GOPHER

PEAVEY

1984
Our staff takes a great deal of pride and admiration in dedicating the 1984 Gopher Peavey to Richard A. Skok, in this, his tenth year as Dean of the College of Forestry. We are proud of the leadership and service orientation he has provided and we admire his position and pleasant attitude in working with students.

Dean Skok is a St. Paul native graduating from the College of Forestry with a Bachelor of Science Degree in Forest Management in 1950 followed by a PhD Degree ten years later. The Dean was a very active undergrad in intramural sports (football, basketball, softball, baseball); four year member of the Forestry Club and was chair of the 1950 Foresters Day; was a student member of Alpha Zeta and Xi Sigma Pi and worked the summers of 1947-48-49 in the Superior, Marquette and Payette National Forests, respectively.

In his gracious manner the Forester's Day 1950 — As reported by Dick Skok in the Gopher Peavey of that year, noted that "As usual, the credit for all the hard work to make Foresters Day 1950 so successful cannot be given to any one individual. Rather, it can be attributed to all the members of both the Forestry and Lignum Clubs who willingly helped in every way." Another item in that same year's Peavey, then impressionable student now Dean wrote "It was the worst fire season on the Payette since 1931," the old-timers in Idaho told me and I was certainly inclined to believe them. In my three months' stay here 35,000 acres were burned over by 121 minor fires and five project fires, the largest of which covered 16,000 acres."

Dean Skok has been associated with the College of Forestry as undergraduate and graduate student, research assistant, Assistant Professor, Associate Professor, Professor, Associate Dean and Dean for approximately the past 35 years. He served under now Dean Emeritus Frank Kaufert as Associate Dean from 1970-74 and became Dean of the College in 1974. The Dean did spend a year, 1958-59, away from Campus as an Assistant Professor at the University of Idaho.

Faced with a back-breaking schedule of meetings, conferences and business trips, the Dean's office door is always open to students, faculty and staff. He manages to find time for everyone. Dean Skok has led the College through trying periods of retrenchment and reallocation (famous university household words), faculty and staff turnover and changes in student attitudes. This leadership has strengthened and moved an already solid academic institution into the forefront of colleges of Forestry in the United States. With all his administrative responsibilities and unending commitments, the Dean still finds the time and energy to conduct research, having just this Fall been awarded a research grant from the USDA Forest Service, North Central Forest Experiment Station (NCFES) to study the Comparative Costs of Producing Wood Grown from Short-Rotation Plantations.

Dean Skok is currently and has been for the past several years, working extremely hard toward the realization of the Green Hall Addition and Remodeling Project. He is hopeful that the request for working drawings will be part of the official University of Minnesota Capitol Improvement Request. We, as students, are also hoping that we will have the opportunity to see these much needed facilities realized before many of us are alumni. We feel confident that will happen.

Thank you Dean Skok. Thanks for everything.
Gopher Peavey
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ADMINISTRATIVE NEWS
Dean's Report
1983-84
College of Forestry
by R.A. Skok, Dean, College of Forestry

This marks the tenth annual report I have made through the Gopher Peavey as Dean. These reports provide a unique opportunity to note important developments from the collegiate perspective. It also leads one to reflect on the many changes that have occurred during this 10-year span as past reports are reviewed. Forestry has made significant strides in the state of Minnesota over the past 6-7 years. There has been strong legislative and executive leadership in state government making this a public policy priority, particularly as this relates to state and county forest lands. To date there has not been a similar emphasis for research and education programs of the College of Forestry. The University has not given our programs the priority consideration needed to enable these programs to contribute as fully to the making of this state's new forestry future as we believe should be the case. We do continue to reallocate as opportunities arise and to seek outside sources of public and private support to enrich our education and research efforts to this end.

On an all-University basis tuition for students is now established on an approximate cost basis by the college of enrollment. This has meant a substantial tuition increase for our upper division and graduate students beginning fall quarter 1983. We also were retrenched another $35,000 of instructional funding and what amounts to approximately 4 percent in our research program this past year. The retrenchment in instructional funds was taken entirely from the support budget of the Cloquet Forestry Center based on an overall college retrenchment plan developed in 1982-83.

Overall enrollment in the College stood at 399 undergraduates for fall 1983. After adjusting for the transfer to our college of the fisheries and wildlife undergraduates, it appears we had little enrollment change over the previous year. Our graduate student registration is slightly higher but the official figures were not available at the time this was written in November. In total the forestry, the fisheries, and the wildlife graduate programs have about 120 majors active at this time.

The fisheries and wildlife programs, faculty, students, and staff, formerly in the Department of Entomology, Fisheries, and Wildlife, officially joined the College of Forestry on July 1, 1983. They form a new department in the College and will continue to be housed in Hodson Hall. Ira Adelman, an associate professor of fisheries, was appointed head of this unit effective October 1, 1983. We believe that this change will bring about new opportunities for cooperative education and research efforts in the renewable resources in the near future.

Marvin Bauer joined the College of Forestry in October as the director of the Remote Sensing Laboratory and as a professor in the Department of Forest Resources. Marv had previously been a research associate at the Purdue University's Laboratory for Applications of Remote Sensing (LARS).

Alan Ek has been serving as acting head of the Department of Forest Resources since August 1, 1983. Greg Brown resigned as head effective that date to assume his new position as dean of the College of Forest Resources at the University of Maine.

In late October Ann Mayhew was appointed to the vacant position of assistant to the dean in the College of Forestry. Ann received her M.S. degree in recreation resource management in 1981 from Minnesota.

The Forestry Alumni Society, which is a constituent group of the Minnesota Alumni Association, had a busy first year. We consider all alumni of the College of Forestry as members in the sense they are invited to participate in meetings and programs. Wherever possible we encourage them to join and support the Minnesota Alumni Association, the Society's parent organization. Marna Butler-Fasteland ('80) currently serves as president succeeding Terry Helbig ('69). Both have provided excellent leadership in organizing this extremely important college support group. Our alumni continued their strong record of annual private gifting this past year. While the sums raised are modest in total, they are extremely meaningful as discretionary monies to support those small extras that are so important to students and staff and occasional visitors.

We continue to work to gain support for the addition to and remodeling of Green Hall. I am increasingly concerned about the impact that our present inadequate facilities and equipment will have long term on our programs. As we seek to bring the new scientific developments to bear on forest resources problems, we find students and faculty frustrated by not having access to needed laboratories and modern equipment. With the substantial and growing importance of the forest resources to this state's economic and environmental well-being, it is imperative that this capital investment be made. The funding required for this project represents less than 2 percent of the forest industries total capital investment in Minnesota in the past 5 years, or put another way, less than 1 percent of the annual value added by this industry in the state. All who have studied Minnesota's forestry future agree that public policy commitment to an assured long term timber resource is critical. This project represents the essential forestry research and education link to that future.

Overall, the vitality of our faculty remains high. They are an exciting highly competent group to work with in carrying out our educational and research mission.
service as well as an enriching student experience. Different and highly important needs can be served. However, our resources are limited. We have a sense of priorities for the programs we conduct and for their content. These are based on a variety of factors not the least of which is the feedback from the important network of those with whom we have contact in the natural resources community. As a part of the University of Minnesota, we also are influenced by overall University objectives and seek as well to capitalize on the comparative advantages this strong research/graduate education institution offers for our programs.

Your constructive advice can be most helpful as we seek to chart directions for the years ahead. Each of us on the faculty or in administrative roles brings a perspective not only to our courses but to the shaping of curriculum and the research needs to be addressed. As temporary stewards of a forestry school with more than 80 years of accomplishments, we believe our graduates and students can be our most helpful critics and supporters.

Department of Forest Resources
— Addressing New Opportunities —

by Alan Ek, Acting Department Head

The Department of Forest Resources is developing new strengths and initiatives as faculty interests expand and new faculty join the department. Undergraduate curricula in forest resources and forest science and the new urban forestry curriculum are continually adapting to new professional needs. The faculty are altering and adding courses to meet the challenges evolving from changes in our society and increasing demands upon forests for multiple benefits. Areas receiving increased emphasis include communication and quantitative skills, urban forestry, hardwood silviculture, regeneration technology, industrial forest management and environmental monitoring. The department is also reaching out through its teaching and extension faculty by offering a forest management correspondence course to forest landowners.

On another scene, the faculty have become more and more active in international forestry, particularly as it relates to the educational and research needs of developing regions.

Among changes in the faculty over the last two years, the newest addition is Dr. Robert K. Dixon, a specialist in mycorrhizae and hardwood forest regeneration, who joins the staff as silviculturist. Visitors to Green Hall will witness dramatic changes in the biological laboratory facilities corresponding to Dr. Dixon's initiatives. Dr. James A. Perry is another recent faculty addition who promises us a much stronger role in environmental quality research and education, particularly in the area of water resources management and water quality. We were also very pleased to add Dr. Melvin J. Baughman as extension forester and program leader for renewable resources extension. Dr. Marvin E. Bauer, from the Laboratory for Applications of Remote Sensing at Purdue University, has also joined us recently as Professor and Director of Remote Sensing Laboratory. At Cloquet, Research Fellow Robert Stine has joined us to coordinate the Cooperative Tree Improvement Program.

The department is not without its losses, however. Our Department Head since 1978, Dr. Gregory N. Brown, left in August 1983 to assume the position of Dean of the College of Forest Resources at the University of Maine. We will sorely miss Greg's leadership, but look forward to his input to the profession from his new position. We also lost Dr. Thomas Lillesand to the University of Wisconsin where he will direct their Environmental Remote Sensing program. During 1983, Ray Carson, former city forester of Duluth, was most helpful in teaching the first urban forestry courses we have offered. The Urban Forestry program is now firmly in place and we owe Ray a debt of gratitude. We wish him well in his new work in Hawaii. Two faculty, Dr. Egolfs V. Bakuzis and Dr. Henry L. Hansen, moved to Professor Emeritus status in 1982, but as they continue to be active, their new status has not diminished the Department's efforts. We do want to express our appreciation to them for many years of excellent service and valuable contributions.

Much of the Department of Forest Resources' annual budget supports research activities and almost half of this budget comes from research contracts with agencies external to the University of Minnesota. The Department has attempted to maintain a balance between basic and applied research and also to use new technologies that offer potential for forestry. Most of you who read professional journals regularly will notice that the faculty continues to be highly active in research and in professional and technical organizations.

Some recent topics addressed by the department's research programs are wood for energy, artificial regeneration including containerized tree seedlings, genetic improvement of trees through selection and breeding, stress physiology of planting
stock, growth and yield of Populus coppice stands under intensive culture, water quality, the implications of peat mining on water quality, site classification of peatlands and wet mineral soils, utilization of stands containing mixed hardwoods, farm shelterbelt management, use of fire to manage natural areas and benefit/cost analyses relating to land use decision making. Recreational activities, the users, and the land base upon which they depend also are being studied with respect to impacts and opportunities. In the area of remote sensing, vegetation and land use monitoring programs are being developed utilizing both conventional and satellite-based imagery, small format photography, and video for local government and public agency use.

These research projects also provide funding and a basis for much graduate instruction. Further, they provide insight and new ideas that are constantly being integrated into undergraduate instruction at St. Paul, Cloquet and Itasca.

It is apparent that our next forest and the state's economy will be heavily dependent upon research activities we undertake. During the rest of the 1980's we will be conducting research on intensive silvicultural systems as well as improved utilization of existing timber stands. Our hydrology and biology staff are giving acid deposition high priority. Biotechnology applications, particularly in forest regeneration, will receive emphasis. The energy issue is being addressed at a range of levels including silvicultural opportunities, utilization potential and economic factors.

On the international front we will see increasing faculty involvement in developing countries. Dr. Dietmar Rose has been on a Kellogg Foundation Fellowship Program for the past year to study in South and Central America. Dr. Ken Brooks has been on sabbatical as a fellow in the East-West Environment and Policy Institute in Hawaii considering international aspects of forest watershed land use. Dr. Hans Gregersen continues to play a pioneering role in developing assessment methodology for forestry projects in developing countries. The Remote Sensing Lab, with the recent visit to Morocco by Research Fellows Doug Meisner and Bill Johnson, should extend our capabilities to assist in resource assessment around the world.

The program in recreation resource management has been highly active in instruction during the past year. Seniors conducted a resource analysis of Rice Creek Watershed as a part of the Resource and Community Development Seminar. This year's group is working on the planning of an urban trail utilizing an abandoned right of way of the Soo Line. The project is being carried out in cooperation with the Minnesota Department of Natural Resources.

In extension we are seeing much activity in the logging area by Scott Reed on topics such as workmen's compensation, business methods, contract considerations and safety. Extension also offers educational programs in forest management for private woodland owners, in continuing education programs for foresters, in windbreak design for farmers and in Christmas tree and maple syrup production.

The past year has been an exciting one in terms of questions arising from State government concerning the priorities in education, research and extension. It appears that forest management is receiving a high priority. We are nearing a midway point in the 1980's and it is evident that much is happening within our program and around us. The latter half of this decade should be one of substantial new challenges and growth in our effectiveness.
The year 1983 was an active and productive one for the faculty and students in the Department of Forest Products. Although the economic recovery of the forest products industry was not as strong in all sectors as many had hoped, there is optimism that 1984 will be a better year, both in building materials and the pulp and paper industry. I'm sure this will result in a stronger employment situation for graduates than we experienced in 1982-83. Hopefully in 1984 we will be back to the position of being able to say that almost all of our graduates find interesting opportunities for employment in the industry immediately upon graduation.

Two major developments are underway in our undergraduate program this year. The first is the initiation of a cooperative program in which some students can spend approximately one-half of the year working for a cooperating industry and the other half in school. To date, we have only interested a few firms in joining the program but our goal is to have 10 firms in the program this year. The first is the initiation of a cooperative industry. We would certainly be delighted to discuss cooperating industry. We would certainly be delighted to discuss cooperative program with any firms who would like more details.

The second development is being finalized by the curriculum committee and the final details being worked out with the University of Idaho. This arrangement will allow students in the College of Forestry at the University of Minnesota to study harvesting technology at the University of Idaho during their senior year. The students will spend the first three years on the University of Minnesota campus and the last three years in Idaho. As part of the cooperative effort with the University of Idaho, we are also developing a complementary program whereby pulp and paper students from the University of Idaho can spend their senior year in the Department of Forest Products. I hope that both of these student exchange programs with Idaho will be in operation starting next year.

Our student clubs have remained very active this year. The newly-formed student chapter of the Technical Association of Pulp and Paper Industry received their official charter during 1983. Also for the first time Minnesota pulp and paper students attended the national TAPPI meeting held in Atlanta, Georgia. Five pulp and paper students were able to fly to Atlanta for the meeting. The wood identification kit project remains one of the major fund raising activities of the Forest Products Club.

Several of our faculty received important honors this year, Dean Emeritus Frank Kaufert received the Distinguished Service Award from the Society of Wood Science and Technology at their annual meeting in Norfolk, Virginia. Dr. Kaufert's recognition, as you can well imagine, was for his many contributions to the field of wood science during his distinguished career and for his development of the forest products program at the University of Minnesota. Dr. Jim Bowyer received the Horace T. Morse-Amoco Award of the University of Minnesota, given annually to recognize faculty who have made outstanding contributions to undergraduate education. Dr. Bowyer is one of only four faculty members from the College of Forestry who have ever received this award.

The existing programs and activities in the department have not changed dramatically in the past year. For those of you who have been gone for only a few years, I don't believe you would find things a great deal different if you could stop and visit us now. Erickson's jokes are the same, Gertejensen's and I have put on a few pounds and the rest of the faculty is using Grecian Formula. I always enjoy meeting some of our marketing grads each year at the Hoo-Hoo golf tournament and other Hoo-Hoo affairs here in the Twin Cities. Also, we usually are able to gather 30 or 40 of you together each year when we hold the "Minnesota Hour" one evening of the FPRS annual meeting. I do find it becoming increasingly difficult to recall, when meeting alumni I haven't seen for several years, whether they graduated two years ago, five years ago, or fifteen years ago. Perhaps that is a sign of something.

Student numbers are remaining fairly constant or increasing slightly perhaps. We have about 85 undergraduate students in the fall of 1983 and 20 graduate students. With about half of our graduate students working on Ph.D's. Our alumni are infiltrating the ranks of the faculty at many other forest products programs around the country. I believe we have alumni on the faculty at nine other universities in the U.S. at the present time.

We always appreciate hearing from our alumni. Also,
The Department of Fisheries and Wildlife
- Opportunities in the Years Ahead -

by Ira Adelman, Associate Professor and Department Head

Although the Department of Fisheries and Wildlife has moved into the College of Forestry, its mission remains: 1) to provide quality programs at the undergraduate, M.S. and Ph.D. levels for students desiring to broaden their scientific knowledge of fisheries and wildlife or to enter one of the disciplines as a profession, 2) conduct innovative basic and applied research dedicated to resolving long-term as well as short term problems facing resource management, 3) to provide extension education programs for the public and service to appropriate agencies in natural resource and vertebrate management and other areas where the unique expertise of the faculty, staff and facilities can serve the state; and 4) to work with regional, national and international organizations and agencies interested in the development and application of research technology to resolve significant problems and issues.

There are currently six instructional programs: the pre-fisheries and wildlife curriculum, fisheries and wildlife undergraduate majors, and fisheries and wildlife graduate majors. A fisheries and wildlife major is available for undergraduates outside the department.

Research and teaching are considered inseparable. Current major research projects include:
1. Ecology of fish production in Minnesota streams
2. Relationship of growth rate to smoltification of chinook salmon
3. Differential mortality of lake trout from lamprey attack
4. Utilization of power plant waste heat for aquaculture
5. Walleye exploitation in Lake of the Woods
6. Genetic indentification of sea lampreys
7. Population dynamics of pink salmon
8. Ecosystem management to benefit forest wildlife
9. Grouse management
10. Vegetational interactions, sodium, energy and physiological variables of deer and moose
11. Bald eagle breeding biology and production
12. Trumpeter swan feeding ecology and growth energetics
13. Waterfowl incubation behavior and impact of selected disturbances
14. Impact of circle pivot irrigation on prairie wetlands

Extension specialists in fisheries/wildlife and in aquaculture are fully integrated in the department. The teaching and research faculty support the extension specialists by providing advice and data and specialists provide input to research faculty on possible research needs.

Opportunities for the Department of Fisheries and Wildlife and professionals in the disciplines in the coming years derive from changes in attitudes and practices associated with natural resource management and from general public support of environmental issues. Minnesota has a vast fishery and wildlife resource and it occupies a geographic area that contains terrestrial and aquatic habitats associated with some of the most important regional and national fishery and wildlife research needs.

Hodson Hall houses the departments of Fisheries and Wildlife, which have recently joined the College of Forestry.

This state is biogeographically unique, with boreal forest, transition zone and prairie. In the northern forests, impacts of new technologies such as massive biomass utilization and peat mining on fisheries and wildlife resources are important national issues which, because of present development can best be explored in Minnesota. The only viable timber wolf population in the continental United States is here and other species such as the threatened wolverine and woodland caribou might be reintroduced. Breeding populations of ducks, geese, swans and cranes in the middle portion of the Great Plains are unmatched in the continental U.S. Despite all of the research and management that has occurred over the years, duck productivity remains low. Northern lake habitats unequalled in scope and quantity pose numerous resource management problems and provide a vast array of research questions ranging from exploitation effects on northern fishes to impacts of acid precipitation. The rehabilitation and management of Lake Superior relative to the other Great Lakes is an important national concern. Impacts of conservation tillage agricultural practices are uncertain but suggest tremendous potential for wildlife enhancement. These possible benefits along with negative impacts of intensive row-crop farming may be studied most effectively in this region because of the severity of the problems imposed by climate. There is also potential for study of non-
point pollution, particularly in agricultural regions. The vast resources of lake systems, Minnesota River Valley National Wildlife Refuge, and numerous parks and open spaces provide opportunities for the largely untapped research area of urban fisheries and wildlife.

The application of computer technology to fish and wildlife resource management is an important aspect of the department’s activities which will continue to expand. Development of basic information on fish and wildlife biology/physiology and application to fish and wildlife ecology and management and aquaculture (fish farming) are likely to center on genetics, selective breeding, or reproductive physiology.

Although these exciting opportunities exist, recent University budget retrenchments restrict the extent to which the Department of Fisheries and Wildlife can grow and expand into these new areas. Increases in internal and external research support will be necessary. Employment opportunities in fisheries and wildlife have never been plentiful but recently the situation has worsened due to federal cutbacks. Many job opportunities may open in the not too distant future as an attempt is made to meet the desires of the general public concerning environmental matters. These positions may be more with state than federal agencies due to states being more responsive to public pressure on environmental issues. The Minnesota non-game wildlife tax check-off and the resultant increase in funds for this endeavor is an example.

Due to the increasing human impact on ecological systems, it will be even more important in the coming years to understand and promote sound fisheries and wildlife management. The Department of Fisheries and Wildlife will continue to remain in the forefront of teaching, research and extension activities which address these issues.

"Surely," says I, "not the James Watt, folk-hero and famous wilderness rapiest!" "That's me," says he. And I says, "Not the renowned despoiler of our precious national heritage!" "Right," says he. So I ate him.
Gene Allan Ahrendt, 1973 College of Forestry graduate and forester on the Tongue Ranger District of the Bighorn National Forest, was killed September 10, 1983 in the crash of a chartered plane near Dayton, Wyoming. He had been scouting for hot spots from a fire in the Smith Creek area near Dayton.

Gene was born December 14, 1951, reared, attended grade school and graduated from high school in 1969 at Luverne, Minnesota. He was active in Boy Scouts and participated in cross country, track and wrestling. Much of his forestry career was spent on the Medicine Bow National Forest. From 1972 through 1973, he worked in the regional office in Denver and on the Gunnison and White River national forests in Colorado. He became a temporary forestry technician at Medicine Bow until accepting a temporary forester position with the North Central Experiment Station in 1976. In 1978, he was assigned to the Tongue Ranger District as a GS-5 forester. An SAF member, Ahrendt was promoted to GS-11 forester in August 1983.

Gene was awarded the Regional Safety Award, USDA Certificate of Merit and a life membership in the American Forestry Association for his work in Forestry Conservation. He was a director of the Sheridan Employees Federal Credit Union and was a member of the Sheridan Lions Club. His interests were hunting, fishing, water skiing and coaching the Women’s Forest Service Softball team. He is survived by his parents, three brothers and one sister.
Fall Bonfire

by Sharon Raetz

I contemplated for awhile whether I should go to the bonfire or not, and then I decided that I really shouldn't pass up a free meal. So as tradition had it, on the first Friday of classes fall quarter I found myself at the bonfire. And for those, like myself, who came for the sole purpose of a free meal consisting of hot dogs, beans, and chips, were surprised with a wonderful demonstration of the skill of building a "one-match bonfire." Of course maybe I shouldn't mention the "scout water" that was so carefully sprinkled over the wood just prior to striking that one match. Oh, but that's right, scout water only enhances the illumination.

Once the fire was going and the Dean and Forestry Club officers finally finished their speeches of the coming year's attractions, everyone got to try his hand at buck sawing. Well, I couldn't leave yet, I had to try it. With a little coaching from the experts in the field I got it down and found that it really isn't that difficult after all. By the time I was finished it was getting late and others were enticing me, with beer, to stick around for some socializing. I didn't have any other plans so I thought, "Why not?" — so much for my idea of just showing up for a free meal.
1983 Tree Cut

by Tom Szabla

Anyone involved in the 1983 Christmas Tree Cut will tell you that this was the year of the world's worst weather. The procurement of the trees was handled by Diane Wirth and myself.

One rainy summer day, Diane and I drove up to Ella's Tree Farm and tagged about 300 rain-drenched trees. However, I think the number of deerflies I killed vastly exceeded the number of trees tagged. Hopefully this year's efforts will be responsible for a decline in the deerfly population on Ella's farm.

Before we knew it, it was time to cut the Christmas trees down. Of course Diane and I selected an absolutely miserable rainy weekend to have the tree-cut. The courageous (crazy?) people who participated in the cut met at Green Hall on a Saturday morning. Half of the crew headed to Ella's and the other half went to Carl's tree farm. Those traveling to Ella's found most of the flagged trees cut down but luckily they were still nearby and of course the club's tree-bailer was about as functional as Dave's truck, which stalled out on 3SE. However, both crews finally found their way to Carl's and finished up the hard day of work.

Ah food! Hotdogs, beans, chips, and beer were served and consumed in front of a roaring fire and drenched spirits soon began to improve as people dried out. Don and Carl's stories and jokes seem to improve over the years. Following the "literary" phase of the day, Carl hitched his shiny new tractor to his broken down wagon and everyone jumped on for a ride through the mud, which required us to cling to somebody for support. Every bump prompted boards to be ripped off the wagon and then at one bump Greg departed the wagon and came to rest after a short flight into the weeds. There wasn't much movement because we had a few too many field sandwiches.

We all survived the hayride, even Greg, and Carl was already planning to build a new wagon for next year's outing. I can acclaim to the fact that this year's tree cut was a great success.

I think you should buy this tree because I'm freezing.

Students Attend National SAF Meeting in Portland, Oregon

The Society of American Foresters held its 1983 National Convention last October in Portland, Oregon. Six University of Minnesota SAF student members made the 3,000+ mile trip to participate in and enjoy the convention activities. The six undergraduate and graduate students included: Margaret Moore, Susan Billings, Dan Billings, Dan Grundtner, Susan Zajac and Patrick Miles.

The van departed St. Paul on Thursday evening at 6:00 p.m. and arrived in Portland Saturday afternoon (after a brief unscheduled stop at an Oregon winery for a wine tasting session.) The group arrived back in St. Paul the following Saturday, having missed a week of classes but declaring that the convention was a particularly rewarding educational experience.

A highlight of the convention was an excellent student tour. Participants had the opportunity to view the Aerolift Inc. cyclo-crane (lighter-than-air craft used for aerial logging), visit a cable logging show in the Coast Range, and had a chance to explore the nearby Pacific Ocean beaches. Several students also participated in the silvicultural tour to the Mt. Hood National Forest and a tour of the Mt. St. Helen's volcano.

Van costs and registration fees were funded by the Forest Resource Department using Dayton Kirkham funds that are provided to enhance undergraduate education at the College of Forestry.
The journey to Champaign was long and treacherous, but the group was in good spirits, and many friends were made and songs were sung by the time the competition began on Saturday morning.

The battle began following a lumberjack breakfast of flapjacks and coffee, under a cloudy sky. The first events put our groggy minds to work. Dendrology provided the challenge of southern species, many of which our northern foresters had never seen before — but nobody tried an osage orange for breakfast! The traverse course had its challenges; getting out alive being the most prevalent. The bushes and vines were covered with clawlike thorns, while the vultures waited for someone to become forever lost in the cornfield.

Matchsplitting seemed no problem for Tim Kennedy that morning; while most people were having severe coordination problems, ol’ dead-eye halved his first match for a first place, -2 points. We also scored on the chain throw and the one man bucksaw events, despite malfunctioning equipment. Unfortunately, it was too early for our gallant tobacco spitters, who only got applause, a redman headache, and a piece of soiled graph paper for their efforts.

After choking down a barbecue lunch, we resumed our fierce quest to rise from the depths of fifth place to our rightful place at the top.

This was not to be, however, even after a fantastic effort by our teams that afternoon. Our muscle bound pulp toss team "logged" in at third place, and Joe Zuzek, who couldn’t stop throwing things, took second place in the bolt throw. Meanwhile our tin men scored in the speed chop by carefully hacking through the log and thankfully not their legs. Other acrobatic feet were rolling logs through tricky courses, with no broken records this year, but also, no broken peavies.

The bucksawing was the final big push of the day, and Minnesota came on strong, placing three women’s teams and one men’s team. Even without the famed M-tooth saw, the cookies fell away like slices of butter.

The final event put us in second place, but it seemed our mighty foresters carried the tree instead of dragging it; this being a minor rule infraction, we were disqualified and left in third place. This did, however, enable our hosts to score their only point of the day.

To end the day, Minnesota passed around the Old Forester, danced some dances, took the hockey stick, and prepared for the long journey home.
Do these people look like engineers?

I think a skidder would be easier.

Modern Technology.
Forestry Day 1984
by Betsy Lowe

Forestry Day began on Friday, January 20 with a burst of cold weather, -20°F. But this didn't stop the competitors in the Lumber Jack and Lumber Jill contest from dragging a Christmas tree, outside.

For eating crackers and whistling, and for answering forestry trivia, the awards for this year's Lumber Jack and Jill contest went to Tom Szabla and Cindy Hopper.

Friday night (for those whose cars started) was the F-Day Banquet and Awards Ceremony at the Fox and Hounds Restaurant - Don Mueller and Cindy Miller were Masters of Ceremony. Special guest was 1968 College of Forestry graduate Duane Hansen. Duane presented an "entertaining" slide show on the Chippewa National Forest. Following the slide show, awards were presented. The award of Forester of the Year was presented to Jeff Edmonds of Lake City, Minnesota. This year, the Uncle of Paul Award went to J.V. Bell and the Son or Daughter of Paul Award went to Tom Szabla who wasn't sure which one he got - Son or Daughter? Also presented at the banquet were the six F-Club scholarships. The recipients of these $250 checks were: Lisa Allison, Frank DeLaRosa, Kevin Heikila, Carrie Lahr, Cindy Miller and Chris Nelson.

Saturday morning in the North Star Ballroom faculty members warmed up the griddles for the traditional pancake breakfast (just as did the weather outside, to 15°F). Usually this is the time that faculty, grad students and undergrad students present skits, but all that entertained us were "six little ducks."

When things were cleaned up people headed to the softball field in front of Green Hall. Here Lumber Jack and Jill cut the first cookie from the cant, establishing the beginning of the 1984 Forester's Competition. Skills were tested in buck sawing, splitting matches, tossing kegs, running in snowshoes, and for those who wanted to challenge "Rotten Ralph," tobacco spitting.

Kevin demonstrates the infamous snow shoe face stop.

Awards this year went to:

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<th>Contest</th>
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<th>Place</th>
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<td>1st</td>
<td>52.38</td>
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This little forester is having a difficult time trying to determine what is actually transpiring.
Delivering F-club Christmas trees.

With those legs one doesn’t wonder why they’re wearing masks.

Now why would anyone want to toss a keg?

This year following the field events the Bean Feed was held at Commonwealth Co-op. This year a dessert contest was held and Frank De LaRosa’s specialty strawberry cheesecake won. “Pig Out!”

After the Bean Feed, people headed out to the Bel-Rae Ballroom for a little polkaing, waltzing and a little “tweety bird” dancing. With sore feet this concluded F-Day for 1984.

Special thanks to those Forestry students whose help and efforts made this F-Day possible:

  Cindy Miller — Banquet
  Maryanna Johnson and Kevin Heikkila — Forester of the Year
  Dave Haugen — Uncle, Son or Daughter of Paul
  Margie Gromek — Breakfast
  Cindy Hopper, Mike Scharrer and Tom Szabla — Events
  Mike Scharrer, Tom Szabla and Ann Francis — Prizes
  Margie Gromek and Tom Szabla — Bean Feed
  Paula Lamke — Stumpjumper’s Ball
  Tom Szabla and Jim Gustafson — Publicity
  Cindy Miller — Tickets
  Maryanna Johnson — Buttons
  Tom Szabla — Overall Chairman

We of the Forestry Club would like to thank all those who contributed to the success of this year’s Forester’s Day, especially those who donated prizes: Midwest Mountaineering, Burger Brothers, Carl Vogt, The Outdoor Store, EMS Pine, and Twin City Saw

Son or daughter?
1984 Fisheries and Wildlife Student Conclave

by Diane Picken

This year’s Fisheries and Wildlife Student Conclave will be held at Iowa State University in Ames, Iowa the weekend of March 30 through April 1.

Conclave is the time when fisheries and wildlife majors from colleges all over the United States join together for a weekend of seminars, field trips and various competitions.

There are several events which are held at every conclave. The most well known is the Quiz Bowl, where teams of four students from each college answer, or try to answer, questions compiled by the hosting college. Last year’s team of John Burch, Gretchen Mehmel, Vanessa Dickenson and Mark Cook took second place in this event.

There is also a wildlife art competition, in the areas of oil, watercolor, pencil, three-dimensional art and photography. The University of Minnesota fared very well in this contest last year; among the winners were Jered Nyquist and Chris Loggers — two very talented artists. The collection of fine art present at this competition is always impressive to see.

Besides seminars and contests, there is also time for relaxation. Saturday evening everyone gets spiffed up for a wild game banquet, which is followed by an awards ceremony. The banquet is followed by a dance. Last year’s new addition, the animal imitation contest, was held during intermission at the dance. This was possibly the most entertaining event at Conclave. Last year’s winning imitation was of two male bighorn sheep (wearing football helmets) fighting over a female. Minnesota received second place with Scott Posner’s imitation of an American Bittern.

Conclave is one event wildlifers are encouraged not to miss. It’s a great chance to meet new people in our field, as well as get to better know members of our own club.
Faculty and Staff

Dean Emeritus Frank Kaufert

Dean Richard Skok

Director of Student Services John Bell

Cheryl Mills, Pat Van Cleave, Clara Schreiber, Cathy Phillips, Anne Spragins, Janelle Schnadt and Kathy Phelan from Forest Resources.

Vicki Mackerman, Nannette Wilkinson and Sandy Gibbs from the Office of Student Services.
Emily Sundeen

Linda Tucker

Carol Laffoon

Phyllis Colombo

Roslyn Zippa, Norma Essex and Joe Schroeder from Fisheries and Wildlife.

The Librarians are not pictured.
**John G. Haygreen**
Dr. Haygreen, Head of the Department of Forest Products, is responsible for teaching in the area of mechanical properties of wood-base building materials and structural design of wood frame building. Research: work with graduate students primarily involving processing of wood/bark residue fuels for energy production. A large project presently underway involves compression drying of wood chip fuels.

**Roland Gertjejansen**
Teachings: Pulp and Paper Technology, Wood-Base Panel Products Technology, Pulp and Paper Process Laboratory. Research: Concerned primarily with improving the properties of structural panel products particularly Orientated Strand Board and waferboard, utilizing residues and little used species as raw materials for these products.

**Jim Bowyer**

**Harlan Petersen**
Extension programs focused on forest products utilization and marketing, consumer education and industrial/commercial use of wood for energy. Responsible for the undergraduate program in forest products marketing including teaching wood frame building systems and materials, forest products marketing and conducting the annual wood industry course.

**Elmer L. Schmidt**
Dr. Schmidt is a new faculty member in the Forest Products Department responsible for teaching and research in wood deterioration and forest products microbiology. Current projects include studies on fungal spore germination, bioassay methods for evaluating wood preservatives, protection systems for aspen waferboard, and new remedial treatments for wood used above ground. 

A native of Texas, he studied at the University of Chicago before coming to the U of Minnesota where he completed his B.S. in Forest Science in 1969. After military service, he continued his education here receiving a M.S. in Plant Pathology and Microbiology in 1973, and PhD in Plant Pathology and Forest Products in 1978.

**Robert Erickson**
Teaches Wood Drying and Preservation Processes and Wood based Materials in Housing Construction. Research includes energy conservation in lumber drying, improved processes for lumber manufacture, analysis of drying stresses in lumber, problems in structural members of houses due to moisture movement and the study of perpendicular-to-grain creep in first dried wood. Belong to the Past Presidents Council of the Society of Wood Science and Technology and serves as editor of the society's newsletter. Converted appointment in the College of Forestry from 12 to 9 months in 1983.

**Henry Hall**
Ronald Neuman


Forest Resources

Simo Sarkanen

Frank Irving

Teaches: Administrative Processes, Forest Fire Management and Techniques of Prescribed Burning. Research: Control and use of fire in land management. Also involved with Minnesota DNR-Scientific and Natural Area Advisory Committee, Prescribed Burn Policy and Guidelines Committee, Minnesota Chapter of the Nature Conservancy - Board of Trustees.

Edward Sucoff

Research as tree physiologist is in the areas of stress physiology and physiology of regeneration. Teaching: Field Forest Ecology, Tree Physiology, Advanced Tree Physiology, and Research Methods.

Carl Mohn

Dietmar Rose

Dr. Dietmar Rose is a forest economist with interest in quantitative aspects of forestry decision making. He teaches FR 5223, "Timber Management Planning," FR 5264, "Quantitative Techniques in Forest Management" and is involved in the Cloquet field course FR 5220, "Remote Sensing, Forest Resources Inventory." Recent research interests focused on improved planning models for private and public forests and enterprises and regional models of timber supply. Future research will expand into international aspects of forestry such as global database and networking activities in forestry research and development in developing countries.
Phil Splett
Career Opportunities Coordinator and Instructor. Provide information and help to students and alumni seeking forestry employment. Teaches Conservation of Natural Resources at Itasca. Currently S.A.F. faculty advisor for students. Secretary/Treasurer of the Forestry Alumni Society.

Jim Perry

Vilis Kurmis
Current research deals with productivity, reproduction, and succession in black and white—cedar communities of Northern Minnesota, and vegetation changes in upland forests of Itasca State Park. Teaches Field Ecology at Itasca Park, Forest Ecology in Green Hall.

Harold Scholten
Research: tree and shrub species, of known sources, being tested for use in farmstead shelterbelts, field windbreaks, and under center pivot irrigation systems. Working on designs of shelterbelts to reduce snow damage on young trees and design of windbreaks to get more uniform snow distribution over cropland.

Bill Johnson
Bill Johnson is a research fellow and teaches Remote Sensing

Carl Vogt

Melvin Baughman
Extension Forester and Program Leader for Renewable Resources. Chaired a multi-agency task force that studied continuing education needs of Minnesota foresters. Published research on financing, timber sales and land ownership policies of Minnesota counties. Conducted workshop for woodland owners. Forestry Club advisor.
Larry Merriam
Teaching responsibilities include courses in recreation planning at Cloquet, recreation policy, and management of recreational lands with inputs for the interdisciplinary resource and community development seminar. As coordinator of the Recreation Resource Management program, has been working on new curriculum options in recreation management, law enforcement, and federal forestry. For the urban forestry program, efforts are directed toward program funding and employment opportunities for students. Research includes a study of minor state parks in Minnesota recreation system and evaluation of graduate research.

Marvin Bauer

Dave Grigal
Teaches: Beginning Forest Soils, Advanced Forest Soils, and Topics in Silviculture and Soils. Major area of research is the quantitative identification of those soil factors that affect tree productivity. Also has research projects including production and decomposition in bogs in northern Minnesota, the role of above- and below-ground plant parts in determining the path of old-field succession, intensive culture of woody plants on peatlands, and improvement of soil surveys for forest management.

Alan Ek
Teaching: Field Forest Measurements, Natural Resources Inventory, Forest Biometry, and Forest Resource Survey Design. Research interests: measurements, sampling and estimation methodology for forest resource inventory; forest growth and yield projection; modeling for silvicultural decision-making.

Tim Knopp
Teaching courses in recreation land design and planning, analysis of recreation behavior, and an interdisciplinary seminar in resource and community development. Research interests are focused on policy and decision making in the allocation of recreation resources, outdoor ethics, and tourism. Has a strong interest in the promotion and development of trails for hiking, cross-country skiing, and bicycling.

Merle Meyer
Currently teaching courses in aerial photo interpretation, range management and two special classes in 35mm aerial photography. Research continues to be primarily in 35mm aerial photography applications to forest management— in cooperation with such users as the DNR, Beltrami and Cass County Land Departments, Blandin and Boise Cascade. Scheduled to go to People’s Republic of China June-July for United Nations to give training in 35mm aerial photography. After three prior defeats, finally beat his wife in the Birkebeiner X-country ski race (55km) at Telemark.

Robert Dixon
Teaches Urban Forest Management, and Application of Silviculture in North American Forest Types. Research includes mycorrhizal relationships, tree seedling physiology, and hardwood silviculture. Also visited Thailand as a member of Agency for International Development resource management team.
Ira Adelman
Professor and Department Head for the Fisheries and Wildlife Department. Research includes water quality factors in relation to aquatic life, and development of techniques for water quality studies. Teaches Fishery Ecology of Polluted waters.

George Spangler
Dr. Spangler is the director of graduate studies for fisheries. His research includes fishery population analysis and modeling predator-prey interactions.

James Cooper

Gordon Gullion
Has been involved with forest wildlife management with emphasis on grouse populations dynamics.

Yosef Cohen
Dr. Cohen received his doctorate degree at the University of California-Berkeley in 1982. He is involved in ecosystem modeling and composition in aquatic ecosystems.

Peter Jordan

Daniel Frenzel

Thomas Waters
Professor currently on sabbatical.
SENIORS
The Forest Products Club (FPC) and Forest Products Research Society (FPRS) has had a very good year, from an economic as well as academic and social point of view. Through record sales of wood identification kits, we were able to provide new social and educational activities such as FPRS memberships for active members and the design and purchase of club jackets and hats. Fall membership rose and now includes several graduate students. The annual Fall Department Student-Faculty information session had an exceptional turnout, providing information regarding curriculum changes, scholarships, job markets and job placement. It ended with a most interesting history of the Forest Products Department by Dean Emeritus Frank Kaufert. The meeting was considered to be a huge success, since it gave students and faculty a chance to meet and talk on an informal basis.

Winter quarter offered the opportunity to participate in the Northwestern Lumberman's Convention. The FPC had a booth at this convention which gave students an opportunity to talk with persons in the industry including some former graduates. Also during winter quarter, new officers were elected and the wood ID kits were redesigned, hopefully making them more marketable. The club also produced a smaller kit to accommodate the Future Farmers of America (FFA) who visit our campus each year.

Thanks to the members and officers of FPC-FPRS for your interest and hard work throughout the year. Through continued sales of wood ID kits we look forward to continuing the service and opportunities we offer to forest products students.
Copious amounts of coffee and rolls greeted bleary eyed Board members who trudged through the snow and braved the cold to participate in almost monthly 7:00 a.m. meetings at the St. Paul Campus Student Center. The Board's purpose is to establish and maintain communication among the faculty, students and administration of the College of Forestry. The Board's major responsibility is to consider student problems of general college significance.

This year's projects included: 1) Social reception for the students, staff and faculty of the Department of Fisheries and Wildlife welcoming them to the College of Forestry; 2) Promoted student response to a possible name change of the college; 3) Sought student reaction to possible revision of the Forest Science curriculum; 4) Revised the constitution to include full participatory rights for the Department of Fisheries and Wildlife and moved the election of officers from March to May; 5) Assisted in the coordination of the annual tree planting ceremony which is held the Friday before Spring Quarter Commencement; 6) Discussed and firm ed up the Honor Case procedures and appointed 1983-84 Committee and 7) Sponsored a full day College Student Activities Day to better acquaint current College of Forestry students with the various opportunities available for student participation at the College and University level.

The student representatives were encouraged to keep in contact with their respective class members and bring suggestions and concerns before the Board for discussion and possible action. We hope this year's Student-Faculty Board contributed to the well-being of all students, faculty and staff in the College.
Technical Association for the Pulp and Paper Industry
TAPPI

by Todd Elmquist

Todd Elmquist  President
Jeff Verdoorn  Vice-President
Julie Pawlikowski  Treasurer
Kevin Ward  Secretary
David Falk  Events Chairperson

TAPPI, the Technical Association of the Pulp and Paper Industry, is a professional organization for the advancement of knowledge within the pulp and paper industry. Students are encouraged to join because it provides a means of meeting other students and members of industry. This is our second year as a TAPPI student chapter and interest has increased as students realize the benefits of TAPPI. As a student member, one receives notices to all TAPPI meetings, discounts on TAPPI publications, and the TAPPI Journal every month.

Highlights of our first year include a tour of Certainteed Corporation’s local shingle producing plant, a trip to the National TAPPI Convention in Atlanta, Georgia, and a trip to Sartell Minnesota for a tour of the new St. Regis mill and our Minnesota section meeting.

This year’s activities include several mill tours, a trip to the National TAPPI Meeting in Washington, D.C., and attendance at our local section meetings.

We would like to thank Dr. Roland Gertjejansen, our faculty advisor, and the Minnesota Section of TAPPI for their support.

Wildlife Club
by Reayney Bayliss

The University of Minnesota Student Chapter of the Wildlife Society, or Wildlife Club, is an active student organization on the St. Paul Campus.

1984 Officers:
President  Bill Meyer
Vice President  Sue Bolander
Secretary  Andrea Eliason
Treasurer  Diane Johnson
Student Representative  John Crawford

The club sponsors several fund raisers each year such as the raffle and poster sale, in order to raise money to attend the annual Wildlife Conclave with Student Chapters of the Wildlife Society from other states. The club has been doing some volunteer work much of which has been through the Hennepin County Park System.

The club has many subcommittees which emphasize certain areas of fisheries and wildlife. The Environmental Education Outreach Program (EEOP) presents programs for schools and organizations on different environmental topics and animal behaviors. The club holds meetings on the first and third Tuesdays of the month in the Refuge in Hodson Hall. The first meeting of the month features a guest speaker. The club is open to all University students who have an interest in wildlife and fisheries and we especially encourage students with wildlife, fisheries or forestry majors because they can learn of job opportunities in the field.
1983-84 Forestry Club

by Tom Szabla

Tom Szabla President
Jim Gustafson Vice-President
Kevin Heikkila Secretary
Cindy Miller Treasurer
Evelyn Jackson Historian
Carrie Lahr Sergeant at Arms
Dr. Mel Baughman Advisor

As usual this has been a very busy year for the Forestry Club, at least from my perspective as President. The F-Club has organized and participated in many events throughout the year, such as the Christmas tree cut and sales, Conclave, and Forester’s Day, which take many hours of preparation. Before these activities even begin there are many phone calls to make, letters to write, equipment to repair, rent or borrow, licenses to obtain, equipment to set up and many more preparations. Arranging the activities is not very difficult, but finding the time to make that phone call, or run to the hardware store often presents problems. Without the few people who are the heart of the Forestry Club, activities such as Christmas tree sales or Forester’s Day would not be possible.

Once the activities are organized, it’s always more enjoyable when many students and faculty members are there to participate. An example of this occurred at the 48th Annual Forester’s Day. At the bean feed a member of the Fish and Wildlife Club approached me and said, “I really enjoyed myself today and like what the Forestry Club is doing.” This type of positive feedback always makes a person feel some self-satisfaction.

I would like to extend my appreciation to everyone who has helped organize Forestry Club activities. Often, all these people ever receive is a $250 Forestry Club scholarship, which is a small reward for two to three years of hard work. There is no way to estimate how many hours students spend organizing events, more than most people realize, but I assure you that it amounts to many.

One award, although it has no monetary value, which is awarded each year to the outstanding Forestry Club student, means much more than a scholarship. This year’s plaque will always remind me of my friends who thought that I was worthy of this award. Wherever I go in life I will always carry this plaque with much pride and satisfaction. There are many students who may never receive the Son or Daughter of Paul award who are qualified, but it is my hope that they will always remember the outstanding work they have performed. You may not have a plaque, but carry this pride in your heart.

Through my involvement with the Forestry Club I have gained many positive feelings toward myself and others, and I hope that the Forestry Club will continue to enrich and enlighten many students in the future.

Recreation Resource Management Club

by Lisa Allison, President and Tom Remus, Treasurer

The RRM Club is a small club within the College of Forestry which consists of students in the recreation resource management program. The purpose of this club is to get RRM students together to learn about park management, job opportunities, and to do volunteer work in park areas, but it is mainly a way to get together with other RRM students for activities.

This past year started with the annual fall picnic, held in Dr. Knopp’s backyard. Present RRM students, professors, and alumni gathered to meet new people, talk about work, how the program has changed and to eat lots of beans and weiners. In November, believe it or not, 5 of us went canoeing on the Minnesota River at Fort Snelling State Park. It was a beautiful day for canoeing and also hiking. Fall quarter, our volleyball team tried hard to win, but we always lost (except for 1 game).

This spring the Club took a trip to Voyageurs National Park to do some volunteer work and sightseeing.
XI SIGMA PI

by Margaret Moore

1983-84 Officers:
Forester          Margaret Moore
Associate Forester Robert Bush
Ranger            Abraham Gafni
Sec/Fiscal Agent  Steve Long
Speaker's Bureau Chair Mike Scharrer
Faculty Advisor   Dr. James Perry

XI SIGMA PI is the National Forestry Honor Society.

The objectives of XI SIGMA PI are to secure and maintain a
high standard of scholarship which implies a combination of
scholastic achievement, leadership and community service.

During the course of the year the society participates in
several major activities. This year’s activities included the
College Open House Program, the Speaker’s Bureau and the
Society’s Annual Banquet.

The Open House Program was sponsored by the Student
Services Office and is a day set aside in early Fall for the “up
and coming” freshman who expressed an interest in the
Forestry, Fisheries and Wildlife programs at the U of M. This
day provides an opportunity for these students to visit the
College and exchange ideas with many of the faculty and
students. Some members for XI SIGMA PI volunteered to serve
as resource persons and guides for these prospective students,
answered questions, and generally made them feel at home
during their on campus experience.

The Speaker’s Bureau is comprised of members of the Delta
Chapter. The society receives a large number of requests from
local schools and other organizations, such as the Scouts, to
have a speaker discuss career goal and forestry related topics
and issues. We feel these presentations are a vital link between
the general public and professional forestry because a general
theme in support of sound forest management practices is
revealed. This year’s speaker’s bureau chairperson was Mike
Scharrer. The chairperson has a large responsibility in identifying
and obtaining speakers for these local groups.

The climax of the yearly activities for XI SIGMA PI is the
annual banquet. During the banquet new members are wel­
Come into the Society. This year’s banquet was held on
March 30, 1984 at Donatelles’ and our guest speaker was Mr.
Harold Zigmund. Mr. Zigmund is the chairman of Blandin
Paper Company, Grand Rapids, MN, and is also chair of the
Governor’s Commission for Wood Products. This year’s inductees included 10 undergraduate students, 3 graduate students
and 3 faculty members.

The society also nominates one of its undergraduate members
for a Lake States Regional Scholarship. The nominee’s name
and resume are sent to the designating chapter to compete with
other students within this region. This year’s nominee was
Robert Bush who is a senior in the Forest Science curriculum.

Although the Delta Chapter of XI SIGMA PI does not
function as a club, in terms of fundraisers and social activities,
we feel the society performs a vital role within the College of
Forestry. We trust that the College and the members benefit
from their involvement with XI SIGMA PI.

GUEST SPEAKER - Harold Zigmund - Chairman of
Blandin Paper Company

INITIATES (l to r): Frank De La Rosa, Linda Williams,
Susan Stafford, Carrie Lahr, Jack Erwin, Nancy
Duncan, Scott Pulscher, Susan Marion. Not Pic­
tured: Marc McDill, Jerry Krueger, Jeffrey Schultz,
Joseph Taylor, Christopher Thieman, Scott Engebak,
Scott Posner, Dr. Marvin Bauer, Dr. Thomas Waters.
CLUBS
Forest Products Seniors

Mark Abel
Brad Burns
Todd Elmquist
James Elshoff

David Falk
Theodore Johnson
Keith Lamprecht
Michael Mallin
NOT PICTURED

Howard Arch
Robert Badger
Jeff Bergman
Camilla Boeck
Michael Bokelman
Scott Burke
Todd Burnes
Chris Byrne
Blaise Darveaux
Douglas Day
Jim Dukes
M. Jo Fischer
Todd Fischer
Bill Gimler
James Gustafson
Richard Haagenson
Paul Heckman
Sally Hess Samuelson
Mark Hilliker
Gary Hoffman
Michael Jimenez
Linda Johnson
Mayanna Johnson
Rosemary Johnson
Denise Knuth
Jerome Krueger
Eric Kruger
Marna Kumpula
Robert Kumpula
Kevin Kvenvolden
Leon Lavigne
Peter Moody
Tim Morin
Mark McDill
Judy Page
Tom Painter
Lisa Palen
Helen Purvey
Doug Quiram
Kirk Roettgering
David Ryan
Michael Scharrer
Ben Skinner
Susan Stafford
Kathy Stegemoeller
Perry Tamte
Joe Taylor
Rolf Tufte
Richard Tyler
Jel Wagar
Kathleen Ward
Diane Wirth
Anne Bartz
Geno Campobasso
Jessica Carr
Lowell Douglas
Jeff Gerlinger
Michael Gustafson
Todd Hubbard
John Kitt
Tom Kositzer
Gerald Lipovitz
Mark Lindquist
Neil Lundquist
Eero Mattson
Peter Mayou
Donald Nienas
Michael Novacek
Robert O'Neil
Stephen Orth
Todd Porter
David Raasch
Kevin Rose
Paul Stangl
Mark Strohfus
Gary Teipel
Kevin Ward
Michael Ziemer
Joe Zuzek
Tim Donnay
Todd Harvey
Larry Leininger
Jered Nyquist
Doug Pierzina
Joel Walinski
Rollow Wallmow

Forest Resource Juniors
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Moore, Margaret M. PhD M.P. Meyer FR - ecology/photogrammetry
Morek, Victoria L. MS T.B. Knopp FR - recreation
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Nascimento, Jose R. PhD cand. J.L. Bowyer FR - forestry economics
Nicholls, David L. MS D.F. Grigal FR - for. economics
Noland, Michael PhD H.M. Gregersen FR - forest products mgmt.
Olmstead, Jimmy G. MS R.O. Gertjejansen FR - for. ecology
Pagano, Kenneth J. PhD cand. A.A. Alm FR - silviculture
Parala, Donald MS V. Kurnis FR - forest ecology
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Radsliff, Wendy A. PhD A.R. Ek FR - forest science
Reed, A. Scott PhD F.D. Irving FR - forest science
Rudensky, Ksenia M. MS J.A. Perry FR - silviculture
Schwietz, Paul L. MS R.W. Erickson FR - wood science
Seavey, Robert T. PhD F.D. Irving FR - for. ecology
Seck, Awa PhD C.A. Mohn FR - for. genetics
Stewart, William K. MS A.R. Ek FR - biometrics
Stone, Jeffrey N. PhD cand. R.K. Dixon FR - for. economics
Strees, Anne MS K.N. Brooks FR - plant physiology
Sword, Mary Anne PhD cand. R.D. Neuman FR - hydrology
Taaya, M'Hammad PhD R.D. Neuman FR - wood science
Tompkins, Thomas W. MS J.A. Perry FR - hydrology
Trojan, Mike D. PhD D.F. Grigal FR - for. soils
Wagner, Lloyd A. PhD V. Kurnis FR - ecology
Weber, Mark J. PhD cand. C.A. Mohn FR - urban forestry
Weicherding, Patrick J. MS M.P. Meyer FR - remote sensing
Weih, Robert C. MS A.R. Ek FR - biometrics
Zeisler, Thomas R.

Graduate Students
Undergraduates

- A Perception -

by Bob Seavey

One morning last November I was asked to write an article about the graduate student perception of undergraduates and about career opportunities for undergraduate students in the forest products industry. The student who asked me to write the article was in the Wood Drying class for which I was teaching assistant. I assumed that he either wanted to keep me busy writing articles for the Peavey so that I would not be able to think of any more assignments for the Wood Drying class, or he wanted to turn the tables on me - this time he would be correcting my grammar. The thought that he might have been motivated by purely altruistic reasons - trying to help the Peavey - did not occur to me at that early hour of the morning.

How do graduate students perceive undergraduates? Also, what do the long term career opportunities look like for undergraduate students in Forest Products? In answer to the first question, graduate students are generally sympathetic to the problems faced by undergraduates. It was not that long ago when we were undergraduates ourselves.

The position of the graduate student teaching assistant is uniquely situated. As students we see, often all too clearly, the frustration and anger of students who find their workload unrealistically demanding or their assignments and tests unrealistic; however, as instructors we recognize the need to provide a high quality of instruction. The process of education is not a passive process; the amount that we learn from a course is generally commensurate with the amount of effort that we put into that course.

In answer to the second question, a few years ago the career opportunities in the forest products industry were plentiful and very stable. The recession and changes in the federal housing policy have changed this situation. Housing starts are beginning to increase but forest product companies are cautious about hiring new employees. Who will they hire? What skills and abilities are they looking for?

It is often said that the career opportunities in computer programming and so-called “high tech” industries present the best possibilities in the future. Recently communication skills have been emphasized in our forest products classes. People from the forest products industry look for a strong background in the basic physical sciences when they are hiring employees. Professors from the School of Management emphasize the need for students to become good managers and good planners. Obviously a student cannot be exceptional in all these areas.

I think that it will be very important for students to be well acquainted with the potential for computer and other technological applications to the forest products industry. It is not as important for them to know exactly how these systems operate. Similarly, it is important to have a good background in the basic sciences, but unless you go into research, you will probably not have a lot of experience with problems that draw upon this background.

One area of education that is never mentioned as being important to the career training for forest products students is the electives in the arts and humanities. These courses offer no helpful skills in either management or technology, and many students understandably regard them as obstacles to be pushed aside as they push forward toward their degrees. I feel that these courses are extremely important to the education of any student who is receiving a bachelor’s degree. The four or so years at the University are the best and perhaps only time to pick up an appreciation for these areas of study.

It is most important for forest products students to learn to be good managers and to develop effective communication skills. Implicit in this statement is to know the approach to problems that are sure to come up. There may be no assurance of a secure and profitable career for all forest products students. However, the future is good for those students who are well-trained, willing to work hard, and able to find imaginative solutions to the problems that will face the forest products industry in the future.

Steve Quarles and Tim Larson evaluate defects in birch lumber.
The research projects in the Department of Forest Products cover a wide range of topics. Dr. John Haygreen, department chairman, said that it was the goal of the department to maintain a balance between problem-oriented practical research and fundamental research.

Dr. Jim Bowyer has directed research in a number of areas dealing with operations management and marketing of forest products companies. Dave Leding has worked with Dr. Bowyer on the subject of adapting Japanese management techniques to American forest products companies. The Japanese "just-in-time" inventory system may offer some cost savings for secondary manufacturers of forest products, such as furniture companies.

In another area of research directed by Dr. Bowyer, Dave Nichols has studied the marketing of glued-up panels. This study represents an excellent opportunity to improve the utilization potential of paper birch grown in northern Minnesota.

Another project involving birch has applied the saw-dry-rip process to this species. Dr. Robert Erickson has been project leader for this research. Tim Larson and Steve Quarles have worked with Dr. Erickson on this study, which has involved sawing, drying, grading and strength testing the birch lumber.

Steve Quarles and Dr. Erickson are also working on a research problem that will help to explain the ceiling-floor-partition-separation phenomenon which has been found in many houses built in the northern parts of America. This problem is due to trusses bowing up during winter months, thus causing the ceiling to separate from the interior non-load bearing partition walls. The problem may be traced to reaction wood in the tension cord of the truss.

In the area of panel products, Dr. Roland Gertjejansen has directed a number of studies using local species to make structural panels such as waferboard. Dr. Gertjejansen has examined the combined use of balsam poplar and paper birch as a furnish. Ken Pagano has been working with Dr. Gertjejansen and plans to study the bonding interface between aspen and birch flakes.

Dr. Haygreen, in addition to his duties as department chairman, has pursued a research program in the processing of low cost wood for energy use. Phil Steklenski has worked with Dr. Haygreen during the development of this research program. Part of this program will deal with the densification of mill residues into compressed pellets. These pellets are easy to handle and store prior to being burned in the furnace. The other portion of this research involves the press-drying of logging residues. Dr. Haygreen pointed out that by removing some water from the residue, the energy content is increased and the boiler capacity can be reduced.

Fundamental research in the department is being vigorously pursued by Dr. Simo Sarkanen and Dr. Ron Neuman. Dr. Sarkanen has concentrated his efforts in the area of lignin chemistry, working to isolate lignin compounds and to characterize their physical properties. Ted Garver has worked with Dr. Sarkanen for the past year on this research project.

Dr. Neuman has focused his research in the area of surface chemistry. Two projects under Dr. Neuman's guidance are directed to studying the rate of diffusion from a water-air interphase. Murrari Aggrawal has studied the faster rates of diffusion while Tom Thomkins is studying slower diffusion rates using laser light scattering techniques.
Employment Outlook for Pulp and Paper and Wood Science and Technology Students

by R. O. Gertjejansen

Like so many other industries, the pulp and paper industry suffered from the down economy which resulted in a significant reduction of both summer and permanent employment opportunities in 1983. This contrasted greatly with previous years when almost every senior was permanently employed shortly after graduation, and all juniors had summer jobs.

The outlook for 1984 is brighter. The corporate recruiters indicate that there will be an increase in both summer and permanent pulp and paper positions. The number of permanent positions will increase because some of the hiring freezes have been lifted, and some companies are staffing for new mill openings in 1985 and 1986.

Summer and permanent employment for Wood Science and Technology students is influenced greatly by the number of housing starts. If the wood products industry can see a healthy growth of the housing industry, there should be a significant increase in the number of technical positions in particleboard, waferboard, plywood and hardboard mills.

Forest Products Scholarship Banquet

The Forest Products Department's annual scholarship banquet was held in the Cherrywood Room of the St. Paul Campus Student Center the evening of October 5, 1983. This event began eleven years ago through the joint efforts of the Department of Forest Products and interested companies and organizations which provide the funding for the twenty-two scholarships. Fifteen of these coveted awards are designated for students in the Pulp and Paper Curriculum and another seven are awarded to students in Marketing, Production Management and/or Wood Science and Technology. The criteria for selection are academic achievement and professional promise.

Department Head of Forest Products, Dr. Haygreen, serving as master of ceremonies opened the formal portion of the program by welcoming all participants and introducing the Forest Products Department faculty members. Dr. James Bowyer presented current information about employment opportunities and Dean Richard Skok spoke about various nuances in the College.

Drs. Simo Sarkane, Robert Erickson and John Haygreen presented biographical information and career plans of each recipient as the scholarships were awarded. Participating company and organizational representatives also participated in the awards presentation.

W.T. Doar, representing WCCO with recipient Mike Mallin.
The students and their sponsors are as follows:

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<th>Company/Organization Sponsor</th>
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<td>WCCO-Midwest Radio Television Inc. representative W.T. Doar, Jr. with scholarship recipient Steve Orth.</td>
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Pulp and Paper scholarship recipients.

Dr. Hagreen presenting award for Dr. Stanley and Mertie Buckman to Mark Lindquist.

Anderson Corporation representative Dan Garofalo with scholarship recipients.
Memories are ever present of the twenty-five days we spent in our Minnesota state park. First coming to mind is the 95 degree heat in which we dug our first soil pit (6.4 miles north of Highway 200 on Clearwater County Road 2) trying to decide if it was sandy loam or loamy sand. Then of course, poison ivy, Nduka and the bees, Frank and the swamp, impossible Corylus cornuta one could not get through, downed trees to be straddled and last but not least, the closest one to the start getting a free drink at Northway, compliments of Phil.

Northway is another story. Endless pitchers of beer that 'Smiley' and his wife poured with nary a smile to relieve our frustrations from botany quizzes (caulophyllum thalietroides?), ecology exercises, and measurement writeups. Northway was also our only gateway to junk food. The hamburger buns were white and pasty, potato chips were greasy, and the pitchers of beer flowed like a river. One knew exactly what they would get, unlike the dining hall.

We will never forget the whole wheat "woolly yarrow" spaghetti and antipasto salad for dinner followed by potato pancakes with salsa for breakfast the very next morning, which started our stomachs churning and rumbling throughout the day.

In spite of Sharon's broken toes, Paula's broken thumbs, poison ivy, K.P., lights out and studying in cars, and oh yes, ecology and Bemidji, we all made it. Thanks to these experiences we established enduring friendships, became better people and earned the right to be called "Future Foresters of America."
A Personal Account of My Experiences at the Lake Itasca Biology Session

by Liz Moosbrugger

I spent the two summer sessions of 1982 and 1983 at Lake Itasca and found them well worth sharing. The following is a recapitulation of some of the more memorable events of those unequaled experiences in education.

I don’t remember how I found out about summer classes at Itasca but I do recall feeling very fortunate that I could take several of my required courses in an environment outside the classroom, in a kaleidoscope of settings in the forest of North Central Minnesota. Registration was simple and the price was right - a refreshing switch from the usual routine.

The first day was spent driving to Itasca, settling into a cabin, and meeting others at the station. One good way I met people was to play volleyball, which as I would soon learn, was a common after-supper pastime. Following five weeks of intense exposure to the wilderness, one comes to know his companions in a different way and that first game is a whisper of what to expect in the following weeks as some of our inhibitions give way to more outward revealing personality traits.

There was an opening meeting on the first evening of every session. A delightful introduction to the station and course of events for the ensuing five weeks was given by the Program Director, Dr. David F. Parmelee, who proved to be a fine director as well as a good friend. Most of the classes took on the same general format of an entire day devoted to one subject with lecture in the morning followed by collections, observations, etc. in the afternoon.

The first day of class gave me a taste of how intense the learning experience would be. I once heard that a student’s attention span could be effectively held for only 20 minutes. Well, that myth was soon dispelled from my mind, as my interest hung on for hours during the morning lecture and while in the field. The combination of being taught concepts and theories about wildlife and then venturing out and seeing these ideas in living form was as close to learning natural science as I have ever experienced.

Yes, the learning was intense, but there was a healthy respite of social activities and relaxation to take off the pressure. Each session offered a field day consisting of canoe races, volleyball tournaments, soccer, and related activities. There also is a small tavern located just outside the park for those seeking a liquid change of pace which has an atmosphere typical of a small proprietorship getting by on a shoestring while providing a unique retreat for northern Minnesotans.

For the more aggressive to unwind after a long day of class, there was volleyball and horseshoes and, for the more placid miles of beautiful thick forest to walk. My favorite was a canoe ride while the sun set on another fruitless attempt to catch my supper.

There’s a lot about Itasca that I’ll never forget but won’t fit on these few lines. I can only hope that many more people will be able and willing to experience the rich and lasting effects of that microcosm of natural science.

There must be something besides sand down here.
Cloquet, The Final Frontier

For two years I'd been told that Cloquet was to be the pinnacle of my education. The point where all knowledge gained fell into its respective place and a new understanding of forestry shall dawn. Besides, I'll have the best time of my college career. The only item I was not told of was the small matter of one thousand dollars, in advance. After all, Nirvana is not cheap.

The following are my impressions of this much revered epoch of learning. Bear in mind these are personal thoughts and feelings which do not necessarily have any connection with reality. I have to admit to almost endless amusement and awe in Mr. October. Here is a man with seemingly infinite knowledge and sterling character. Just ask him. Scarface, a dog with a mobile home. I personally feel he has only three legs. One can understand the embarrassment of his owners. Bob's resort seemed to be the place for off campus students. I'm still amazed at the collection of cars that gather there each night, possibly Bob has other means of income other than resorting.

Among the things I've learned, not to drive trucks through decoys, not to plant red pine near football fields, J.D., Mister and 2.0 and go. I'm still amazed at how many times he quit chewing. He made it look easy, obviously a man of steel will and unaltering discipline. I imagine he is still putting these attributes to good use.

Though time and space are limited, I feel a need for several honorable mentions. Brad Jones, the man with an insatiable desire for fun and unmatched driving skills, and Gordy, the instructor's instructor — it was he who introduced me to an exam with twenty-five questions and sixty-three answers. And finally to the entertainment committee without which would have made passing courses itself unbearable.

Now that Cloquet is history, I'm left with those questionables, who really stole all of the toilet paper? Did Ballou ever attend class? And did something really die in the library's john? Was Cloquet really the center of knowledge and entertainment, the maker of many fine memories? For those of you who have attended, the answer lies within. For those who have not, what's a thousand dollars among friends!

Getting cultured at the local museum.

Another batch for the disposal.
Wood Industry Tours

by Keith Lamprech

While many of their classmates were heading for the exotic southern climes of Daytona, Ft. Lauderdale and Des Moines, twenty-two hardy souls were boarding a bus for that annual rite of Spring: the Wood Industry Tour. This year's tour included stops at fourteen manufacturing and processing plants throughout northern Minnesconsin. The tour covered the full range of industries, from Diamond Match to the spectacular new St. Regis Paper Mill in Sartell, Minnesota. These tours allowed the forest products students to observe the applications of what they have learned at the University and to gain some insight and perspective on the Real World of Industry.

The group also gained valuable firsthand experience at innumerable fast food joints and small town saloons. Toward week's end, the long miles, lack of sleep and overdoses of grease and carbs began to take their toll on the weary travellers. Fortunately, the long hours on the bus were made entertaining by Jake, our resident storyteller, ladies man, bus driver, and legend-in-his-own-time.

The bus returned to St. Paul on Friday evening after a hectic, educational and thoroughly enjoyable road trip. Everyone headed home for a two day R&R before the start of Spring quarter.

Company Toured Products

Woodcraft Industries Hardwood Dimension
St. Regis Paper Co. Pulp and Paper
Burlington Northern Tie Treating
Blandin Wood Products Waferboard
Rajala Timber Studmill
Diamond Match Hardwood veneer
Potlatch Corp. Dry process hardboard
Louisiana-Pacific Windows
Lionite Hardboard Factory built homes
Weather Shield Mfg. Pulp and Paper
Wausau Homes Particle board and Door plants
Weyerhaeuser Specialty products
August Lotz Co.

1984 Southern Forestry Tour

While some forestry students chose to relax under the Florida sun or hit the slopes of Colorado, 16 dedicated souls and their two fearless leaders (Phil Splett and Carl Vogt) spent their vacation touring various forestry operations in the Southern United States. This tour enabled these individuals to observe southern forestry practices in woodland areas as well as view industrial products of the forest being produced.

Everyone was anxious to leave the snow and cold in Minnesota and head down to a warmer climate. We left the Cities on Saturday, March 17 and arrived that evening in Stockton, Missouri. Sunday morning began with a tour of the Hammons Products Company, led by Jim Jones. This company annually processes most of the nation's eastern black walnuts. After a brief introduction to the company, we were led through the processing plant and then the Sho-Neff Plantation. After lunch, we traveled on to Crossett, Arkansas, which introduced us to the balmy weather of the south. Arriving in humid, 70° weather and being cramped from two days of traveling in the vans, some of us felt the need to go running. We were led by Annie nicknamed Duracell - The copper top battery - during this run, which did indeed revive our tired spirits. The Crossett Motel was home base for three days while we toured the nearby forestry operations.

Monday morning started out with a guided tour of the Crossett Experimental Forest. Here we were able to view different reproduction cutting methods such as the diameter limit and the seed tree method. This experimental station also aids small forest tract owners in management methods of their lands.

Tuesday consisted of an all day tour of the Manville Forest Products Corporation in Huttieg, Louisiana. A tour of the maxi-mill using computerized technology in their production of saw timber was the basis for the morning tour. In addition, a talk on their inventory system and genetics program was given. The afternoon was spent touring their woodlands division which included stops at a fire site-prepared area, a harvesting operation, and a fuel-chip harvesting area.
Tuesday night was the annual catfish dining experience at the Catfish Inn, which also included a taste of froglegs and crab rolls. While most of us watched the shows on HBO (ask Louie about them), Carl’s snoring heard through the walls showed he was a little too tired to enjoy them (or was that Phil complaining of too many jalapeno peppers?).

Wednesday’s tour of the Weyerhaeuser nursery and seed orchard in Magnolia, Arkansas was a treat for all, especially those interested in genetics. Methods of grafting, selective pollination, and the cold seed storage were some of the interesting procedures shown to us. That afternoon, half the group decided to play Kadima (paddle ball) on the beach while others went ahead to discover what life at Camp Clearfork, an old YCC camp in Quachita National Forest, had in store for us. We all discovered that it was a beautiful camp in which to live, and the memories of the bonfires, stories and dancing will be treasured by all for years.

International Paper in Gurdon, AK, was the second all-day tour. The morning was spent on a fascinating tour of the production of plywood. A tour of the sawmill was included in the morning’s activities. After a lunch furnished by IP, we were taken to an active harvesting operation and were able to observe the felling, skidding, and loading of timber on to logging trucks. All in all, it was a very exciting day.

The weather turned cool once again for our last day in the south, but our talk with Rex Mann, District Ranger of the Quachita National Forest, made up for the weather. He talked about the forestry management practices of this forest and answered the many questions that we had for him pertaining to these practices and on employment. In addition he took us on tour of the seed orchard and explained their method of cone and seed collection. Friday afternoon was spent at the horse races in Hot Springs, and then we began the long drive home. We arrived at Green Hall on Saturday, March 24, at 2:00 p.m., tired but happy.

One subject raised at almost every stop was the importance of the computer. In every aspect of forestry, from compiling field data to producing plywood and sawtimber, the computer has become an essential factor and its importance will continue to increase in this field. (In other words undergrads, get all the computer training you can!)

Many students agree that this tour is one of the most memorable experiences of their days in the College of Forestry. Accordingly, a special thank you is extended to all those involved in helping make this trip what it was, especially to Phil and Carl. (Michael Jackson, we also want thank you for Thriller; without it, this trip just wouldn’t have been the same, would it Paula?!)
The Peavy Staff from left to right: Jim Veiman, Henry VanOffelen, Kevin Sittauer, Betsy Lowe, Mike Mallin, Sharon Raetz, Beverly Eckhoff, Tom Hagedorn. Not pictured: Jeff Hines, Diane Picken, Jim Randall, Paula Lamke and Mark Tollander.

With special thanks to John Bell, John Yead and the Office of Student Services.

Beverly Eckhoff - Editor
As this year's Peavey business manager, I would like to take this space to thank all of the advertisers and sponsors. Without you this publication would have not been possible. I would also like to urge those who have helped out this year to support the Peavey in the future. The Peavey staff again says "Thanks" and we hope this will be a good year for you.

Michael Mallin
Peavey Business Manager

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