Forest Service: 1
- Private industry: 3
- Private consulting: 1
- State agencies: 2
- Arboriculture companies: 2
- Graduate school: 1
- Other: 1

Graduates from 1993 reported the following employers:

- U. S. Forest Service: 1
- Private industry: 2
- Private consulting: 4
- Other: 1

Graduates from 1988 are employed by:

- U. S. Forest Service: 1
- Private industry: 3
- Private consulting: 1
- Other: 1

Perhaps some of the most useful information from the surveys for students currently in forestry comes from comments submitted by respondents. They were asked, “If you had an opportunity to speak to our students who are just beginning their study of forestry, what message would you give to these new students?” The following are excerpts from comments provided by the respondents. Although the comments were originally intended for current students, many are also very applicable to all of us who will continue to be students of forestry throughout our lives.

“Be very passionate in your field. The enjoyment comes from a love of the outdoors and nature. This will make any task enjoyable, no matter how bad it gets.”

“Be humble. Want to learn. Want to understand. Welcome challenges. Change and grow.”

“Learn all you can in a variety of subject areas because you never know what skills you’ll need in the future.”

“A command of basic technical aspects of forestry is a must for graduating foresters. However, that is the minimum requirement. You are expected to be competent. What sets you apart from other grads is your ability to communicate effectively and work with others in a professional manner.”

“Communication! Be able to present yourself well and talk to people from different backgrounds.”

“Get forestry related jobs every summer to pick up as much hands-on experience as possible.”

“Get as much experience as possible before you graduate. It will give you a leg up on others.”

“Be an active student in both the curriculum and the Department. Be a team leader. Obtain practical job experience as soon as possible.”

“Be sure to get summer job or internships in the area of forestry you are most interested in.”

“Communication skills are essential. Working in groups and being able to communicate with others
(through programs, speeches, etc.) is vital. Knowing the forestry information is always a good thing, but communicating this information to others is important. Get involved with forestry club and other activities. These experiences are always helpful.”

“Really work on public speaking and giving presentations. No matter what area of the profession you choose, these are two areas that will truly aid you in “climbing the ladder” as well as providing a solid communications background for you.”

“Don’t think that because you just graduated that you know it all. What you will learn in the first three months of working will surpass half of the things you learned in college.”

For those of you who have graduated from forestry in the last 10 years, you can expect to be hearing from us with a request to provide similar information so we can continue to add to our database. We hope you will be willing to spend a few minutes to fill out the questionnaire. The information you provide to us will be very helpful in keeping prospective and current students advised of the trends in forestry employment, and of the need for particular kinds of course work to supplement their technical forestry background.
FIFTY YEARS OF FORESTRY EXTENSION IN IOWA

by Dean R. Prestemon

This article is intended to provide a brief history of forestry extension in Iowa over nearly the last fifty years, with particular emphasis on activities since 1966. Information is based on a review of past issues of the Ames Forester, records at Iowa State University, and personal contacts with past extension foresters. No claim is made that all details are absolutely correct, or that all relevant information is included. However, a serious attempt has been made to record pertinent information relating to the development of forestry extension at Iowa State University.

Staffing

Richard (Dick) Campbell served as Extension Forester from 1950 until 1956. During 1957 and 1958, Martin E. Craine and Lee Andreas served as Extension Foresters. Robert Davidson was hired on January 1, 1959, and served until September 30, 1963, when he left to attend graduate school at Harvard. James Gottsacker joined the staff as Extension Forester on June 17, 1963, and served until June 15, 1966, when he left to join the U.S. Forest Service. In September of 1965, I came on staff with a 40 percent appointment in extension and a 60 percent appointment in research. The intent was to expand forestry extension activities by developing a forest products extension program focused on the proper use of wood in construction. David Smith served as Extension Forester from September 1, 1966, to June 30, 1967. On September 1, 1967, David Countryman was promoted from extension assistant to Acting Extension Forester and served until April of 1968. Ed Grafton became Extension Forester on July 1, 1968. Ed worked in the department for four years, and then he accepted a position at Glenville State College in West Virginia. Dr. Randall Heiligmann became Extension Forester on March 1, 1973, and served until January 10, 1975. Randy left to join the extension staff at Michigan State University. Jim Gulliford, a forestry graduate student, was a full-time extension staff member from January 1 to May 31, 1975; that same year my extension appointment was increased to 75 percent.

Dr. Paul H. Wray began his tenure as Extension Forester on July 1, 1975, with a 75 percent appointment in extension and a 25 percent appointment in research. In 1987, Paul Wray and I both increased our extension appointments to 92 percent. Mark Vitosh was hired as a full-time staff member in forestry extension in 1994 and was assigned specific responsibilities relating to urban forestry and youth education. On July 1, 1994, I enrolled in Iowa State University’s Phased Retirement Program with a 66 percent appointment. Paul Wray increased his extension appointment to 100 percent in 1996; on July 1, 1998, I began my final year at Iowa State with a 50 percent appointment.

In addition to extension faculty and full-
time staff, the forestry extension program in Iowa has been served well by graduate assistants who work half time while pursuing an advanced degree. During the late 1950's and early 1960's, Lee Andreas, Jack Kepler, and Donald Reckler served as extension assistants in forestry for varying lengths of time. After several years apparently without an extension assistant, David Countryman was appointed as a forestry extension assistant in 1966. Other forestry graduate students that have served in that capacity since that time include Dave Braley, Ervin Schuster, Brad Upfield, Jim Gulliford, Kim Coder, Reinee Hildebrandt, Jeff Roe, and Amy Kuehl.

Another group of people that have made special contributions to extension programs over the past 50+ years are those forestry faculty members without a formal extension appointment who are primarily responsible for resident instruction and research. For example, in the early 1960s, Fred Hopkins and Bob Ethington provided teaching input to special forestry extension programs; in more recent years, Dave Countryman and Steve Jungst have taught important segments of a major educational program. Department heads and chairs have also been very helpful in supporting and delivering forestry extension programs. Finally, unique contributions from extension specialists in other disciplines has increased the breadth and quality of forestry extension programs particularly during the last 30 years.

**PROGRAMMING**

Although records are very limited prior to 1965, Extension Foresters reportedly worked on a variety of programs including Christmas tree production, utilization methods, windbreak establishment, woodland management, walnut marketing, urban forestry, and conservation education for youth. Special emphasis was placed on outdoor recreation programs from 1968 to 1972 under the leadership of Ed Grafton. Prior to 1976, educational programs were most typically provided in response to requests from county extension offices; considerable time was spent responding to mail and phone requests from individuals and working with mass media outlets.

After Paul Wray joined the Department of Forestry, the extension program was thoroughly reviewed, and new program goals were established. The major mission of Forestry Extension at Iowa State University was formally articulated as “providing educational programs to improve and expand forest and tree resources in the state.” The decision was made to become more proactive and provide aggressive leadership for a few targeted programs focused on specific clientele. Two areas of emphasis were selected: 1) woodland management and plantation establishment targeted to landowners; and, 2) the proper use of wood in building construction directed at builders and material suppliers. To minimize potential conflicts with the Iowa Conservation Commission, agreement was reached with State Forester Gene Hertel to have forestry extension focus primarily on education, to have the forestry unit within the Iowa Conservation Commission emphasize service to landowners, and to have forestry extension and the District Foresters work cooperatively whenever appropriate. This working arrangement continues today; this state agency was renamed the Iowa Department of Natural Resources in 1986.

Outdoor classrooms for landowners, labeled as Forestry Field Days, were initiated in 1976 in cooperation with District Foresters of the Iowa Conservation Commission. Two field days were
offered during that fall; these programs were very popular with more than 100 people attending each event. Since that modest beginning, Forestry Extension has offered more than 270 Forestry Field Days over the last 22 years with an average attendance of about 40 people. Beginning in 1985, the utility and effectiveness of this educational program has been evaluated every other year using a mail survey of landowner clients; the client responses to survey questions have been very positive and consistent. For example, in the 1997 survey, 97 percent of the clients responding reported having a better understanding of their woodlands, 74 percent implemented specific management changes, 57 percent developed a specific management plan, and 73 percent estimated the dollar value for the benefits received by attending Forestry Field Days at more than $250.

From the early 1970s to the middle 1980s, forestry worked very actively with extension specialists in architecture, economics, engineering, home economics, landscape architecture, and sociology to sponsor educational meetings and provide reference materials for homebuilders, retail lumber dealers, designers, and homeowners. Forestry extension was instrumental in organizing a multidiscipline extension group called the “Housing Task Force” (later the “Home Team”) to work on housing problems. During the most active time period, 10 to 15 educational conferences were offered each year in major Iowa population centers for the construction industry; simultaneously, information on energy efficiency and home maintenance was provided for homeowners across the state. Several cooperative research projects supported by outside grants evolved from this multidiscipline housing extension program. With the perceived passing of the energy crisis in the late 1980’s, interest in housing diminished in county extension offices resulting in greatly reduced requests for assistance from forestry extension in this program area.

In 1988, Forestry Extension, in cooperation with Forestry Division of the Iowa Department of Natural Resources and other organizations, launched Iowa’s nationally-recognized Master Woodland Managers Program. This educational effort was designed to provide 36 hours of intensive, broad-range forestry instruction for woodland owners. By the end of 1998, 610 volunteers had been trained as woodland ambassadors at 24 locations across the state; graduates from the first 22 sessions have already contributed over 14,500 hours of public service. This program provides a cadre of well-trained volunteers to assist natural resource professionals and to promote forestry to other landowners and the general public.

Forestry Extension has been active in providing educational programs on urban and community forestry for many years. For example, from the late ‘70s through the ‘80s, forestry extension was involved in the “Plant Iowa Program”, the “Trees for the Future” effort, and the “Community Tree Program.” Urban forestry programs have not been continuous over the years because of inconsistent and limited resources. However, beginning in the early ‘90’s, reliable, consistent availability of federal funds coupled with the appointment of an urban forester in the Department of Natural Resources stimulated a dramatic surge in urban and community forestry activity in the state. Forestry and horticulture extension have assumed the leadership role in providing educational programs. For example, Community Forestry Workshops, typically involving two hours of instruction on tree establishment and care, were offered in 27 differ-
ent communities last year with a total of 660 participants. The Community Tree Steward Program was initiated in 1994 with the goal of developing a network of highly motivated, well-trained volunteers to expand and improve Iowa's community forests. Two Community Tree Steward programs, involving 24 hours of instruction, were sponsored last year involving 60 participants. The first 261 graduates of this program have already reported over 7,000 hours of community service.

Forestry Extension has sponsored educational programs for youth since 1950; the level and type of activities have varied depending on resources available and interest of extension staff. Early efforts were focused primarily on providing educational programs and resources for young people enrolled in 4-H. In the 1980's, the youth audience was broadened to involve other organized groups, and outdoor classrooms were offered to schools. Recently, a renewed effort has been made to provide conservation education for youth and teachers. During the last program year, 38 presentations were made to 960 students, and 19 classes of 5th and 6th grade students received intensive training in the Community Tree Steward Program for Youth.

Forestry Extension has also been involved in a variety of other educational efforts over the years including regional continuing education programs for resource professionals, multi-state Forest Stewardship Conferences for landowners, Iowa's Shade Tree Short Course, windbreak schools, Christmas tree workshops, and specialized forestry applications meetings. The Woodland Owners Newsletter was initiated in 1982 and, for several years, this quarterly publication was mailed to over 13,000 people in the state; in recent years, this newsletter has been scaled down because of limited resources. Forestry Extension maintains almost 100 forestry extension pamphlets and notes to provide supporting materials for educational programs. Extension Foresters have been involved in a large number of radio and TV programs during the last 20 years and have regularly sent out timely releases to newspapers across the state. Numerous mail, telephone, and e-mail inquiries are handled every day. In 1997, Forestry Extension established its own web page.

In the late 1980s, operating funds from conventional state appropriations for extension programs were reduced and began to limit program delivery in forestry. Fortunately, special federal support did become available to forestry and wildlife extension units in 1987 from the Renewable Resources Extension Act. In addition, beginning in 1991, substantial federal forest stewardship and urban forestry funds have been provided through grants from the Iowa Department of Natural Resources to support forestry extension activities. During the last three years, Forestry Extension has also secured special funds to support Iowa's Master Woodland Managers Program from the Iowa Tree Farm Committee and from the Iowa Woodland Owners Association. Currently, two-thirds of the operating funds for forestry extension activities (exclusive of salaries) come from sources other than state appropriations.

**Personal Observations and Future Outlook**

Forestry Extension in Iowa between 1950 and 1965 was characterized by frequent staffing changes, limited resources, and responsive programming. Beginning in 1975, staffing was increased and became more stable. Forestry extension has had the same two extension faculty mem-
bers working together since that time, and valuable assistance has been provided by quality graduate assistants and, more recently, by a very productive full-time staff member. The forestry extension effort has become more focused during the last 22 years with the development of two or three major programs. The information delivery systems used have been modified over the years to fit the needs of the clients. Active, continuing partnering with the Forestry Division, Iowa Department of Natural Resources, has contributed to both successful audience generation and effective program delivery. In addition, cooperation with county conservation boards, the Natural Resources Conservation Service, and other organizations has become typical in many programs. Forestry extension has clearly demonstrated its ability to respond to special educational needs in the state such as managing storm damaged trees, using wood as a home heating fuel, or modifying construction to improve energy efficiency.

I believe that the extension program in forestry has been a very effective one during my 33+ years at Iowa State University. The university has approved hiring a replacement faculty member with a minimum of 50 percent extension appointment. Every effort will be made to hire the right individual to assist Paul Wray and Mark Vitosh in the continuation of an active, effective forestry extension program. The challenges will be to adapt to a modified working environment at Iowa State, to keep pace with changing needs of clientele, to maintain close ties with current cooperators and identify other potential partners, to continue acquisition of financial support from outside sources, and to deliver educational programs and information in the most effective and efficient manner with limited resources. 

The Ames Forester...
Bear Creek Watershed Project: On June 16, 1998 the United States Department of Agriculture dedicated the Bear Creek Watershed Project as the Bear Creek Riparian Buffer National Research and Demonstration Area. The dedication was part of the Iowa Conservation Buffer Tour hosted by the USDA Natural Resources Conservation Service, the USDA State Technical Committee, Conservation Districts of Iowa, and Trees Forever. Over 100 conservation and agricultural professionals from around Iowa attended the tour. In his comments, Craig Cox, the Acting Deputy Secretary for Natural Resources and the Environment in the USDA, cited the major impact the Bear Creek Watershed Project has had in fostering buffer adoption and demonstrating the effectiveness of the technology. In 1999 an additional 1.2 miles of Bear Creek is being planted on the Jon and Steve Risdal properties. These plantings will consist of nearly 20,000 tree and shrubs and over 17 acres of native grasses. Research is ongoing to assess the effectiveness of the buffers to improve water quality and wildlife habitat. These efforts will be bolstered by new competitive grants awarded from the USDA National Research Initiative Competitive Grants Program and the Iowa Department of Natural Resources/US Environmental Protection Agency Nonpoint Source Water Quality Program.

Mark Twain Watershed Project (MO): The riparian buffer research group is expanding their efforts into Missouri through a collaboration with the Agroforestry Research Center of the University of Missouri at Columbia. The six year project is funded by the US Environmental Protection Agency and will investigate the effectiveness of riparian buffers in reducing non-point source pollution as well as quantifying the perceived market and non-market value added to land developed with buffers. The project is being undertaken in three watersheds that drain into the Mark Twain Watershed in Northeast Missouri.

Figure Caption:
Photo taken at the dedication of Bear Creek Riparian Buffer National Research and Demonstration Area. Back: Landowner/cooperators Ron and Sandy Risdal, USDA Acting Deputy Secretary for Natural Resources and the Environment, Craig Cox, landowner/cooperator Lon Strum. Front: Ron and Sandy Risdal’s grandchildren.
Forestry courses at Iowa State College started in the year 1878, and have continued, expanded and flourished since that time. In 1913, the Ames Forester became a yearly tradition at Iowa State. In the first edition there is an article entitled “The Making Of An Ames For­ester”. It mentions the Ames motto of “Science with Practice”. This motto was created years ago and continues to apply to forestry at Iowa State today, so I thought it would be perfect for a past to present comparison of the Summer/Fall camp period for the ‘Roots to Shoots’ issue of this years Ames For­ester. I read the article thinking it was about the publication, but instead I found the groundwork that had been laid for the creation of what was then referred to as the ‘Summer Camp’ period, and is now referred to as ‘Fall Camp’ period.

A portion of the article explains how the camp was originally at the beginning of the third semester (i.e. sophomore year) of coursework and how the camp went over a three month time pe­riod. The student was to learn silviculture, forest mensuration, utilization, and lumbering while also learning to appreciate and enjoy out door living. Classrooms and sleeping quarters were comprised of tents, and the location of the encampment was along a stream or lake in the northern-forested re­gions of Wisconsin or Minnesota. The article also commented on how the camp period would be strenuous because so much work was crammed into

1923 Summer Forestry Camp
Arapahoe N.F., Colorado
three months instead of a whole semester, but in
the end those who experienced it would have only
fond memories of camp fires and fun times with
their fellow classmates and instructors.

Several people within the forestry depart­
ment had told me that 1914 was the first year the
camp was completed. I looked in the 1914 issue
of the Ames Forester and found an article in refer­
ence to the summer camp experience. As I read it,
I was disappointed to realize the article was not
written from someone who had gone to the camp.
In fact, there was no author to the article at all. I
referred to the 1915 issue only to once again find
no reference of a summer camp even taking place.
This befuddled me, but I still decided to write an
article comparing the two as best I could.

In the 1914 article, the summer camp was
moved to the fifth semester of coursework that
would be between the sophomore and junior year
respectively. It is explained that by this time the
forestry student has more background education
to aid in their studies during the camp period.
Originally the camp was split into four sections.
The three primary sections covered silviculture,
forest mensuration, and lumbering. I felt a sen­
tence included in the fourth section entitled "mi­
nor industries" displayed a bit of the 'Roots to
Shoots' theme of this issue. It mentioned the roots
of studying the manufacture of paper from wood
pulp and wagon and buggy stock. The sentence
also hinted to the shoots of, at that time, the prod­
ucts of tomorrow's forest industry, which has now
become the mainstream of the industry today. The
three specific products that caught my eye were
the manufacturing of cooperage stock, boxes, and
veneer.

Over the years, Iowa State College became
Iowa State University comprised of seven indi­
vidual colleges, and the camp period was moved
from the summer to the fall. Another major change
for the camp period was that it was shortened from
three months to three weeks, and the location of
the camp became more varied. I was one of thirty­
nine forestry students to partake in Fall Camp 1998.
Our three week adventure was during the first three
weeks of September and was located at the Uni­
versity of Wyoming's Randy Watkins Recreational
Camp just outside of Centennial, Wyoming. In­
stead of tents, we slept in wooden cabins with wood
burning stoves which could accommodate up to
eight students. We had electricity, telephone capa­
bility, indoor plumbing and a full kitchen with ov­
ens, coolers, and freezers. Our classes were either
in the lodge, on a mountainside, or at a lumber
camp. At each place an expert was there to show
and teach us about the different aspects of what
forestry work entails. Our instructors showed us
forest mensuration and teamwork skills. Compared
to the camps of yesteryears, we were spoiled.

However, there were similarities between
the camps of now and the camps of then. The re­
mote location was one of them. We were thirty miles away from any real form of civilization which, for my generation, consisted of ATM machines and a Wal-Mart. This mere fact demonstrates a sign of the times. Early camp students may have considered having a cabin or running water as signs of civilization. More recent camp students may consider McDonalds and convenient stores as signs of civilization. Another similarity is the bonfires after a long day of classes, tours and hiking, and the stories told around those fires.

After our three week adventure, it was time to incorporate what we had learned at camp into areas of forest statistics, resource management, forest ecology/biology and much more. Teamwork was still emphasized due to the trend in society of having people work together to solve problems instead of trying to do everything on their own. This new philosophy of learning is proving to be very useful both during coursework and in job related tasks.

Overall, the camp experience of this year met the same goals of camp experiences in years past. Students learned valuable forestry related skills covering many aspects of forestry while finding a new respect for the natural world beyond the classroom. In the end, every student who participates in a camp will come away with lots of stories and memories of both good times and bad times that occurred during the camp as well as meeting the goal of the motto “Science with Practice”.

Above: Looking out over camp, 1923
Left: Main cabin, 1998
Clockwise from top: Logging in 1998, Logging in 1923, Tearing down the tent fly in 1922, Mopping up the floors in 1998
Left: Getting ready for weekend trip, 1998,
Middle: Getting ready for weekend trip, 1923,
Bottom: Chow time, 1922
Clockwise from above left: Mrs. Hollandsworth in the kitchen, 1922, Ms. Holstein in the kitchen, 1998, Chow time, 1998
Tying into This year’s theme of “Roots to Shoots” we sought out alumni for their opinions and words of advice. The following is a letter submitted by Andrew Mitchell, a graduate of the class of 1980, in which he suggests seven pieces of valuable advice for future foresters:

“I graduated from Iowa State with a degree in Forest Management in June 1980 by the skin of my neck. Not that I was academically failing, just that my enthusiasm for the routine of school was in free fall. I’d already spoiled myself by taking a quarter off hitching to Alaska.

Nowadays they talk about orienting your life using the “Seven Habits”. I blew out of Ames with the 3 goals.
1. Avoid jail
2. Avoid fatherhood
3. See the world

Eighteen and a half years later this is what I have to show for it:
* Contract packer for Wyoming Game and Fish
* Five years as a Yellowstone Backcountry Ranger (followed by several winter trips to Costa Rica, Great Britain, Chile, Argentina, and Brazil to alleviate acumulated job!)
* Smokejumper for the BLM in Alaska, Idaho, and Oregon
* Nine years as the Yellowstone Helitack Foreman including parkwide SAR Coordination, and management of the fireline blasting program.
* Three trips to Argentina and two to Canada on government assignment.
* Currently I’m the Wildfire and Hazard Fuels/Hazard Tree Management Specialist for the park.
* Also somewhere along the line I married a saint who is doing her best to get me house broken and raise our seven-year-old daughter.

Along the way I’ve come up with a new set of maxims to follow—take them for what they are worth:

1. Do what you love and the money will follow.
2. Take a Zen attitude toward both the good things and bad that come your way.
3. Take advantage of every single training opportunity that comes along. This includes skills that are not directly related to your current duties.
4. Lean hard on the Golden Rule. Relationships are key and last forever, one way or the other.
5. Have solid computer skills, but always keep in mind that the work is in the woods, not on your rear in front of a box of wires.
6. Physical fitness is way more important than you currently think.
7. There is absolutely only one good drug and that’s beer. Use it in moderation. (By the way that includes Copenhagen for all you hard guys reading this. I chewed a lot for years and I swear that when I went cold turkey 4 years ago that it would have been less uncomfortable to kick heroin.)

Well there you have it. If you’re smart enough to survive the ISU Forestry curriculum, you’re smart enough that you’ll always have enough coin to get by. So don’t sweat that aspect of things. The degree has opened doors I never dreamed of as a kid growing up in Mason City. Best of luck.”

Andrew Mitchell
B.S. Forestry, 1980
Education is something that gets talked about. Government and industry are calling on higher education to become more accountable for the outcomes of college education. As a result, universities nationwide are struggling with this challenge to improve student learning. Century-old traditions, which have perpetuated teacher-centered education, are evolving into learning-centered instruction. The Department of Forestry at Iowa State is at the forefront.

The shift from teaching-based to learning-based education is much more than a simple semantic change. It is a dramatic shift in the basic way we think about the educational enterprise, and more importantly, in what actually happens in college classrooms.

Research has shown that learning-centered approaches can make a difference in the experiences of college students. These benefits include achievement gains, retention, mutual respect for differences, and self esteem. However, adopting a learning-centered approach represents a major change in what faculty must do to enable student learning. Thus, innovative faculty development efforts are critical.

Many forestry faculty members are participants in a university-wide teaching enhancement program, Project LEA/RN. The project provides training, resources, and encouragement for faculty who wants to improve student learning.

Project LEA/RN participants meet in groups for two hours every other week. In each session, participants learn a new or refined teaching strategy. The groups provide a supportive environment for discussion and experimentation so that faculty can model new activities or techniques before trying them in class. In addition to LEA/RN, groups, many faculties choose to participate in four-day workshops (on their own time - meeting during university breaks) which provide intensive training.

The faculty is not only studying learner-centered theories and strategies that have proven successful in the K-12 educational system; they are putting those techniques and strategies into practice. More specifically, their work has focused on learning how people learn, creating structures for student engagement, determining purpose (of lessons, courses, programs), lesson planning, and effective questioning.

Early research at Iowa State shows that learning-centered education has a positive impact. In a study of courses here, students in active-learning sections achieved higher grades; and fewer students dropped, failed, or withdrew compared to students in other sections of the same classes that utilized traditional instruction.
STUDENT ACTIVITIES
You will be greatly missed...
A Tribute to Andy Mathias
1978-1999

Though not often consciously recognized, perhaps this is the great pleasure of Summer: to watch the earth, the dead particles, resolving themselves into the living case of life, to see the seed-leaf push aside the clod and become by degrees the perfumed flower. From the tiny, mottled egg come the wings that by and by shall pass the immense sea. It is in this marvelous transformation of clods and cold matter into living things that the joy and the hope of Summer reside. Every blade of grass, each leaf; each separate floret and petal is an inscription speaking of hope. Consider the grasses and the oaks, the swallows, the sweet, blue butterfly—they are one and all a sign and token showing before our eyes earth made into life. So that my hope becomes as broad as the horizon afar, reiterated by each leaf, sung on every bough, reflected in the gleam of every flower. There is so much for us yet to come, so much to be gathered and enjoyed. Not for you or me, now, but for our race, who will ultimately use this magical secret for their happiness. Earth holds secrets enough to give them the life of the fabled Immortals. My heart is fixed firm and stable in the belief that ultimately the sunshine and the Summer, the flowers and the azure sky, shall become, as it were, interwoven into man’s existence. He shall take from all their beauty and enjoy their glory.

———Richard Jefferies
Above: Andy blazing trails.

Above: Andy and father, Wayne.

Right:: Andy with father, Wayne, sister, Mandy, and mother, Gloria

Above: 1997 Fall Forestry Camp, Cloquet, Mn., (Left to Right: Jason Severe, Andy Mathias, Matt Clark, John Byrd)

Below: The buck stops here.

Above: Andy and father, Wayne.

Right: Andy with father, Wayne, sister, Mandy, and mother, Gloria

...Iowa State University 1999
A New Club for a New Option: The Arboriculture Club

by Jennifer Gade

This past fall was an exciting time for the Forestry Department at Iowa State University. A brand new option was being introduced to students. The two existing options of Wood Products and Resource Management could not completely accommodate a new area of forestry. The new option of Urban and Community Forestry began with the Fall 1998 semester. Classes in this option will train students on the various situations an Urban Forester or anyone in a natural resource/forestry career working with a community may encounter. Conditions and situations in an urban forest setting can greatly vary with the conditions and situations in a larger forest. Initially, the students enrolled in this option could be counted using only two hands. Within a year, that enrollment has jumped to around 25 students. Based on what I have heard and those I have talked to, this number will continue rise for years to come.

Well, now there is a club for anyone who is interested in having a career in natural resource work in an urban and/or community setting. The Iowa State University Arboriculture Club was created during the last month of the Spring 1999 semester. The current president of the club was approached by Dr. Thompson, who handles the majority of the urban related aspects for the department, and one of the forestry graduate students with the idea of creating a chapter within the Midwest Chapter of the Student Society of Arboriculture (SSA) on the ISU campus. The president and the graduate student ran with idea, and within a week the president and I, the vice-president, were at the annual SSA convention held this year in Eagle Bluff, MN. There we talked to several other chapter members and learned what it took to become an official chapter of the SSA.

First, we needed to be recognized as a university organization. Less than two weeks after the conference, the Arboriculture Club had its cabinet officer’s, filled out the proper paperwork, and was recognized by the University. The Midwest Chapter SSA Board of Directors must approve us before we can call ourselves the Student Society of Arboriculture chapter at Iowa State University. This is one of our main goals that hopefully will soon be met. A member of the Board, whom we met at the conference, will be presenting our club to the SSA Board of Directors during their meeting in June. We would like to become an official chapter by Janu-
Another goal we have is to expand our membership. We have contacted students majoring in horticulture, turf management, and landscape architecture in hopes of reaching this goal. There are several projects and fundraisers in mind for the following year as well as years to come. The three clubs for the three options in forestry will be working together as much as possible on projects and fundraisers as a way of expanding resources and spreading knowledge to anyone who is interested. The Forestry department and students in the Arboriculture club as well as those who have or will be taking the Urban and Community Forestry option are enthusiastic and optimistic about the future of the club and of the option. The skills acquired by working together, networking, and expanding resources that come out of being involved in clubs like this one are going to prove to be priceless in the career world.

Urban forest activities range from pruning for safety (left), to pruning for beauty (above), to planning, training and care to preserve the quality of trees in our community.
The Forestry Club has had another successful year, and once again stands as a shining example of what all clubs on campus should strive to be like. Officers for this year were President- Eric Holzmueller, Vice-President- Jason Clapper, Treasurer- Wesley Adkins, and Secretary- Brian Buenger. Dr. Joe Colletti advised the club, and most of our success can be credited to him.

Croquet, horseshoes, brats, and hamburgers got the year started off with a bang at the annual freshman introduction picnic. Brian Buenger dazzled everyone with his croquet style and play to come away with an impressive victory in the croquet tournament. The competition was so intense that Mike Anderson went out and bought his own croquet set to practice for next year's tournament. Meanwhile, Dan was putting on another show under the shelter by polishing off five brats and three sides of Hy-Vee potato salad without any shame. The club also took a trip down the Des Moines River from Boone to Ledges State Park. Although the morning weather looked promising, thunderstorms slowed down our progress along the big, muddy meandering waterway. We made it through though, with Will being the only person managing to tip himself over while trying to get out of the boat. This April, another trip is being planned with more people, canoes, and good times.

Christmas tree sales are the backbone of the Forestry Club. This is where most of our funding comes from, and it enables us to participate in so many activities, at such a little expense to our members. We owe a great deal of thanks to Dr. Wray who donated forty trees from his research plot. The rest of the pine trees came from our own plantation, while the balsam firs were imported from Wisconsin. Sales started off a little slow because of the warm winter weather. It's a bit hard to get people excited for Christmas when you are selling trees in short-sleeve shirts.

Sales did pick up the second weekend though, as the temperatures dipped and snow flurries started to fall. Josh Sterling ended up being the number one sales holder, helping a multitude of people with his cheery grin. Next year we hope to acquire a wreath making machine to broaden our product line to include wreaths.

Forestry Club was also involved in charitable activities in the community of Ames. Laura Revell signed up a record number of participants to run in the Relay for Life, which was sponsored by the American Cancer Society. The club also sponsored a mini-golf hole for the Student Council Association in their mini-golf tournament, giving away a free Christmas tree as the top prize. Some of the seedlings that have been planted by the club have been given away to local camps and schools for them to plant in their area.

Dave Carter and Amber Mayo did a wonderful job on the Game Banquet this year. Every-
one enjoyed a feast of lion, duck, elk, and other wild game. The club would like to give a big thanks to all who donated meat for the banquet. Marty Sterkel, Chief of Partnerships for the National Park Service, was the guest speaker. He gave a fantastic presentation about tourism in national parks. Awards and scholarships were given out afterwards to students.

All in all it’s been a great year. I would like to say thank you to all of the club’s members and everyone who helped make this such a smooth year for the club, none of these projects could have happened without your support.
The 48th Annual Midwest Forestry Conclave

by Jason Clapper

The Iowa State Conclave team got off to an uncertain beginning in 1998. Days before the big event it was unknown whether we would have a team able to compete. Fortunately, a few brave souls decided to throw caution to the wind and compete like true Iowa State Foresters. Competitors like Eric Holzmueller, Jason Clapper, Michael Anderson, and Will Ekwall, know how to bring it home. As well as Derek Mercer and Nick Siebrecht, who proved to be true sportsmen.

We arrived that Friday night in West Lafayette, Indiana. After setting up our tents we settled in for a good nights sleep. Several of us were caught tossing and turning all night, too excited to sleep with thoughts of competition in our heads. I was never one to name names but Eric Holzmueller was very excited about the competition. We awoke to a bitterly cold morning, but this would not slow our competitive spirit. The team discussed strategy as we dinned on a delicious bagel and donut breakfast.

At 8:00 a.m. sharp the first event, the tobacco spit, began and Mike Anderson stepped up to the challenge. Spitting with all his heart and spit, unfortunately it wasn’t enough and he didn’t place. The next big event was the log roll. We paired off our team in order to maximize speed, strength, and ability. Our team held it’s own but the other teams were good, real good. At the wood identification Eric Holzmueller eyed his little heart out but he couldn’t get enough to place. I guess he didn’t deserve that D+ in 281 after all! Derek finally got into the groove at the match split and brought home 3rd place and three points towards the overall team score. Unfortunately, these were the only points we earned for the rest of the competition. We gave it all we had in the two-man bucksaw, dendrology, men’s pulp toss, lunch, men’s bolt throw, men’s speed chop (we broke our ax), and the special event. Despite a very good impression of a monkey during the tree climbing event, the team still did not score any points.

That night we dined at the hog roast and laughed about our day. The dinner was followed by an awards ceremony where Derek received his third place trophy for the match split, a most impressive accomplishment for the young forester. We relaxed that night with a dance and everybody had a good time. The next day we headed for home. Now some would say, “How disappointing you didn’t win anything.” To that I have only one reply, we may not have come home with 1st place or 2nd place or even 3rd, but we gave it all we could and had a great time doing it. With memories like those who could ask for anything more?

“We awoke to a bitterly cold morning, but this would not slow our competitive spirit.”
Xi Sigma Pi, founded in 1908 at the University of Washington, is the National Forestry Honor Society, the objective of Xi Sigma Pi are to secure and maintain a high standard of scholarship in forestry education, to work for the improvement of forestry profession, and to promote a fraternal spirit among those engaged in activities related to the forest. Iowa State University’s Alpha Gamma Chapter was chartered in 1965. Our local chapter conducts member initiation, sponsors service projects, and works for scholarships and awards.

The 1999-2000 officers for Xi Sigma Pi are as follows:

David Carter.........................President
Shawn Higbee.........................Vice President
Jason Severe............................Ranger
Emily Widmer.........................Secretary

The 1999-2000 initiates:

Kevin Cox
Joe Dixon
Robert Grala
Eric Holzmueeller
Rodney Jones
Amber Mayo
Jeremy Moore
David Webber

Society of American Foresters bids farewell this year to the 1998-1999 officers, Chairperson Ty Kirk and Vice-Chairperson Jamie Hart. The new members of SAF are planning to attend the National Convention in Portland, Oregon in September of 1999. The SAF has graciously awarded two ISU Forestry students, Jason Codner and Rodney Jones, full scholarships to cover costs of attending the convention. Congratulations!

The new officers for the 1999-2000 term have been elected. They are as follows:

Chair....................Jason Codner
Vice-Chair..........Heather Hoskins
Treasurer...........Emily Widmer
Secretary..........Kerri Bolluyt
On Sunday, April 18, 1999, the ISU Forest Product Society Chapter embarked for the spring meeting held by the Midwest section of the Forest Products Society. We traveled to the Forest Products Laboratory in Madison, Wisconsin. Art Brauner, Executive Vice President of the Forest Products Society, hosted the visit.

Historically, the U.S. Department of Agriculture Forest Service in 1910 established the FPL in Madison, Wisconsin and it remains there to this day. The lab’s purpose is to serve as a centralized wood research laboratory and to focus on the nation’s forest resources in order to provide the greatest good for all.

The FPL’s earliest work consisted of finding the best preservative for railroad ties, telegraph poles, and mine timbers. As a major issue in the development of the national laboratory, preservation and protection is still at the center of research today.

Monday began with a hearty continental breakfast and we then set off for the Forest Products Laboratory. Experts in the fields of wood anatomy, fungi, preservation, properties, uses, hazards, and finishing filled the morning with lectures.

The afternoon included a tour of the laboratory with the purpose of learning the ongoing projects in the several research areas of the FPL. The tour began at the Center for Wood Anatomy Research, which holds the largest collection of wood species in America. After learning a few tricks with ultra violet light in identification we moved on to the Fungal Herbarium. Here we learned some of how and why fungi attack wood. With this knowledge the ability to stop wood decay may be recognized.

Other projects included producing a marketable mushroom grown on unusable wood. From there we migrated to the Engineering Mechanics Laboratory where tests ranging from vibration to mechanical stress (bending, compression, etc.) could be preformed. For example, projects consisted of testing wood from 200 year old Alaska-cedar previously used in old military buildings in the early 1900s and testing the actual beams used in the construction of the warship “Old Ironsides”. The air laid, or mat forming, and the melt blend made up the two sections of the composite lab which finished off the tour. In the air laid section various substances are combined with wood fiber. These substances range from corn and straw fibers to old shredded money. The combination of melted plastics and wood resins and fibers in the melt blend section of the lab was just as fascinating. Here the technicians could make virtually any molded product desired. For instance, shovel handles to dashboards for automobiles.
Wood composite products made with a combination of wood fibers and other recyclable materials.

From left to right (standing): Elif Semen, Doug Stokke, Jeremy Moore, Craig Wilson, Kevin Burds, Todd Helander.
From left to right (kneeling): Tim Romans, In Yang.
This year's VEISHEA activities included the annual seedling sales, log bucking competition, and a special visit from Jim Clark of Timber Road Carvings. He impressed all with his unique chainsaw, wildlife sculptures.

Karen Johlas has her hands full purchasing seedlings, from the forestry club.

Eric Holzmueller and Heather Hoskins give it their best shot during the log bucking competition. Dr. Colletti and Dave Carter add a little leverage, and some team spirit to the competitors.
With a little coaching from Dr. Colletti, Kristi Bowes goes to great lengths to beat the competition.

Jim Clark working his magic!

Dave Carter showing off his blade.
1999 Forestry Students

Seniors
Wesley Adkins
Michael Anderson
John Byrd
Kevin Cox
Joseph Dixon
Paul Eker
William Ekwall
Ryan Elliott
Jeffrey Ellsworth
Jennifer Gade
Scott Gehl
Matthew Grubisich
Kelly Hanne
Jennifer Hare
Martha Heidelberger
Christopher Hosch
Jason Johnson
Ty Kirk
Shari Lindquist
Joseph Lundh
Brett Mason
Sunshine Penhollow
Timothy Romans
Kathy Shannon
Michelle Skibsted
Emily Stauffer
Joseph Tentinger
Denise Utomo
Faith Vawter
Craig Wilson
Rick Woten

Juniors
Dan Baumann
Justin Bott
David Carter
Jason Codner
Peter DeGroot
Jessica Grell
Todd Helander
Shawn Higbee

The Ames Forester...
Daniel Prazak
Nathan Quam
Eric Ramsey
Emily Teeters
Scott Wharton
Stacy Wickman

Freshmen
Brooke Arp
Keri Bolluyt
Brian Bovy
Jason Dallman
Levi Laurion
Todd Loynachan
Zack Ludwig
Adam Luhman
Todd Mathis
Derek Mercer
Clinton Miller
Richard Monserud
Joel Moscrip
Kimberly Proctor
Matthew Rusch
Lucas Smith
Justin VanHall
Jonathan VanZee
Lucas Voss
Nicholas Rosenboom
Graduating Seniors
Fall 1998

Back Row R-L
Ryan Clark............................................Wood Products
William Heber.............................................Forest Resource Management
Erik Stadsvold..............................................Wood Products
Edward Szabo..............................................Forest Resource Management
David Hansen...............................................Wood Products

Front Row R-L
Dustin Bachtell.............................................Forest Resource Management
Joset Etzel........................................ ............Forest Resource Management
Shannon Blocklinger........................................Forest Resource Management
Matthew Nurre..............................................Forest Resource Management

Not Pictured
Stacy Bazal...................................................Wood Products
Ryan Stampe...............................................Forest Resource Management

Graduate Students

Christopher Murrow...............................M.S. Forest Administration & Management
Mark Vitosh................................................M.S. Forest Administration & Management

Xiamoing Qi.............................................PhD Forest Biometry
Girma Tabor..................................................PhD Forest Biology

The Ames Forester...
Graduating Seniors
Spring 1999

Back Row L-R
Brian Dirks.................................Wood Products
Jay Guyer.................................Forest Resource Management
Jon Handrick.............................Forest Resource Management
Jamie Hart...............................Forest Resource Management
Brian Buenger.............................Wood Products

Front Row L-R
Robert Fink.............................Forest Resource Management & Political Science
Jason Clapper...........................Forest Resource Management
Scott Kluver.............................Forest Resource Management
Laura Revell.............................Forest Resource Management
Brannon Kirk............................Forest Resource Management

Not Pictured
William Ditmars........................Forest Resource Management
Shawn Hartzer..........................Forest Resource Management
Ben Kuennen.............................Forest Resource Management
Eric Nielsen.............................Forest Resource Management
Christopher Wicklund.................Forest Resource Management

...Iowa State University 1999
1999-2000 Forestry Department Scholarship Recipients

Evered Ihrig scholarship recipients (left to right): Amber Mayo, Adam Luhman, Jason Severe, and (not pictured) Jeff Shaw.

Forest Products Society book award winner Brian Dirks (left) and FPS Club membership award recipient Eric Ramsey (right)

Wes Adkins, recipient of the Andy Mathias Forestry Club Involvement Scholarship
George and Dorothy Thompson Award recipient Dave Carter pictured with Dorthy Thompson. Kristy Bowes and Greg Carpenter are also recipients of this award but are not pictured.

Xi Sigma Pi, Keith Bauer Award recipient Susanne Hasselhoff.

Matt Boisen recipient of the Gene Meyer Scholarship.

Emily Widmer recipient of the Kenneth Obye Scholarship, pictured here with Ken Obye.
Burkhardt Scholarship recipients (left to right) Corinne Kinnamon, Eric Holzmueller, Susanne Hasselhoff, and Kevin Cox.

Keri Bolluyt, recipient of the Chuck Tice Scholarship.

Shawn Higbee, recipient of the J. Milton Cone Scholarship.

Diamond Hitch Award recipients (left to right): Brian Dirks, Emily Teeters, Eric Holzmueller, Emily Widmer, and Jason Codner.

The Ames Forester...
Ladies and Gentlemen...
Once again, the 1999
I.S.U. Forestry Scholarship Winners

SAF Fall Sequence Leadership Award
Julie Swanson

Xi Sigma Pi Keith Bauer Award
Susanne Haselhoff

FPS Book Award
Brian Dirks

FPS Membership Award
Eric Ramsey

Diamond Hitch Award
Pres For Club- Eric Holzmueller
Ames Forester - Jason Codner, Emily Teeters, Emily Widmer
Pres SAF - Ty Kirk
Pres FPS - Brian Dirks

Douglas A. Valley Scholarship
Charles Lemoine

Andy Mathias Forestry Club Involvement Scholarship
Wes Adkins

Evered Ihrig Scholarship
Adam Luhman
Amber Mayo
Jason Severe
Jeff Shaw

George & Dorothy Thomson Scholarship
Kristy Bowes
Greg Carpenter
Dave Carter

Gene C. Meyer Scholarship
Matt Boisen

Chuck Tice Scholarship
Keri Bolluyt

Kenneth D. Obye Scholarship
Emily Widmer

J. Milton Cone Scholarship
Shawn Higbee

Burkhardt Conservation Scholarship
Kevin Cox
Susanne Haselhoff
Eric Holzmueller
Corrine Kinnamon
Ahh...Retirement...

Dr. Prestemon on Dr. Manwiller

After serving more than 20 years, the premier wood anatomist in the Department of Forestry will no longer be available with his hand lens and very sharp knife to identify wood samples and to characterize different species. Floyd came to us in December, 1978, from the bayou country of Louisiana. He was a productive Forest Service research scientist while serving under a rigid, demanding administrator. It was not easy to convince Floyd to come to ISU; it took two tries before George Thomson could sweet-talk him into joining our staff. But we figured we were really just bringing him home. Floyd is an Iowa native, an ISU forestry alum, and received his Ph.D. degree here under the inimitable Dwight Bensend.

Without a doubt, Floyd’s major interest at Iowa State has been on teaching and advising. Ironically, only within the last year or two has his appointment reflected his major interests. He is a very effective student advocate and a respected, well-liked teacher. Floyd also coordinated permanent job placement of forestry graduates for several years. Outside the department, he has served in the Faculty Senate, which has been both interesting and a bit frustrating for him.

Floyd Manwiller is a very dedicated family man. He spends tons of time helping his sons with home projects (even though they sometimes tip out of his truck). He is very devoted to his elderly parents in Cedar Rapids. Floyd is delighted that his two sons married wonderful Iowa women who have blessed him and Mary with five definitely above-average grandchildren which they enjoy spoiling.

Floyd has been very active in the Calvary United Methodist Church in Ames and in Kiwanis. He has enjoyed the intellectual stimulation generated by a modest number of consulting assignments and has found the workings of the lawyers and the judiciary system very interesting (although sometimes mysterious and inexplicable). And, Floyd enjoys playing cards and sometimes even wins, unless Paul Wray is out to get him.

Floyd intends to spend his retirement enjoying his family, restoring his antique car, making doll cradles for his grandchildren, relaxing, maybe sampling some of his son’s home-brewed dark beer, and perhaps doing some consulting.

Floyd will be missed very much in the Department of Forestry, and, as is often the case, his contributions will likely be even more fully appreciated after June 30, 1999. Jimmy Carter concludes in his book, The Virtues of Aging, by observing that, “You are old when regrets take the place of dreams.” Keep on dreaming, and enjoy a long, productive, healthy retirement. ♦

Floyd and Mary Manwiller
...It’s a beautiful thing!

Dr. Manwiller on Dr. Prestemon

Dean and I both obtained our forest products education under Dwight Bensend and would have been undergraduate classmates except that I spent four years in military service. I didn’t meet Dean until October of 1965 when he, a new Ph.D. from California, arrived to become an extension forester. I left four months later for the U.S. Forest Service in Louisiana with my graduate work completed.

When I returned to ISU to the forestry faculty in 1978, Paul Wray had joined Dean as the second extension forester and they had developed the first long-term, cohesive extension program for Iowa forestry. Dean has had a strong commitment to good forestland stewardship and to the best use of the wood products. When I arrived he was educating contractors and homeowners to the construction and maintenance of energy-efficient homes in response to the energy crisis that began in 1974. I also helped him construct two solar kilns, one on the Yellow River State Forest and one at the State Nursery, to evaluate and demonstrate their suitability as a low-energy alternative to dry kilns. We dried several loads of lumber in the nursery kiln and once proved, despite conventional wisdom to the contrary, that lumber can be casehardened in a solar kiln. He and Paul went on to introduce very successful forestry field days around the state, the nationally recognized Master Woodland Managers Program, the Woodland Owners Newsletter and numerous other successful educational programs.

In addition to his considerable extension responsibilities, Dean has been teaching a 2-credit course to students in the products option. The course covered all aspects of the use of the wood products in building construction. Several students have related to me their disappointment that it is no longer offered. One student who took the course stated that if one were ever to build a house the value of the knowledge learned would more than offset the money he had spent on tuition while at ISU.

Anyone who knows Dean Prestemon would agree that he is far more complex and interesting than the average individual. Words that come to mind include liberality, integrity, openness, and passion. In meetings, or one on one, Dean expresses his views forcefully and clearly and is frustrated when others aren’t willing to do the same. Once the group comes to a decision, he supports it regardless of his personal decision. Dean demands the highest standards of himself and of others. I purchased my last car with confidence from a

Dr. Prestemon receiving a plaque from Dr. Mike Kelly.
dealer because Dean praises the integrity of the service department; there are dealers who rightfully fear his wrath for work that doesn't meet his standards. Unlike me, he is not a procrastinator; he always finishes tasks quickly and completely.

Dean is personally very committed to equality for all. He believes passionately that society must care for the less fortunate and has written more than one pointed letter to the newspapers criticizing a perceived political or social injustice. Although Dean has been very committed to his professional life, Jean, their six children and their spouses are of far greater importance to him. And his grandchildren bring him more pleasure than he can express. Dean and Jean both retire at the same time, she from teaching. They could both keep busy just visiting family located all over the United States but they also expect to visit Europe and Dean always has projects for himself and for the family. Dean is a unique individual who cannot be replaced in the Department of Forestry. Staff meetings will, at times, have a little less passion, a slight narrowing of perspective, one less viewpoint based on principle. The DEO will receive less e-mail. The noon card game that has gone on for at least 20 years, and the camaraderie, will end with Dean's retirement. I also suspect there will be Dean Prestemon stories that will become more colorful as the years pass.

The Ames Forester...
“It does not take a professional to cut trees or saw them into timber. Because the role that has been traditionally associated with the forester is that of a technician, there must be more to our education than the mere transmission of facts. We must strive to be a servant of the land, the true sense of the term ‘land manager’, and not just an educated ‘timber beast’.”

Richard Schreyer
Joe Colletti received his Bachelor of Science Degree in Forestry from Humboldt State University in 1972. He received his Master of Science in 1974, and his Ph.D. in 1978 are in Forest Economics from the University of Wisconsin, Madison. He has been a member of the Forestry Faculty at Iowa State since 1978.

Teaching
Dr. Colletti has a 55% teaching appointment. His current courses include Multiple Use/Decision Making (FOR 204), Integrated Forestry Laboratory (FOR 205), Forest Resource Management (FOR 452), Forestry Grad. Seminar (FOR 510), Advanced Quantitative Methods in Forestry (FOR 550), Resource Allocation in Forestry (FOR 570), and Advanced Topics in Forest Econ (FOR 654), as well as guest lecturing in Public Lands (ENV. ST. 326).

Research
Dr. Colletti has a 45% research appointment. His research emphasis in the economics of short rotation woody crops, agroforestry systems, the integration of forestry and agriculture via mathematical programming models, and optimizing private forest resource management.

Mike Kelly received his Bachelor of Science Degree in Biology from East Tennessee State University in 1966. He received his Master of Science Degree in Plant and Soil Science from University of Tennessee in 1968, and in 1973, he received his Doctor of Philosophy Degree from the University of Tennessee in Forest Ecology and Soils. Dr. Kelly spent 21 years as a research scientist/research manager with the Tennessee Valley Authority before he assumed duties as the 7th Chair of the Department of Forestry in October, 1995. Dr. Kelly is a Fellow of the Soil Science Society of America and he was recognized by TVA for research accomplishments.

Teaching
Dr. Kelly holds a 5% appointment in teaching, of which includes FOR (104) and HORT (529).

Research
Dr. Kelly’s research interests are focused on soil-plant interactions with emphasis on tree nutrition-environmental stress interactions, and modeling the mechanisms of soil nutrient supply and tree uptake. His research appointment is 90%, and a 5% appointment in extension. Although approximately 75% of his time is occupied in administrative duties in the department. He continues to develop research in the areas of forest soils and tree nutrition.
David Countryman received his Bachelor of Science Degree and his Master of Science Degree in Forest Management from Iowa State University in 1966 and 1968 respectively. He received his Doctor of Philosophy Degree in Forest Management and Planning from University of Michigan in 1973. He has been a member of the Forestry Faculty at Iowa State since 1975.

Teaching
Dr. Countryman has a 62% teaching appointment. His current courses include Multiple Use Decision Making (FOR 204), Integrated Forestry Laboratory (FOR 205), Fire Protection (FOR 390), Resource Policy (FOR 453), Forest Resource Case Studies (FOR 454), and Advanced Forest Resource Management (For 594).

Research
Dr. Countryman has a 38% research appointment. He is currently conducting research on contour buffer strips which contributes to the departmental agroforestry research focus.

Richard Falconson received his Bachelor of Science Degree in Horticulture from Iowa State University in 1977. He has been a member of the Forestry Department since 1970.

Teaching
Although Mr. Falconson does not have a teaching appointment, he provides excellent teaching support. He has co-taught an experimental offering of urban forestry emphasizing arboriculture, and he has co-taught a Nursery Science course. He contributes to the forestry teaching program both in the classroom and in field settings.

Research
Mr. Falconson has a 100% research appointment. He is a research coordinator/project coordinator for the Iowa State University agroforestry research team (IStART). He specializes in 1) the propagation and culture of woody plant materials used in temperate agroforestry systems, 2) cultural management of agroforestry systems including riparian buffer strip systems, woody and herbaceous biomass-for-energy systems, and woody and herbaceous food crop systems. He is an investigator with Dr. Richard Schultz, Dr. Joe Colletti, and others on the Bear Creek Riparian Buffer Strip Agroforestry Project and the Ames Agroforestry Biomass/Biosolids-for-Energy Project. Mr. Falconson is also co-leader of a new international agroforestry project involving the Philippines.
**Roger Hanna** received a Bachelor of Science Degree in Forestry from Iowa State in 1969. In 1972, he received a Bachelor of Science Degree from Iowa State in Farm Operations. He received his Master of Science Degree in Forestry from Iowa State in 1985. He has been a member of the Forestry Department since 1984.

**Research**
Mr. Hanna has a 100% research appointment. His responsibilities as a Field Research Coordinator in the Forestry Department involve providing support for research projects, particularly for those projects involving field activities.

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**Ann Holtz** earned her Bachelor of Science Degree from Northwest Missouri State University in 1991 and has been a secretary in the Forestry Department since 1994. Previous to that, she worked with the Registrar’s Office at Northwest Missouri State University.

**Teaching**
Ann serves as the advising secretary for undergraduate programs in the Forestry Department. She has responsibilities for maintaining all undergraduate records, helping students and faculty with necessary paperwork, and assisting with student orientation. Other responsibilities include coordinating department displays, Larson Arts Lottery, Co-editor of the Alumni Newsletter, and assistance to departmental clubs.
Steve Jungst received his Bachelor's degree in Forestry with an option in Forest Resource Management from Iowa State University in 1969. He received his Master of Science degree in Forestry (Biometry) in 1976, and his Ph.D. in Forestry (Biometry) from Iowa State in 1978. He has been a member of the Forestry Faculty since 1974. Dr. Jungst is also a Fellow of the Society of American Foresters.

Teaching
Dr. Jungst's current courses include Orientation in Forestry (FOR 110), Resource Measurements/Evaluation (FOR 203), Management of Small Forest Properties (FOR 310), Natural Resource Photogrammetry and Photo Interpretation (FOR 345), and Seminar (FOR 510). During Fall, 1999, he will serve as one of the Fall Camp Instructors along with Jan Thompson. In addition, he serves as Chair of the Forestry Curriculum Committee.

Research
His research interests are in remote sensing and use of Geographic Information Systems. He is currently conducting research on the Bear Creek Watershed as a part of the department's focus on agroforestry research.

Monlin Kuo received his Bachelor of Science in Forestry from Chung-Hsing University in 1965. He received his Master of Science Degree in Wood Science from University of Missouri, Columbia in 1971, and in 1977, he received his Doctor of Philosophy Degree in Wood Science and Technology from University of California, Berkeley. Dr. Kuo joined the Forestry faculty at ISU in 1980.

Teaching
Dr. Kuo has a 49% teaching appointment. His current teaching responsibilities include Harvesting & Wood Utilization (FOR 202), Integrated Forestry Laboratory (FOR 205), Chemical Conversion of Wood (FOR 481), Wood Deterioration and Preservation (FOR 483), Mechanical Conversion and Physical Properties (FOR 487), and Advanced Topics in Wood Science (FOR 587).

Research
Dr. Kuo has a 51% research appointment. His research interests are in the area of wood adhesion and adhesives. He is currently conducting research on the use of starches and soy proteins for wood composite products.
Jan Meyer received her Bachelor of Science Degree in 1972 from Northwest Missouri State University. She is pursuing a Master’s Degree in Public Administration. Jan came to the Forestry Department in April, 1997 with a background in Educational Administration and experience with office, grant and budget management. Her position as Administrative Specialist is as a supervisor, monitor of budgets, grants and contracts, co-editor of the Alumni Newsletter, and department liaison with students and the public.

Sande McNabb earned his Bachelor of Science Degree from University of Nebraska-Lincoln in Botany and Chemistry in 1949. He received his Master of Science Degree in Plant Science and Forestry from Yale University in 1951, and in 1954, he received his Doctor of Philosophy Degree in Forest Pathology and Plant Physiology, also from Yale University. Dr. McNabb came to ISU in 1953.

Teaching
In addition to his teaching responsibilities in Plant Pathology, Dr. McNabb also teaches in the Forestry Department. He participates in Wood Deterioration and Preservation (FOR 483), Community Tree Management (FOR 475X), and he team teaches Forest Pest Management (PIP/FOR 416) with Dr. Elwood (Woody) Hart.

Research
Dr. McNabb’s research interests lie in the area of forest pathology, wood deterioration, and in vitro (including genetic transformation) culture of woody plants. Dr. McNabb and Dr. Richard Hall have recently received transgenic hybrid aspen from Nippon Paper Company of Japan as the beginning of a 5-year research project with that company.
Patricia Negreros-Castillo earned her Bachelor of Science Degree in Agro-Chemistry in 1976 from the University of Puebla, Mexico. She earned her Master of Science Degree in Ecology and Natural Resource Management in 1983 from the National Research Institute for Biotic Resources in Xalapa, Mexico, and in 1991, she earned her Doctor of Philosophy Degree in Forestry with emphasis in Biology from Iowa State University. Before joining the ISU Forestry Department, she served as the Head of the Forestry Research Program for INIFAP in Mexico. She has been with the Department of Forestry at ISU as an Associate Scientist since 1994.

**Teaching**

Dr. Negreros-Castillo’s teaching duties involve Forest Biology (FOR 201), Integrated Forestry Laboratory (FOR 205), Agroforestry Systems (FOR 560X), and a study abroad course in the Yucatan (FOR 590).

**Research**

Dr. Negreros-Castillo has a 100% research appointment. Her research interests are in the area of tropical silviculture and agroforestry. She is currently developing a research project which will contribute to the department’s research focus in agroforestry.

Carl Mize received his Bachelor of Arts Degree in Math and Chemistry from Brockport State University in 1969. He received his Master of Science Degree in Forest Ecology from Humboldt State College in 1973, and in 1977, he received his Doctor of Philosophy Degree in Quantitative Silviculture from the College of Environmental Science and Forestry, SUNY. Dr. Mize has been a member of the Department of Forestry at ISU since 1977.

**Teaching**

Dr. Mize has a 29% teaching appointment. His current teaching responsibilities include Integrated Forestry Laboratory (FOR 205), Dynamics of Forest Stands (FOR 342), and Forest Biometry (FOR 543).

**Research**

Dr. Mize has a 71% research appointment. His research interests lie in the area of forest biometry, forest growth and yield, and agroforestry. He is currently conducting research on modeling the impacts of field shelterbelts on crop production and on growth and yield of hybrid Poplars and other fast growing trees on floodable and highly erodible soils in Iowa.
Chuck Rodrigues received his Bachelor of Science Degree in Chemistry from Southeastern Massachusetts University in 1985. In 1990, he received his Master of Science Degree in Plant Pathology from Iowa State University. Chuck joined the Forestry Department in 1992.

Research
Mr. Rodrigues has a 100% research appointment. His responsibilities involve supervision of the Forest Biology research laboratories, assistance with research projects utilizing those research spaces, and research involvement in water quality related to riparian buffer strips.

Lita Rule received her Bachelor of Science Degree in Forestry Extension from University of the Philippines at Los Banos in 1975. She received her Master of Science Degree in Forest Resources Management from University of the Philippines in 1982, and in 1988, she received her Doctor of Philosophy Degree in Forest Economics from Texas A&M University. She has been a member of the Forestry Department at ISU since 1989.

Teaching
Dr. Rule has a 41% teaching appointment. Her current teaching responsibilities include Multiple Use Decision Making (FOR 204), Integrated Forestry Laboratory (FOR 205), Forest Resource Economics and Quantitative Methods (FOR 451), Forest Resources Management (FOR 452), and Forest Planning and Administration (FOR 455). Dr. Rule also serves as one of two primary advisors for all new freshmen, Sophomores, and new Transfer students in the department.

Research
Dr. Rule has a 59% research appointment. Her research interests lie in the area of agroforestry and forest industry with emphasis on forest economics. She is currently conducting research on agroforestry systems which are applicable in midwestern settings, and she has recently begun work on a joint agroforestry project involving Mexico and the U. S. Forest Service Center for Agroforestry.
John Smith received his Bachelor of Science Degree in Forestry from Iowa State University in 1994. He joined the Department as a Research Associate in Wood Science in 1995.

Research
Mr. Smith has a 100% research appointment. He provides research support for several new projects in urban and community forestry. He is currently involved in the development of community forestry outreach projects with Department of Forestry Extension staff. He also participates on the Department Safety Committee.

Doug Stokke received his B.S. degree in Forest Products with a minor in Industrial Engineering from Iowa State University in 1980. In 1982, he received his M.S. degree from University of Minnesota in Forest Products/Industrial Engineering-Operations Research. Doug’s Ph.D. degree is in Forest Biology/Wood Science from Iowa State University, received in 1986. Before coming to Iowa State, Doug served as an Assistant Professor at Michigan Technological University and then as a Forest Products Technologist with the USDA Forest Service at the Northeastern Forest Experiment Station. Doug is currently an Associate Scientist and Adjunct Professor in the Forestry Department at Iowa State. He will be joining the staff as a Faculty member July 1, 1999. Doug’s areas of responsibility will be in research and extension.
**Mark Vitosh** received his Bachelor of Science Degree in Forestry with an Option in Forest Management from Iowa State University in 1988. Before returning to the Department as an Extension Program Assistant, he worked as a Service Forester with the Oklahoma Department of Agriculture for four years, and as a Research Associate with the Department of Plant Pathology at ISU for 1 year. He received his Master of Science Degree in Forestry from Iowa State University in 1998. He has been a member of the Forestry Department since 1994.

**Extension**
His responsibilities include program coordination for all Extension Forestry Urban & Community Forestry Programs and Youth Education Programs. Specific program responsibilities include the Iowa Community Tree Steward Program, Iowa Community Tree Workshop Program, and the Tree Steward Program For Youth. He assists individuals with inquiries relating to urban and community forestry and woodland management. Mark also helps coordinate recruiting efforts in the Forestry Department.

**Jan Thompson** earned her Bachelor of Science Degree in Forestry (with an emphasis in forest soils) from Michigan Technological University in 1981. She earned her Master of Science Degree in Agronomy (Soil Morphology and Genesis) from Iowa State University in 1984, and in 1991 she earned her Doctor of Philosophy Degree in Forestry with emphasis in Biology from Iowa State University. She joined the Forestry Department as an Associate Scientist in 1994 and became an Assistant Professor in 1998.

**Teaching**
Dr. Thompson’s current teaching responsibilities involve Forest Biology (FOR 201), Integrated Forestry Laboratory (FOR 205), and Community Tree Management (FOR 475) (also listed as HORT 475 and Pl. HP 475) and Urban Forest Resource Planning and Policy (FOR 476). During fall, 1999, she will serve as one of the Fall Camp Instructors along with Steve Jungst.

**Research**
Dr. Thompson’s research interests include urban and community forestry, sustainable management of community forest resources, and establishment of trees transplanted into urban settings.
Paul Wray received his Bachelor of Science Degree in Forestry with an Option in Forest Management from Iowa State University in 1968. In 1974, he received his Doctor of Philosophy Degree from ISU in Forest Biology. Dr. Wray's professional interests are in forest management, biology, Christmas trees, windbreaks, urban & community forestry, and extension education. He has been a member of the ISU Forestry Department since 1975.

Extension
Dr. Wray has a 100% extension appointment. His duties in extension include coordinating Forestry Field Days, Forestry Educational Programs, and Windbreak Schools. He also assists individuals with inquiries relating to all aspects of woodland management and urban and community forestry.

Cindy Upah has been a secretary in the Forestry Department since January, 1999. If you call the department, there is a good chance that the first voice you hear will be hers.

Teaching
Cindy serves as the secretary for graduate programs in the Forestry Department. In that role, she has responsibilities for maintaining graduate records, serving on the departmental Graduate Admissions Committee, and for assisting graduate students with necessary paperwork related to their graduate study.

Extension
Cindy also works with the extension foresters in the department. She handles requests for extension publications, directs extension inquiries to the proper faculty or staff extension personnel, and assists with maintenance of extension publication supplies.
Richard Hall received his Bachelor of Science Degree in Forest Management from Iowa State University in 1969. He received his Doctor of Philosophy Degree in Plant Breeding/Plant Genetics (Forestry) from the University of Wisconsin, Madison in 1974. He has been a member of the ISU Forestry Faculty since 1974.

Teaching
Dr. Hall has a 47% teaching appointment. His current courses include Introduction to Forestry (FOR 120), Silviculture (FOR 302), Forest Tree Improvement and Genetics (FOR 501), and Advanced Forest Ecology and Silviculture (FOR 504).

Research
Dr. Hall has a 53% research appointment. His research focuses on genetic selection and intensive silviculture. He is currently involved in selection of genetically superior hybrid Poplar for use in short rotation fiber production. Dr. Hall is also a member of the Interdepartmental Genetics Major faculty. Along with Dr. Sande McNabb, Dr. Hall has recently received transgenic hybrid aspen from Nippon Paper Company of Japan as the beginning of a 5-year research project with that company.

Tom Harrington received his Bachelor of Science Degree in Plant Pathology from Colorado State University in 1977, his Master of Science degree in Plant Pathology from Washington State University in 1980, and his Ph.D. in Plant Pathology from the University of California at Berkeley in 1983. He was on the faculty of the University of New Hampshire from 1983 through 1990 as an Assistant Professor, Associate Professor and Chair of Botany and Plant Pathology. He has been a member of the ISU Plant Pathology Department since 1991 and has had a joint appointment in the Forestry Faculty since 1996.

Research
Dr. Harrington’s research focuses on pathogens in forest trees. Most of these studies involve the genetics, evolution or taxonomy of fungi and their populations on forest trees. A new bacterial disease of ash, fungi on poplars, fungi associated with bark beetles, the genus Ceratocystis, and root and butt rot fungi (Armillaria and Heterobasidion) are specialties. Dr. Harrington is also a member of the Interdepartmental Genetics Major faculty and the Ecology and Evolutionary Biology Major faculty.
Dick Schultz received his Bachelor of Science Degree in Forestry with an option in Forest Management from Iowa State University in 1965. He received his Master of Science Degree in Forest Biology from Iowa State in 1968, and in 1970, he received his Doctor of Philosophy Degree, also in Forest Biology from Iowa State. Before joining the faculty at Iowa State, he worked as the Head Environmental Coordinator for the Iowa Department of Transportation for two years and as a faculty member in the Department of Forestry at the University of Georgia for 7 years. He joined the Forestry faculty at ISU in 1979.

Teaching
Dr. Schultz has a 51% teaching appointment. His current teaching duties include Forest Ecology (FOR 301), Forest Watershed Management (FOR 407), Advanced Forest Ecology and Silviculture (FOR 504), and Tree Growth and Development (FOR 603).

Research
Dr. Schultz has a 49% research appointment. His research interests are in Forest Ecology and Hydrology and Agroforestry with emphasis in the ecology and hydrology of riparian zone management systems, short-rotation woody crops, groforestry systems, the integration of forestry and agriculture; nursery production of large hardwood seedlings, and establishment of oak and walnut plantations. Dr. Schultz also serves as Chair of the Agroecology Issue Team for the Leopold Center for Sustainable Agriculture.

Tom Isenhart received his Bachelor of Science degree in 1983 in Botany and Environmental Studies at Iowa State University. In 1988, he received his Masters in Water Resources, and in 1992, he received his Ph.D. in Water Resources, also from Iowa State University. Tom first came to the Forestry Department in 1994 as a Post-doctoral research associate. He is currently an Associate Scientist and Adjunct Assistant Professor in the department.

Research
Dr. Isenhart’s research interests include design and establishment of landscape buffers to improve the environmental efficiency of farming, biogeochemistry of nitrogen in agroecosystems, transformation and fate of nitrate in freshwater systems, aquatic ecology, and the physical and chemical interactions between groundwater and surface water.
Woody Hart earned his Bachelor of Arts Degree in Biology from Cornell College in 1959. He earned his Master of Education Degree in Science Education from Texas A&M University in 1965, and in 1972, he earned his Doctor of Philosophy Degree in Entomology, also from Texas A&M. He came to the Entomology Department in 1974, and was appointed Professor in Forestry in 1989.

Teaching
Dr. Hart has a 55% teaching appointment in Entomology. In addition to the courses he teaches there, he also teaches courses in Forestry. Those courses include Forest Pest Management (PIP/FOR 416) with Dr. Sande McNabb, and Wood Deterioration and Preservation (FOR 483) with Dr. Monlin Kuo.

Research
Dr. Hart’s research interest is forest insects in urban and woody biomass plantation systems, including agroforestry. His specific interests are in determining the impact of economic species and in the plant-insect interface, particularly in the mechanisms responsible for resistance to attack. Other research is in the study of within-plantation dispersal and the definition and conservation of natural enemy complexes. Dr. Hart’s research is done in cooperation with personnel from the departments of Forestry and Plant Pathology.

Dr. Assibi Mahama received his B.Sc. degree in Agriculture (Crop Production) from University of Ghana, Legon in 1986. In 1993, he received his M.S. in Plant Breeding and Genetics from University of Nebraska, Lincoln,. In 1998, he received his Ph.D. in Plant Breeding and Genetics from Iowa State University.

Research
Dr. Mahama’s research involves Poplar breeding and genetics. He is currently assisting in selection of genetically superior hybrid Poplar for use in short rotation fiber production.
Dr. Miguel Pietrengeli received his Licenciatura in biology from Universidad Central de Venezuela in 1985. In 1997, he received his Ph.D. in Biology-Plant Ecology from Universidad Central Venezuela. He is currently working in the ISU Forestry Department as a Visiting Scientist. Before coming to Iowa State, he served as an Assistant Professor, an Aggregate Professor, and an Associate Professor at Universidad del Zulia. He has had teaching experience in Tropical Forest Ecology, Vascular Plant Systematics, Plant Ecology, Vegetation of Venezuela’s West Region, and Introductory Botany.

Research
Dr. Pietrengeli’s research interests are in the area of forest ecology, ecosystem ecology of tropical and temperate forests, Montane and cloud tropical forests, vascular plants, productivity and nutrient cycling, and restoration ecology. His research emphasis is in Floristic and ecological characterizations of subwatersheds within the great basin of the Maracaibo Lake, Venezuela.
Graduate Students

Bill Edwards

Chris Feeley

Dan Anderson

David Webber

The Ames Forester...
Joyce Pickle  
Rick Maiers  
Rebecca Mack  
Robert Grala
D. Abugarshall Kai