Greetings to students, alumni and friends of the School of Forestry and Wood Products!

I told you last year that our biggest problems were small student numbers and lack of space for laboratories and offices for research staff and graduate students. We’re making some progress on solving the first problem. At this time next year, I hope I’ll be able to report substantial progress on the space problem.

Jeanmarie Militello (class of ’87) joined us this year to help in recruiting efforts. She’s worked hard and well. We’re still not where we want to be, but we have improved. We currently have 75 undergraduates, 25 M.S. candidates and 17 PhD candidates. We expect about 30 new undergraduates next September.

We prepared an Interim Status Report this year for the Accreditation Committee of the Society of American Foresters. I thought you’d be interested in some of the specific objectives we listed:

1. Attract another recognized forest ecologist by 1990 to be an integral member of an interdisciplinary team specializing in ecosystem studies of the Lake Superior basin. (Note—we are currently interviewing candidates).

2. Increase the undergraduate student body to 170 forestry students and 30 wood and fiber utilization students by 1995.

3. Increase the number of graduate students so that the total is about 50 with equal numbers in the M.S. and PhD programs (by 1992).

4. Increase externally funded research to an average of $100,000 per full-time equivalent faculty member by 1991. (Note—our average last year was $92,000—the highest of all MTU units.)

5. Further enhance diversity of the student body by a) increasing the proportion of women undergraduates to 30% of the total and b) increasing the proportion of non-resident undergraduate students to 30%.

We’re doing well, and I look forward to next year as being even better. Write, visit, take pride in Tech forestry.

Sincerely,

Ed Frayer, Dean
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dedication</td>
<td>4</td>
</tr>
<tr>
<td>Faculty and Staff</td>
<td>7</td>
</tr>
<tr>
<td>Graduates &amp; Graduate Students</td>
<td>15</td>
</tr>
<tr>
<td>Features</td>
<td>25</td>
</tr>
<tr>
<td>Department News</td>
<td>34</td>
</tr>
<tr>
<td>Activities and Clubs</td>
<td>39</td>
</tr>
<tr>
<td>Advertising</td>
<td>57</td>
</tr>
<tr>
<td>Editor’s Page</td>
<td>64</td>
</tr>
</tbody>
</table>
The 1989 FORESTER SALUTES
Dr. Alex M. Diner

The Forestry and Wood Products faculty at Michigan Tech includes several distinguished teachers and scientists who have earned the respect and admiration of their peers on a national and, at times, even an international level. Senior Research Scientist Dr. Alex Diner, to whom the Forester staff proudly dedicates the 1989 yearbook, is a perfect example of just such a faculty member.

Recognized internationally as a leader in the fields of plant tissue culture and genetic engineering research, Alex has spearheaded research projects during his tenure at Michigan Tech which have drawn world-wide attention.

But his success at MTU has certainly not come easily nor has it developed overnight. It is the culmination of years of study and research which began conceptually when he was an undergraduate student at Moorhead State University in Moorhead Minnesota. After receiving his B.A. in biology at Moorhead State in 1962, he went on to attain a Master of Science degree in bacteriology from North Dakota State University in 1965, then earned his Ph.D. in botany from Auburn University in 1979.

Including Michigan Tech, Alex has taught and lectured at four universities and colleges during his career, his tenure at MTU beginning in August, 1983. But his primary love is research, as evidence by the fact that he has, during the past 26 years, authored or co-authored 36 papers for publication. Additionally, in testament to the quality and eminence of his research, his projects have been the recipient of seven grants totaling more than $340,000.

His professional achievements notwithstanding, Alex has a warm, personal side which includes a wry sense of humor and an intense and honest interest in the welfare of others, both of which have at times been experienced by many of the students in the School of Forestry and Wood Products.

Alex met his wife, Debra, at a graduate student's meeting at North Carolina State University in September, 1979. They were married April 1, 1981, and have a two-year-old son, Tristan Charles, who is currently enrolled, according to Debra, in "the Alex Diner School of Life."

Debra received a B.S. in biology from Appalachian State University of North Carolina in 1979. She is currently employed as a Trainer at Detroit & Northern Savings and Loan in Hancock. She and Alex enjoy fishing, hunting, gourmet cooking, camping and for diversity purposes we presume, ballroom dancing.

The diversity of Alex's interests is also reflected in his record of public service. Over the years, he has been a member of a special police force, a volunteer probation officer, a high school science career counselor, and, for the past five years, has been active in city politics in Hancock.

Those of us who have had the privilege of knowing and working with Alex here at Michigan Tech can tell others without reserve that we have been fortunate to have had such an opportunity.

Tom LaJeunesse

Below: Alex with his grandfather showing his first "big" catch.
Above: Alex showing off his crappie for which he won the Master Angler Award in '88.
Upper left: Alex and his son "T.C.," Christmas '88
Left: Alex's Birthday Belly Dancer while at NCSU
Lower left: Alex and Steve Shearon just "bumming around."
Below: For once, a serious picture of Alex...
Upper left: Randy and Ken hold up the walls.
Upper right: A-crusing we will go, a-cruising we will go.
Lower left: I didn't mean to, really!
Lower right: If two's company, and three's a crowd, what's this?
MARTIN F. JURGENSEN, Ph.D.
Professor
Soils

MARY L. JURGENSEN
Administrative Aide
School of Forestry and Wood Products

DOUGLAS C. JURMU
Research Associate
Institute of Wood Research

SHARLENE J. KANNIAINEN
Senior Secretary
Ford Forestry Center

DAVID F. KARNSKY, Ph.D.
Director
CIFNR/Forest Biotechnology

THOMAS L. KELLEY, Ph.D.
Assistant Professor
School of Technology

KENNETH J. KRAFT, Ph.D.
Associate Professor
Entomology

PETER E. LAKS, Ph.D.
Sr. Research Scientist
Institute of Wood Research

HAL O. LIECHTY
Research Scientist
Forestry
ANDREA E. LONGHINI
Executive Secretary
School of Forestry and Wood Products

MARY BETH MAURER
Word Processing Equip. Operator
School of Forestry and Wood Products

GARY W. LYON, Ph.D.
Assistant Professor
Forest Economics

PEGGY A. MCKAIG
Assistant Research Scientist
Institute of Wood Research

ANN L. MACLEAN, Ph.D.
Assistant Professor
Remote Sensing

JEANMARIE MILITELLO
Forest Training Specialist
School of Forestry and Wood Products

GLENN D. MROZ, Ph.D.
Associate Professor
Silviculture and Soils

ANNIE MARIE MILITELLO
Forest Training Specialist
School of Forestry and Wood Products

ROSWELL K. MILLER, Ph.D.
Associate Professor
Forest Science

ANNET B. PACES
Research Associate
Forestry
ROBERT D. PALARDY
Assistant Research Scientist
Institute of Wood Research

ROLF O. PETERSON, Ph.D.
Professor
Wildlife

JAMES B. PICKENS, Ph.D.
Assistant Professor
Forest Management

MARCIA S. PRUNER
Research Associate
Institute of Wood Research

LESLEY J. PUTMAN, Ph.D.
Assistant Research Scientist
Institute of Wood Research

DAVID D. REED, Ph.D.
Associate Professor
Forest Biometrics

DENNIS P. ROBINSON
Technical Representative
Michigan Department of Agriculture

ROBERT D. PALARDY

SHERRY SANDRETTA
Typist
School of Forestry and Wood Products

STEPHEN M. SHALEK, Ph.D.
Assistant Professor
Wood Science and Technology
NOT PICTURED:

RALPH G. DUFFEK
UP Extension Forester
Ford Forestry Center

BRIAN GRENLEY
Laboratory Associate
Institute of Wood Research

SUZANNE E. KNOTT
Sr. Clerk
Forestry

Upper left: "He's a lumberjack and he's OK . . ."
Lower left: The next Biometrics/336 assignment in the making.
Lower right: Steve "Biobullet" Shaler.
GRADUATES
AND
GRADUATE STUDENTS
Howard J. Lindberg  
B.S. Forestry

Mark A. Korkko  
B.S. Forestry

Joseph J. Rushlauf  
B.S. Wood and Fiber Utilization

Todd Wieringa  
B.S. Forestry

John P. Yeshe  
B.S. Forestry

NOT PICTURED:  
Greg Anderson  
B.S. Forestry

Left to Right, Top Row — Kevin B. Fox, M.S., Seasonal variability in available soil nutrients. Xiaoping Gue, Ph.D., Enzyme Kinetics on Lignification Middle Row — Robert G. Hatala, M.S. Reinforced reaction injection molding. Robert N. Hawk III, M.S., Polymer reinforcement of wood fiber-based composite materials. Steven R. Hoffer, Non-traditional transformations to aid in the identification of northern hardwood species in the Lake States.
Left to Right, Top Row — Lee Hank Hong, M.S. Huang Yinghua, Ph.D., Genetic transformation of Larch. Middle Row — Mary J. Humpreys, M.S. Growth and yield projection systems for young upland oak stands. Mohammed A. Kalkhan, Ph.D., Evaluation of Multiresolution Satellite Data Composites For Forest Cover Types and Modeling Aspen-Conifer Stand. Kari P. Kolppo, Ph.D., Sulfur distribution in cell wall during Kraft delignification of softwoods.
Left to Right, Top Row — Rebecca Puumala, M.S., Organosolv Pulping Dana Richter, Ph.D., Mycorrhizae of red pine seedlings, etc. Middle Row — Lisa M. Sarnecki, M.S. Role of overstory density in oak regeneration in red pine plantations. Jill Schultz-Stoker, The Impact of Municipal Organic Compost on Soil, Soil water and Groundwater Dong Ill Shin, Control of flowering in Larch.
Left to Right, Top Row — Mary J. Sunblade, M.S., Oak Wilt Linda E. Thomasma, M.S., Ecology of fisher and Martín in the U.P. Middle Row — Scott A. Thomasma, M.S., Remote Sensing Kuo-Sheng Tung, M.S. Organosolv/AQ Pulping Xuerong Wang, Interfaced Behavior of Wood Fiber Polyurethane Composite

Not Pictured — Paul Desanker, Molding of Northern Hardwood Reponse to Environmental Stresses Sven Girschner, Structure Flake Board From Red Maple Barbro Ingemarsson, Ph.D, The Effect of Ethylene Syntheses on Lignification Fei Li, Ozone Effects on Sugar Maple Seedling Growth and Development Richard Page, Pack Size in Wolves Xiaozhao Wang, Micropropagation of Norway Spruce Indrajith Wijayaratne, Yueru Zhang, Production of Triploid Aspen by Micropropagation Yueru Zhang, A Physiological Process Model of Young Red Pine Growth and Development
FEATURES

'89 FORESTER G 2S :)
As stated in the Department News section of this yearbook, The School of Forestry and Wood Products, along with the Institute of Wood Research, has received more approved research proposals, and more research grants, than any other department on campus. So in respect to its achievement, the yearbook staff felt it redeeming to elaborate on some of these projects the faculty is so enthralled in. (Sometimes we wonder whether they are here to research, or to teach, but that’s a different story.)

Bernie Sun is working on Wood Substrait-Based Composite Materials. In English, it's nothing more than wood based product with near perfect qualities, such as dimensional stability, high strengths, light weight, inexpensive, decay resistant, and so on.

Bruce Haataja is researching Molded Wood Products, such as freight pallets, containers, and molded wall sections. All this is made out of wood strands mixed with resin then pressed under heat.

Robert Palardy is working on High Moisture Content Pressing of Composite Boards. He is evaluating and altering conditions to adapt to higher moisture content in the mat.

Vincent Chiang is looking into Organic Solvents for Pulping Purposes. Vincent is also looking into imitation lignin bonding, to make imitation wood products.

Peter Laks is researching into using Condensed Wood Tannin for a Wood Preservative. Imagine using the by products of trees to preserve them. Pete is also looking into Minimizing Root Deterioration from Soil Fungus.

John Diebel is occupying his time by studying the Feasibility of a Veneer Mill in the Western U.P., along with setting up a Forest Products Business Center. Oh, and we can't forget his Cross-arms for Utility Poles.

Doug Stokke is working on Polyurethane Wood Composite Materials, along with several grad students and their projects.

Steve Shaler is spreading his talents around by co-researching with some of the other so named people in this article, such as with Stokke, Palardy, Chiang, and various grad students.

Marty Jurgensen, Glenn Mroz, Dave Reed, Peggy Gale, Hal Liechty, Peter Cattelino, are all still working on the Elf project.

Gary Lyon is working on Forest Business Programs for computers.

Rolf Peterson is still playing with Wolves on Isle Royal.
Upper left: Char caught in action.
Above: Andrew working earnestly
Lower left: The Pukemla Lab is always busy.
The Otter River Camp, located near Elo, has been a favorite getaway for forestry students for many years. Originally a fish hatchery run by the DNR, the cabin and 20 acres were donated to the Michigan Tech Forestry Department and designated for Forestry Alumni and Forestry Students' use.

The cabin has undergone many facelifts since it was originally built. A few of the more recent happenings include the wood burner in the main room replacing the old (smokey) oil burner in ’78, the building of the cable bridge across Otter River in ’77, and in ’73 and ’74, a new asphalt shingle roof was put on, replacing the old cedar shingle roof.

Unfortunately, it’s time for more surgery. The roof over the kitchen has numerous leaks, as well as a few new skylights in the other rooms (not intentional ones — no glass). Work has begun, thanks to Steve Hoffer and SAF, and half of the kitchen has been re-done, and more roofing material lies (awaiting eager forestry students) in the shed.

Those students interested in using the cabin can see Dennis Baril to get the key and make reservations. Though I’ve heard the Otter River fish don’t bite, there are still many things to do and see there. Let’s pitch in and treat our cabin as well as it’s treated us.

— Meral Jackson
Top Row, Left to Right — Rob Sexton, Jeff Kokuk, Andy Kulpa, Brett Gess, Tim Kurasik. Middle Row — Todd Opperman, Chris Lawler, Clark Trowbridge, Dan Tighe, Dan Fehringer. Bottom Row — Gene Stouffer, Jeff Cronce, Chris Baxter, John Punches, Chris Bliss, Theresa Reilly, Scott Throop, Jake Wilson, Jeff Conley, Steve Roeder, Steve Perry

Below: Fall Campers push-starting the Tech. Bus — another Terry Sharik Adventure . . .

Johann and the Fall Campers talk about Christmas trees.
FALL CAMP

Fall Camp at Alberta provided us with a unique experience to say the least. Luxurious lodging was provided in the form of local abandoned houses and a remodeled church. These were complete with all the comforts of home including lights and running water (sometimes) and an indoor outhouse.

Recreation could be found in the form of snowballs, Gene's stories, shooting skeet off the back porch, canoeing the lake (at night in a snow storm), and the ever popular sleeping on picnic tables in the middle of the lake.

Several campers got close to the local fauna. Baxter found out how big a bear really is and I fed one (several of my best arrows). Opus decimated the local red squirrel population and Rob shared a lot of the #2 magnum shotgun shells with the geese visiting our area.

In the line of education, Ros showed us how to pace and use a compass so that we would be able to find our way out of the swamps where Terry would later get us lost. Ann gave us air photos so that we would know where we were lost at and Johann explained the life cycles of various things that we shouldn't eat. Jim D. made the mistake of showing us where all those nice bird's eye maples were and we spent the rest of the quarter scheming methods of tree poaching and dreaming of all the beer one of those babies could buy at the local pub.

Ed and Denny kept us physically fit by encouraging us to slog through three foot deep snow to measure trees. Terry preferred the cross-country marathon (he called it a field trip) and in our spare time we push started the bus.

Fall camp was not all forestry related. Baxter experimented with the effect of Douglas Houghton Falls on a thermos cup and Opus examined the fine art of high speed land measurement using a Gunter's chain and logging truck.

The most important achievements at fall camp were that Dan Fehringer was initiated to the true call of the wild, the official Forester's call and sign were introduced, we all learned to howl like a coyote, we're not pyromaniacs this is a biological clearcut, and we discovered Swede's!

After much contemplation, we came to the conclusion that Fall Camp '89 was the most expensive hunting camp we had ever been to, but it was worth it! We'd like to thank everyone who made it possible because it's the best experience a forester can have.

One question remains, has Terry ever been struck by lightning while charging through the woods with his soil probing device?

— John Punches
THE TECH FORESTER WAS THERE WHEN . . .

1950 Class rank was determined by this test.
   Freshman — That is a tree.
   Sophomore — That is a maple tree.
   Junior — That is a sugar maple tree.
   Senior — Cut the dam thing down.

1952 Intramural Sports
   Basketball 1-15
   Hockey 2-7
   Bowling 5-3

1953 Forestry had just as many graduates as any other department on campus.

1955 We received the Ford Forestry Center in Alberta.

1959 Foresters took 2nd place in class A snow statues.

1961 The Forester yearbook went from 5" x 8", to the current 8.5" x 11".

1964 Michigan College of Mining and Technology, became Michigan Technological University.

1966 Plans for the current Forestry building were revealed.

1967 Students at summer camp tried to make a paper birch tree out of toilet paper and an oak.

1968 Dedication of the new Forestry building.

1971 Rifle Raffle netted 300 dollars.

1973 Quote, "A road without trees, is shadeless."

1974 IWR produced the first molded wood pallets.

1976 School of Forestry and Wood Products had 36 students in MTU athletics.

1980 The Governors from the states of Michigan, Wisconsin, and Minnesota, talked of the importance of forestry here at Tech.

1982 Foresters placed 1st in Winter Carnival broomball.
The 1988-89 year brought about some nice scholarships for some deserving students in the Forestry department. Senior John Yeshe, received the 1988-89 Timber Producer’s Association of Michigan, and Wisconsin, academic scholarship, as well as the William Rusna Memorial scholarship. Junior Clark Trowbridge, received the 1989 U.P. Chapter, Michigan Society of American Foresters scholarship, for both his work in SAF, and for his academics. And Senior Paul Doruska, won the fourteenth annual scholarship competition of the Northeastern Logger’s Association, in the four-year college category. Paul is the seventh Michigan Tech student to place in this competition since it was started in 1975. Congratulations to these guys for a job well done.

Over the past year, you may of notice a few names appearing on the murals in the main hallway, Georgia-Pacific, Champion International, Weyerhaeuser, Holli Forest Products — Dave Holli, class of ‘61, and Glen Weinberg, class of ‘41. All of these companies, and alumni, have donated toward the undergraduate scholarship fund for students in The School of Forestry and Wood Products. So an engraved plaque on their respective wall mural, will be placed, acknowledging the support for our students.

The 1988-89 year also brought about several published papers from faculty and Staff members in the Institute of Wood Research, and Wood Products. They are as follows: Dr. Peter E. Laks — IWR, Bruce A. Hartaja — IWR, Dr. Stephen M. Shaler — Wood Products, Dr. Douglas D. Stokke — Wood Products, Dr. Vincent Chiang — Wood Chemistry, and Andrew D. Williams — IWR. Wow, can I have your autograph?

Yes, it was a good year for Research Activity for the School of Forestry, Wood Products, and the Institute of Wood Research. To be more specific, sixty-three out of the sixty-nine proposed research projects were granted by either the State, Federal, Industry, or other financial resources. All for a total of $1,973,175. This is outstanding when considering that campus wide just a little over six million was granted for research, and we received over 30% of that. Not only did we receive over 30% of the research money, we also had more research proposals granted, and more money to work with than any other department on campus. Way to go!

The School of Forestry and Wood Products also acquired a couple of new vehicles this past year. A 1988 Dodge Ram Charger, a half-ton Dodge pickup, and a Chevy S-10. What’s next, a BMW?

This year brought about only one new face in the Staff, and she really isn’t so new. Jean Marie Militello, a graduate in Forestry here at Tech, has taken on the position of Forestry Training Specialist. She has traveled all around the U.S. working on recruiting new students for the School Of Forestry and Wood Products, and she also helps to host potential students that are up here visiting Michigan Tech.

In the department of faculty family expansion, several spouses had been hard at work. The four families expecting were Steve and Robin Shaler, Peter and Sue Catelino, Dave and Beth Reed, and Brian and Susan Grenley. Congratulations on their new arrivals.

The 1988-89 Yearbook staff celebrated the fortieth edition of this student publication. Well actually we just needed another reason to celebrate.

Thad T. Bishop
Above: W. W. Intermill awarding John Yeshe with Dean Frayer looking on.
Upper right: Clark Trowbridge receiving his scholarship check from Dean Frayer.
Right: Dean Frayer awarding Paul Doruska for his first place finish.
FRESHMEN

Left to Right — Avery Beyer, Jeff Morse, Tor Anderson, Kate Jarvi, Eric Witt, Kurt Buckler. Not Pictured — Don Bragg, Lisa Dahlbacka, Tracy Deering, Jason Egin, Dale Johnson, Chris Maino, Tom Monicken, James Neton, Sandra Thoney, Steve Wendler, and Bill Wise.

SOPHOMORES

Left to Right — Don Tighe, Chris Bliss, Chris Baxter, Brett Gess, Charlie Brecken. Not Pictured — Jeff Cronce, Mark Hautoja, Andrew Kulpa, Andrew Londo, Todd Upperman, Clark Trowbridge.
JUNIORS

Left to Right — Glen Toepfer, John Zenk, Gene Stauffer, Gerry McKitty, Jenny Russel, Joke Wilson, Brian Waters, Thad Bishop. Not Pictured — Jeff Conley, Joel Erickson, Dan Fehringer, John Forzman, Ed Fredrikson, Derk Heimerdinger, Dave Hobisel, Erik Kerzens, Tony Sovey, Theressa Bailey, Matt Rintamaki, Bob Sexton, Jeff Steinkeaus, Scott Throop.

SENIORS

ACTIVITIES
AND
CLUBS
The MTU Student Chapter of the Wildlife Society has had a successful year considering our low membership at the beginning of fall term. We were unable to sponsor any activities in the fall, due to the fact that nearly half of our active members were attending fall camp.

During the winter and spring terms, we increased our membership and became involved in helping raise funds for the purchase of land to increase the size of the Estivant Pines Nature Preserve near Copper Harbor. We also had a few very successful poster sales that helped the club raise money.

We sent eight of our members to the North Central Section of The Wildlife Society's Annual Fisheries and Wildlife Conclave held near Potosi, Missouri in April.

Tentative plans for the end of year include hosting a short presentation by former Tech forester, Shawn Hagen, on the Peregrine Falcon releases in Detroit, and also a trip to Whitefish Point Bird Observatory near Paradise, MI.

Ken Kraft — Advisor
Dan Fehringer — President
Clark Trowbridge — Vice-president
Stacey Carlson — Secretary
Brett Gess — Activities
John Punches — Activities
The Michigan Tech chapter of the Forest Products Research Society was chartered in 1977. Since that time the chapter has had a continuing increase in membership and activities. This year, the members participated in a wide variety of activities ranging from hosting guest speakers to the construction of a high quality hand crafted chopping block.

The year began with the election of new FPRS officers. The results being: David Hoheisel, President; Torr Anderson, Vice-president; Steve Wendler, Secretary/Treasurer. The society then began a year-long project to construct paperweights resembling a 3-dimensional magnified wood block. As the year progressed, club T-shirts and sweatshirts were ordered with the use of graduate student Bob Hawke’s T-shirt design. With the coming of spring the students of the wood machining class decided to partake in a class project for the construction of a high quality hand built chopping block under the supervision of Dr. Stephen Shaler and Project Supervisor John Forsman. The Construction of the block required detailed planning and time scheduling by students, and gave the students an enjoyable experience as well as hands on training in the art of wood craftsmanship. Profits from raffling off the wood block were given to the FPRS Treasury.

FPRS has always pursued opportunities to hold presentations by guest speakers in hopes of expanding students viewpoints in the field of wood products, and provide an opportunity for students to come into contact with the industry and its current trends and ideas. This fall a seminar on acoustical emissions in wood was given by Steve Quarles, Assistant Professor University of California-Berkley. During the winter term Weyerhaeuser representatives Hank Goldberg, Virginia Stevens, and Mel Latinen presented students with Weyerhaeuser’s views on the importance of continuous improvement and employment involvement in today’s industry. In the spring term, the society tapped into the great resources that our own university has to offer. This resulted in an excellent presentation by Bruce Haataja from IWR on composite wood technology, and a conglomerate presentation by various graduate students on their current research projects.

It has been a very active year for FPRS and we are looking forward to an even more active and exciting future.

— Dave Hoheisel
The designation of officers for the past year was complicated by the graduation of the original Chair. This produced a new Chair and a new Vice Chair. The officers for the entire year are as follows:

**Chair:** Howard Lindberg, Dan Clark (Spring term)

**Vice Chair:** Dan Clark, Dave Neph (Spring term)

**Secretary/Treasurer:** Angela Brandon

**Program Coordinator:** Steve Perry

The past year was very busy and rewarding for the members of the student chapter. The first task that awaited students as they returned from the summer vacation/break, was to take part in the annual woodcut. Many of us gave up our weekends and weekdays to make sure that the wood was cut and delivered. The highlight for many, was making late night deliveries with “old blue.” These excursions proved to be exciting, dangerous, and at times nauseating, but were necessary to complete the woodcut.

The chapter was able to send representatives to the National SAF Convention in Rochester, NY, the regional Conference in Duluth, MN, and an executive meeting in Mackinaw City, MI. The conventions and meetings provided the opportunity for representatives to meet new people in the forestry field, see different areas of the Nation, and take part in activities that will be remembered for a long time.

The chapter sent a good number of representatives to the conclave again this year. The participants found the trip and the activities to be rewarding and the times had will not be forgotten. The chapter’s role concerning conclave has changed this year since the 39th Annual Midwestern Foresters Conclave will be hosted here in the fall of 1990. Making arrangements, organizing, and contacting other schools are a few of the tasks that must be completed in the preparation. Fund raising is of major priority at this time, and many projects are being thought of and are being planned.

The participation in the winter carnival again was a time worth waiting all year, and it may be best for some that it only comes once a year. The many events that were taken part in were all enjoyable and fun was had by all who took part. The highlight of the carnival was the “all nighter” snow statue again this year. Unlike other years, the judges were impressed as much as we were. The statue took fourth place in the “all nighter” competition which made the effort all the more enjoyable.

The annual faculty, grad/student, and undergrad snowshoe softball game was held this winter despite frigid temperatures. Other than a lopsided win and a few complaints of cold hands and feet, all participants had a good time and agreed that the afternoon was time well spent.

A couple days were spent at the Otter River Camp cleaning, repairing the roof, and shoveling the snow from the roof. Although the change of pace was gratifying, more time should be spent at the camp at leisure, rather than work. Time is being planned for such leisurely activities this spring, and hopes are that activities will be planned in the future.

— Dan Clark
Above: Buddies through and through, Denny, and Howard.
Upper left: Would you go to a school with recruiters like these?
Left: Spike, Angie, Howard, and Steve at the SAF convention in Rochester, NY. (That don't look like a convention to me!)
Lower left: The big turnout for the fall SAF Woodcut...
The 1989 school year for Xi Sigma Pi was an up and down one, the high coming when Xi Sigma Pi sponsored four of its members to attend the SAF national convention in Rochester, New York. Unfortunately, we spent the rest of the year financing that trip.

The tradition of the Xi Sigma Pi sponsored symposium was discontinued this year, due to the lack of funds. This we greatly regret. Hopefully, it will be taken up again in years to follow.

We continued to supply coffee and rolls to faculty and students. Perhaps, next year more people (the engineers?) will decide to pay for them so the club does not have to operate at a loss.

The club was led by a most ineffectual leader, Jeffrey A. Andrews and was propped up, barely, by a supporting cast consisting of Lisa Anderson as Associate Forester, the dearly departed Howard Lindberg as Ranger, and last but not least, Colleen Spakowski as Fiscal Agent. Colleen, try as she might, could not seem to get her hands on the checkbook which she so badly wanted to balance. (There actually was no checkbook — it was lost last year.)

A new cast of characters was recently elected, and we have high hopes that they will be able to get the club back on track. The lovely Angela Brandon was overwhelmingly voted Forester. She will be assisted by the debonair Jake Wilson as Associate Forester, the rugged Steve Milford as Ranger and the fiscally-minded Paul Doruska as Fiscal Agent (he's very good with numbers). We wish these people nothing but the best. Good Luck!

— Jeff Andrews
— Lisa Anderson

Gary Lyon ....... Faculty Advisor
Jeffrey Andrews ... Forester
Lisa Anderson .... Associate Forester
Colleen Spakowski Fiscal Agent

Howard Lindberg . Ranger
FALL FORESTRY CONCLAVE

Our arrival at Welch Village, Minnesota, for the 37th Annual Midwestern Foresters Conclave was immortalized in those now famous words, “Is this the right place?”

When we found that indeed it was the right place, the majority of MTU conclave participants (those who were there and didn’t attend the Tech game in Duluth on the way down) proceeded to mingle and make a merry with such (less) prestigious schools as MSU, SIU, and Purdue, to name a few.

The next day’s events started off on an ominous note due to a strange epidemic characterized by general disassociation with consciousness and severe headaches. Luckily, the epidemic was not fatal, but more than one victim wished it was.

We made a vast improvement over the previous year’s performance, and even placed in some of the competitions. Events included Jack-and-Jack, Jill-and-Jill, and Jack-and-Jill log roll and buck, compass and pace, tobacco spit, speed chop, dendrology (ode to Black Bob), and the pulp toss, to name a few. Some of the members even came home with plaques and certificates. One of our members, however, lost the vertical full attire Friday night by a wide margin.

The male half of the conclave team serenaded a few ladies (mostly unsuccessfully — good try guys) at dinner, and all did the ‘Gator in a show of good will (MSU did, too). Some men even got to dance with some “real women” (only meaning non-Tech women, of course), despite what they remember. I’m sure we won’t forget the good time had by all.

— Gene Stauffer
— Meral Jackson

Front Row — Colleen Spakowski, Marlene Horvoka, Bandit, Eric Gdula, Meral Jackson, Dan Fehringer
Top Row — Todd Opperman, Dan Taph, Chris Bliss, Brett Gess, Chris Baxter, Clark Trowbridge, Tim Karesek, John Punches, Jeff Kokuk, Gene Stauffer, Karl Helquist, Mike Bogess, Joel Janisse Front and Center: Dave Nepa
Left: Eric Gdula cruising through the speed chop to take fourth place.
Lower left: Brett Gess showing everyone how a one man buck is really done.
I.M.

SMOKEY'S CREW

the LOSERS

the PATHOGENS
1989 Spring Forestry and

The student chapters of SAF, FPRS, Xi Sigma Pi, and the Wildlife club held the annual School of Forestry and Wood products Banquet this year at the Eagles club in Hancock on May 2, 1989. A whopping 80 people, students, faculty and families, attended to make it one of the best events ever.

Awards were given by the clubs to advisors and staff in appreciation of their time and efforts. Dr. David Reed (advisor) and Denny Barril each received clocks from SAF, presented by Dan Clark. Jeff Andrews of Xi Sigma Pi presented a paperweight to Dr. Gary Lyon (advisor) and the Distinguished Teaching award went to Dr. Doug Stokke. Thad Bishop, for FPRS, gave a cutting board (sorry it wasn’t a butcher’s block) and a bottle of champagne to Dr. Steve Shaler (advisor), and to Dr. Doug Stokke a bib (he tends to spill things in class) and champagne. Doug Stokke, as yearbook advisor, presented Meral Jackson and Thad Bishop with certificates of appreciation for their work on the yearbook, and gave MTU Forester staff T-shirts to all the staff; Medal, Thad, John Yeshe, Dan Clark, Jeff Morse, and John Punches. Meral then presented Doug with a copper paper weight in appreciation for his work on the yearbook, and to Dr. Alex Diner a framed certificate for this year’s yearbook dedication. Angie Brandon gave flowers from the student body to each of the department secretaries: Andrea Longhini, Mary Jurgensen, and Sherry Sandretto. Mary Beth Maurer received a large bouquet, since she was a birthday girl that day.

Dan Fehringer from the Wildlife club gave a report on this year’s activities, and a brief report on some of next year’s plans. Ann Maclean, much to her relief, handed off the Big Screw award to her successor, Dave Reed, who promptly gave it to his wife, Beth. Ros listed next year’s scholarship award winners:

Keweenaw Land Association Ltd. Scholarship ...................... Andrew Londo
Harry R. Cohodas Memorial Scholarship ......................... Theresa Reilly
William A. Todd Memorial Scholarship ......................... Lisa Anderson
U.P. Chapter, Michigan S.A.F. ................................................... Clark Trowbridge
Timber Producers Assn. of MI & WI ............................... Scott Throop
Frederick L. Heinrich Scholarship ........................................... Don Bragg
Edward C. Hendericksen Memorial Scholarship ................ Theresa Reilly
Gene & Margaret Hesterberg Scholarship ......................... Paul Doruska
Charles & Patricia Nelson Scholarship ................................. Dan Fehringer
Bob Adams Memorial Scholarship ....................................... Scott Throop
Deans Award for Outstanding Seniors 1988-89 ................. Howard Lindberg
                ................................................................. Joseph Rushlau
1st Place Northeastern Logger’s Assn. Contest ................ Paul Doruska

Dave Neph presented the gag awards to those students and professors that contributed more than their fair share this year. Ros received a new hardhat, since it took 2 years of his stories about his old one to finally get it through to the students that he needed a new one (those foresters sure are quick). John Yeshe was given a “Troll Survival Kit” for his future life below the bridge, Ed Fredrickson has a ball of string so he can always locate his coffee mug, and Jake Wilson now has a whole book full of “new” jokes for everyone to groan at. Glenn Mroz was given a taste of his own medicine when the students gave him a 2” thick (it was really a Sears catalogue, but was just as thick as the tests that he hands out), and Lisa Sarnecki earned two awards for the year; a bowling pin to attach to her car keys so she never misplaces them again, and stuffed pasta shells to make for Clark, like she’s been promising to do since fall term (he’s really been looking forward to that dinner). John Punches received the “Teddy Bear” certificate — not because he looks like one, but because he likes to feed them his best hunting arrows. Dan Fehringer received the “Jannn Bruhn Look-alike” certificate, and Steve Milford got a Tall Tales book so he has more tales to tell. Eric Gdula, Mike Erickson, and Kevin Fox all received crash helmets for their awesome driving capabilities, and our other awesome diver, Brett Gess, has a pair of beer goggles, but not because of his driving. Clark has a nice pair of suspenders to help keep his pants on. Jeff Andrews got the May issue of GQ magazine, which he probably already has, and Dan Clark is the current owner of a case of Huber (premium) beer.

The “Office Girls” poked a little fun at the graduating seniors by presenting their own gag gifts, given by Sherry and Mary Beth; to Frank Lenning (even though he’s not graduating) a pair of beach shorts to add to his winter wardrobe. Mark Korkko is the proud owner of an IB block complete with sandpaper, just in case he misses working in IWR, and Jeff Andrews has a Far Side poster. Eric Gdula was given a “Sweet and Innocent” button, and John Yeshe has more Troll Survival Kit stuff.

Hopefully everyone present had a good time. Unfortunately, all the yearbook pictures of the banquet magically disappeared, but future yearbooks are bound to find something sometime. Thanks to all who participated — hope to see everyone again next year.
Wood Products Banquet

Can you find the Missing Banquet Pictures?
The 1989 FORESTER Staff is:

Doug Stokke
Our Trusty Advisor

Meral Jackson
(Co) Editor

Thad Bishop
Co-Editor
Dan Clark
Photographer

John Yeshe
Photographer

Jeff Morse
Typist/Photographer
Back in the "Good Ole Days" ...
Above: Another Dendro exam!
Upper right: How many times have you seen that?
Right: School of Forestry and Wood Product's mascot.
Below: Jingle Bells Chris?
Above: Where is the snow?
Below: Which way to Tech? Or home for that matter.
Right: I thought Patogen practice was today?
Patrons

Stephen I. Albee
Gene R. Arntsen
Dennis & Bonnie Baril
William Botti
William A. Briggs
C. Y. Cundy
Brian Dykstra
David J. Epperly
Vernon A. Fitzpatrick
Guenther E. Frankenstein
Warren E. Frayer
Margaret R. Gale
Lloyd Godell
Craig L. Gooding
John B. Hakala
Martin F. Jurgensen
Mary F. Jurgensen
Paul J. Leach
Scott S. Marsh
Donald M. Mazany
Glenn D. Mroz
Raymond R. Norkoli
Rolf O. Peterson
James B. Pickens
Robert R. Raisanen
Charles W. Rollman
Michael D. Sekely
Stephen G. Shetron
Brian G. Sichel
William H. Smith
Lorne Stamler
Douglas D. Stokke
Ralph G. Swanson
Edmond I. Swensen
Gordon C. Trombley
Gary F. Tucker
Gerald K. Vairus
William Veesper
Larry G. Watson
Glen Weinburg
James Woudenberg
Michael J. Yambor
Richard A. Yankee

Persons listed are those who donated $25 or more to the Forester. The money from patron's gifts goes toward Undergraduate Scholarships in Forestry and Wood Products.
Some forestry basics cannot be bought.

The basics you'll use in your forestry career cannot be bought. They were given to you: your hands, your eyes, your mind.

You develop these basics through education and experience. And you supplement them with man-made tools.

That's where Forestry Suppliers, Inc. fits in. The tools we sell make it easier for you to develop the basics you were given.

Team up your basics with our tools for your success.

Forestry Suppliers, Inc.
205 West Rankin Street
Post Office Box 8397 - Jackson, Mississippi 39204
1-601-354-3565

The Sign of a Professional Forester

SOCIETY OF AMERICAN FORESTERS 1900

Membership in the Society of American Foresters gives you an advantage you can't get in school.

Contact your faculty SAF representative, or write:

Society of American Foresters
5400 Grosvenor Lane
Bethesda, Maryland 20814
(301)897-8720
We own and manage over 423,000 acres of land in Northern Wisconsin, the Upper Peninsula of Michigan and Minnesota.

Lake States Region Headquarters at Kingsford, MI

District Offices Located at:

Ontonagon, MI
Champion, MI
Newberry, MI

Bemidji, MN

MICHIGAN TECH BOOKSTORE

“A Bookstore and a whole lot more”
Hours: Mon.-Fri. 8 a.m. to 5 p.m.

Greeting Cards
Insignia Gifts
School Supplies
Back Packs

Computer Supplies
Calculators
Paperbacks
Textbooks

Remember we buy used textbooks
487-2410
INDEX

Albee, Stephen .................................................. 18
Andersson, Gregg ................................................. 16
Anderson, Ken ..................................................... 18
Anderson, Lisa ................................................... 37, 44
Anderson, Tor .................................................... 36, 41
Andrews, Jeffrey ................................................. 16, 37, 43
Antoniolwicz, Jamie ........................................... 46
Baker, Loren ....................................................... 41
Baxter, Chris H. ................................................... 30, 36, 40, 45
Bell, Dennis A. ................................................... 8, 43
Berron, Robert J. .................................................. 8
Betikola, Glen A. .................................................. 8
Beyer, Avery ......................................................... 36
Bishop, Todd ....................................................... 37, 41, 50
Bliss, Christine .................................................. 30, 31, 36, 40, 45
Brandon, Angelo .................................................. 37, 43, 44
Brecken, Charles A. .............................................. 36, 46
Brooks, Randy ..................................................... 18, 46
Brough, Johann ................................................... 8
Buckner, Kurt ...................................................... 36
Bugos, Robert ....................................................... 18
Carr, Bernie ......................................................... 8
Cattellino, Peter J. ................................................ 8
Chiang, Vincent L. C. ........................................... 8
Clark, Daniel ....................................................... 16, 43, 50
Cloughter, Terry ................................................... 9
Collins, Naomi ..................................................... 9
Conley, Jeffrey .................................................... 30, 31
Crance, Jeffrey ..................................................... 30, 31
Dahlbuck, Lisa ..................................................... 42
Desanker, Paul ..................................................... 24
Diegel, John F. ..................................................... 9
Dizer, Alex M. ..................................................... 4, 5, 9
Doruske, Paul ....................................................... 45
Dugovito, James ................................................... 9
Duffek, Ralph G. ................................................... 14
Erickson, Joel ...................................................... 41
Erickson, Michael ................................................ 18, 43
Fehring, Daniel .................................................... 30, 40, 45
Filer, Mark ........................................................ 16, 47
Forman, John ....................................................... 41
Fox, Kevin B. ....................................................... 19, 46
Freyer, Warren E. ................................................ 8
Fontaine, Theodore ................................................ 9
Gale, Margaret R. .................................................. 9
Gdusa, Eric ........................................................ 16, 45, 46
Gess, Brett ........................................................ 30, 36, 40, 42, 45, 46
Girschner, Sven .................................................... 24
Grenley, Brian ..................................................... 14
Greens, Sue ........................................................ 17
Guo, Xiaoping ..................................................... 26, 19
Hawst, Bruce A. ................................................... 9
Hawst, Mark ......................................................... 41
Hatala, Robert ..................................................... 19
Hawke, Robert ..................................................... 19, 41
Heimberinger, Derk .............................................. 46
Hines, Charles ..................................................... 9
Hoffler, Steven ..................................................... 19
Hohbald, David ..................................................... 41
Hong, Lee-Rank .................................................... 20
Hong, Yingxue ..................................................... 20
Humphreys, Mary Jo ............................................ 29, 46
Ingenarbon, Barber .............................................. 24
Jackson, Noel ...................................................... 37, 40, 41, 43, 45, 46, 50
Jarvi, Kathryn ..................................................... 36
Jurgensen, Martin F. ............................................. 10
Jurgensen, Mary L. ............................................... 10, 43
Jurmu, Douglas C. ............................................... 10
Kalakan, Mohammed ............................................. 20
Kakkak, Jeff ....................................................... 30, 31, 45
Kamanninen, Sharlene ......................................... 10
Karanis, Timothy ................................................ 30, 31, 45
Karmesky, David F. ............................................. 10
Kelley, Thomas ................................................... 10
Kernan, Erik ....................................................... 41
Knot, Suzanne E. ................................................ 14
Kolppo, Kari ......................................................... 20
Korkko, Mark ..................................................... 17
Kraft, Kenneth J. ............................................... 10
Kulpe, Andrew ................................................... 30, 31
Laks, Peter E. ..................................................... 10
Larson, Gary ....................................................... 21, 46
Lawler, Christopher ............................................. 30, 40, 42
Lee, Andrew ....................................................... 21
Li, Fei ............................................................... 24
Lieby, Hai O. ....................................................... 10
Lindberg, Howard ............................................... 17, 43, 46
Longhini, Andrea E. ............................................ 11
Lyon, Gary W. ..................................................... 11, 14, 43
Maclean, Ann L. ................................................ 11
Mauzer, Mary Beth ............................................... 11
McKas, Peggy A. ................................................ 11
McKitty, Gerard .................................................. 37
McLaughlin, James .............................................. 21
Millard, Steven ................................................... 37, 40, 44, 46
Mittell, Jeanmarie ............................................... 11, 43
Miller, Roswell K. ............................................... 11, 14
Moniken, Thomas ............................................... 41, 46
Moore, John ....................................................... 11
Morse, Jeffrey ..................................................... 36
Mraz, Glenn D ..................................................... 37, 40, 42, 45
N'Laughlin, Robert ............................................. 30, 31
Opperman, Todd ................................................ 30, 31
Ouyang, Huo ..................................................... 30, 31
Pace, Janet ......................................................... 30
Page, Richard ..................................................... 30
Pacific, Robert D .................................................. 30
Peterson, Todd .................................................... 30, 31
Peterson, Rolf O. .................................................. 30
Pickens, James B .................................................. 30
Pruner, Marcia S .................................................. 36
Putnam, Lesley J .................................................. 30
Putnam, Rebecca .................................................. 27
Raeder, P. S. ....................................................... 12
Reed, David D. .................................................... 12
Reilly, Theresa ................................................... 30
Richter, Donna .................................................... 12
Robinson, Dennis ............................................... 12
Rukhalu, Joseph ................................................... 17
Russel, Jennifer ................................................... 9
Sandretto, Sherry .................................................. 9
Sarmack, Lisa ...................................................... 22
Schulte Stokker, Jill ............................................ 12
Sexton, Robert .................................................... 14
Shaler, Stephen M. .............................................. 12
Sharik, Terry L .................................................... 14
Shetron, Stephen G. ............................................ 5
Shin, Dong Ill ...................................................... 30
Society, Anthony .................................................. 30
Spakowski, Colleen ............................................. 37, 44
Stauffer, Edgar ................................................... 30, 37, 42
Stephens, Mary Ellen .......................................... 30
Stimson, David ................................................... 31
Stokey, Douglas D .............................................. 13, 41
Story, Frank H .................................................... 31
Sun, Bernard C. H ................................................ 31
Sunblad, Mary ..................................................... 31
Thomazone, Linda ................................................ 31
Thomazone, Scott .............................................. 31
Thorpo, Scott ..................................................... 31
Tjhe, Daniel ....................................................... 30, 31, 36
Toepfer, Glen ..................................................... 37
Trowbridge, Clark .............................................. 30, 35, 40, 42, 45
Tung, Kuo-Sheng .................................................. 30

62 '89 FORESTER
The 1989 Michigan Tech Forester, volume number 40, celebrates its Ruby Anniversary this year. It covers the academic year from September 7, 1988 through May 20, 1989. The yearbook was published by Taylor Publishing Company and was delivered in September of 1989. The TPC representatives were Tim Haitz and Tom Bilski.

The cover is 100% black Kromekote stock with spice red 28 fifth color rules. The four-color photograph was reproduced from a Kodacolor original. The book is 3.5 by 11 inches, and contains 64 pages. Type sizes ranged from 8 to 60 point. Body copy and captions are set in pyramid condensed with standard leading. Heading typeface is pyramid condensed bold, and the cover is geneva outline.

The Forester had a press run of 275 copies and was sold to students for $5.00 per copy (well below production cost). Costs of production were covered by the Michigan Technological University School of Forestry and Wood Products and by advertising revenues. Advertisers paid 40, 75, 90, and 150 dollars for 1/4, 1/4, 1/2, and full-page advertisements, respectively.

Douglas D. Stokke was the staff advisor, Meral Jackson and Thad Bishop were the coeditors, and the supporting staff consisted of John Yeshe and Dan Clark as photographers, Jeff Morse as typist/photographer, and John Punches as our printer. Special thanks to our guest writer, Tom LaJeunesse, for his excellent job in the dedication. Also, thanks to all the other students who contributed stories and pictures to the book — every bit helps.
In Closing . . .

Well, it's finally approaching the end of the year (and I feel like I'm at the end), but in looking back I have really enjoyed working on the FORESTER — not the long nights, but everything else. It's been a lot of fun seeing the (sometimes) idiotic pictures of everyone on the negatives, and more fun imagining how people would react upon seeing those pictures in their yearbook . . .

In all seriousness (which is scarce in this book) the work has been worth it. I feel like I have left my mark by creating (hopefully) a good yearbook that everyone will enjoy. I don't know where I'd be without my little elf John Punches, who magically printed most of the photos of you guys (after listening to my whining about printing for weeks). Thad Bishop was my right arm — he was there whenever I needed something written up at the last minute, and none of us would be anywhere without our advisor, Doug Stokke. This year I had a great dedicated staff — Dan, John (Yeshe), and Jeff all did more than their fair share. We all feel a sense of accomplishment seeing the yearbook finally finished.

I hope you people enjoy this year's yearbook as much as I do. And if you are interested in working as next year's staff . . .

Thanks to all,

Meral Jackson,
(Co) Editor
FOSTER
1989
MICHIGAN TECH UNIVERSITY
RUBY ANNIVERSARY EDITION