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THE 1988 FORESTER
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THE STUDENTS OF THE
SCHOOL OF FORESTRY
AND
WOOD PRODUCTS
MICHIGAN TECHNOLOGICAL UNIVERSITY
HOUGHTON, MICHIGAN
Greetings to students, alumni and friends of the School of Forestry and Wood Products!

I believe that the School is in very good shape in most respects. This is due to the individual efforts and collective enthusiasm of the faculty and staff. Our programs were reviewed recently by a CSRS (Cooperative State Research Service) team consisting of five experts from universities and government agencies. Most forestry schools are reviewed every five years by a CSRS team. The team's report ranked the School as a "strong program that is competitive with those of much larger institutions" and in the "top ten percent of all schools."

In total, it's been a very good year. The job market continues to improve, and our graduates are equipped with the skills required for initial employment as well as the quest for knowledge that leads to career advancement. We continue to have high-quality students. Our problem is that we need more students. We don't want to return to the days of 500-700 students, but we need a total of 200-225. We've been actively recruiting and we believe the numbers will start to rise from the incoming class size of 20 that's been typical in recent years. We can use your help! Let us know of any potential students.

The faculty members have been very active in research. This activity requires space for laboratories and offices for research staff and graduate students. So, even though we're experiencing low undergraduate numbers, we're desperately in need of additional space. A partial and temporary solution has been the use of office and lab space in the U.S. Forest Service's Harvesting Lab.

Through the efforts of Jim Dougovito (Center Manager), Ralph Duffek, Steve Shetron and others, the Ford Forestry Center is being used more and more for conferences and workshops. A MCC Camp (for 24 youths aged 18-25) is now located at the Center with Joyce Ling the Director.

IWR scientists are now an integral part of the School. John Diebel is IWR Manager. Those of you who receive the alumni newsletter will be getting more information on IWR's structure and activities.

It's been a very good year. Write to us, visit, take pride in Tech forestry.

Sincerely,

W.E. ("Ed") Frayer, Dean,
School of Forestry and Wood Products
Dr. Stephen G. Shetron

The Forester staff proudly dedicates the 1988 yearbook to Dr. Stephen G. Shetron, Professor of Forestry at Michigan Technological University.

Stephen George Shetron was born on May 24, 1934 in White Plains, New York. He attended Alfred State University in New York receiving an associate's degree in general agriculture and forestry in 1955. He then transferred to Michigan State University and earned a bachelor's degree in soil science in 1958. Then, in 1960, Steve received his master's degree in soil science, also from Michigan State University. Steve worked for the Soil Conservation Service Department in Lower Michigan for several years before going to the University of Michigan where he received his doctorate in forestry in 1969.

He was first employed by Michigan Tech at the Ford Forestry Center in Alberta. While there Steve worked on forestry research programs and also did some graduate teaching at the university. Steve lived and worked in Alberta for fourteen years and in 1980, moved to L'Anse and began more teaching at the university.

Roger Rogee, Director of Support Services for MTU's Century II Campaign, worked with Steve at the Ford Forestry Center. According to Mr. Rogee, Steve Shetron was the first soils specialist to be employed at Tech and has had an incredible impact on attitudes toward forest nutrition. He was one of the first to relate soil gravity and drainage ability to the health of trees. His studies in these areas formed the basis for one of the major thrusts of his career, which centers on the productivity of forest stands as related to soil quality. His work in this area has resulted in a number of publications which have benefited the practice of forestry in Michigan.

Another area in which Dr. Shetron has done a significant amount of work is in the important field of revegetation of mine tailing soils. This work has found application in both upper and lower Michigan and has involved the use of both woody and non-woody plants. Recently, Dr. Shetron has also consulted with the U.S. Army Corps of Engineers concerning the revegetation of waterways constructed by the corps.

In addition to these two major areas in which Dr. Shetron has spent a considerable portion of his career, he has also investigated other aspects of forest soils. Quality education of students has long been a concern. Many students have and continue to benefit from his expertise in this crucial area of forestry.

Dr. Shetron's work is not the only thing which occupies his time and energy. While at MSU, he met Ruth Elaine Strobel on a blind date. They were married in 1959. The Shetrons have two children. Lynne, nineteen, is in the medical technology program here at Tech. Becky, is married and lives in Rockford, Illinois with her husband Bob. They are both electrical engineers working for Sunstrand. Ruth is a fourth grade teacher at the C. J. Sullivan elementary school in L'Anse.

In his spare time, Steve enjoys woodworking, and according to his wife Ruth, "He loves his computer!". Steve and Ruth ski, play tennis, and enjoy taking walks. Steve is also very involved in the church and enthusiastically participates in various activities.

Dr. Shetron has been a valuable asset to the faculty here at Michigan Tech. Students, colleagues, and friends alike benefit from his experience, expertise, and enthusiasm. — Helen Shepherd
Clockwise From Upper Left:

One of the many hours spent mapping soils.
When you work hard you have to play hard!
Conducting soil analysis at the Ford Forestry Center.
Daughters Lynne and Becky with Becky’s husband Bob.
Proud daddy with daughter Becky and wife Ruth.
FAREWELL BOB!!

Over 50 friends — faculty, alumni, students, and family members — gathered on February 9, 1988 to "Roast and Toast" Bob Sajdak as his retirement from the School of Forestry and Wood Products has finally occurred. Actually, his formal retirement happened a couple of years ago, but Bob's arm was twisted to teach the Tree Identification and Introduction to Forestry courses during the fall quarter in each of the past two years.

Bob graduated from Michigan Tech, then known as the College of Mining and Technology, in 1959. After working for the Forest Service and the Wisconsin DNR, Bob returned to Tech as an instructor in 1962. With some time off for his masters degree at the University of Minnesota, Bob has taught about 1400 of our 1800 graduates the finer points of dendrology, tree genetics, fire control, and weed control for over 25 years.

The "Roast" was fun for all who participated and listened, and many of the lesser known "truths" about Bob's career were brought to light. The origins of some of the favorite "names" students had for Bob over the years — names like "Black Bob", "Atypical Bob", and "Brushburner Bob" — were reiterated in stories, and some were even dramatized by some of the more imaginative students. Frank Lennings' portrayal of "The Tordon Kid", even to the detail of having his "hair fall out", was especially appreciated by the group.

To "get back" at Bob, graduate student Sue Hart and recent graduate Dave Fehringer, both of whom have been Bob's student assistants, dug some of the more obscure specimens out of the dendro lab and put together a 25 point dendro quiz that Bob was forced to take. Some of the other foresters in the group also attempted it. Rumor has it that Bob passed the quiz — but only marginally — making some of the same mistakes his students have been berated for over the years. "Some people really know how to hurt a guy!"

Even "Bashful Bob", who'd rather not have a fuss made, had a good time. Of course we couldn't let him just sort of fade into obscurity without a party of some kind. The evening ended with everyone shaking his hand on the way out the door. We wish him good health so that he can enjoy an active retirement. We know he's going to continue his consulting and enjoy being a "gentleman farmer and woodlot owner". — Roswell Miller
FACULTY AND STAFF
TERRY G. CLOUTHIER
Custodian
School of Forestry and Wood Products

JOHN R. DIEBEL
Manager
Institute of Wood Research

ALEX M. DINER, Ph.D.
Research Scientist
Forest Biotechnology

JAMES P. DOUGOVITO
Manager
Ford Forestry Center

RALPH G. DUFFEK
U.P. Extension Forester
Ford Forestry Center

PATRICIA M. FLEMINGTON
Research Associate
Forest Biotechnology

MARY L. FRANTTI
Administrative Aid
School of Forestry and Wood Products

ELIZABETH A. GAFF
Clerk
Forest Biotechnology

MARGARET R. GALE, Ph.D.
Assistant Professor
Forest Productivity
The School of Forestry and Wood Products at Michigan Tech has been ranked as one of the foremost educational institutions of its type in the country by the Cooperative State Research Service (CSRS) of Washington D.C. The CSRS ranked the School of Forestry and Wood Products in the top ten percent of all colleges and schools active in the McIntire-Stennis program (funding for forestry research). The school was also ranked as a strong program that is competitive with those of much larger institutions.

The Institute of Wood Research was formally incorporated into the School of Forestry and Wood Products during the past year. As a result, some administrative reorganization occurred. John F. Diebel was named as Manager of IWR for a one year period, and will report directly to Dean Frayer. John received a B.S. in Forest Science from Colorado State University in 1975 and a M.S. in Management Science from the Krannert Graduate School of Management at Purdue University in 1984. He has worked as a forester for Weyerhauser (1975-1977), George Banzhaf & Company (1977-1979), and for the Bureau of Land Management (1979-1983). John joined IWR as a marketing and financial analyst in February, 1985.

The Forestry School will receive $2.3 million to monitor the impact of the U.S. Navy’s Extremely Low Frequency (ELF) communication system on Upper Michigan forests. Studies, headed by Dr. Johann Bruhn and Dr. Glenn Mroz, will attempt to document any environmental changes that occur as a result of the antenna. The effects of the ELF electromagnetic fields will be examined on the life cycle of Northern Hardwoods and Red Pine and also on the decomposition of litter on the forest floor.

Bernie Carr, who teaches Mapping Applications in Natural Resources, was one of four individuals from Michigan to be named to the Society of American Foresters (SAF) Fellows for 1987. Dave Reed has been “busy as a beaver”. He was the tenth top recruiter for new SAF members in 1987.

The forestry building also has some new features. In the halls are wood carvings depicting various scenes of early logging days. These carvings were crafted by Terry Dickinsen of Grayling, Michigan. The School of Forestry and Wood Products now has its own van, which is used for field trips and other events.

There are some new faces around the department this year. Joining the staff is Dr. Lesley Putman, assistant research scientist for IWR. Lesley is a biochemist working in the silvichemicals research group. Dr. Ken Kraft joins us from the biology department. Ken teaches Forest Entomology and Ornithology. Dr. Rolf Peterson, also from the biology department teaches Wildlife Management and Animal Population Dynamics. Dennis Robinson joins the staff as a technical representative for the Michigan Department of Agriculture.

Bill Yrjana, laboratory associate for IWR, and his son Erick, discovered a slab of nearly pure native copper while on a fishing trip in September. The Yrjanas received $500 from the Copper Range Company for their discovery of the 5,950 pound slab. The slab is more than 99 percent pure and will be displayed at the White Pine Mine in White Pine, Michigan.

Several staff families have been expanded this year. Those with male additions include: Paul and Janet Bainbridge (Michael), Alex and Debra Diner (Tristin), and Steve and Robin Shaier (Ross). Gordon and Ann Madean had a baby girl, Heather Ashley. — Colleen Spakowski
Top Left — Home sweet home . . .
Top Right — The forestry van — the pride of the fleet.
Bottom Right — Bill and son Erick find almost pure slab of copper in the UP.
Clockwise From Right:

Now repeat Smolian's formula just one more time Caroline!

Mary Jurgensen. Charged with: Indecent exposure, lecherous behavior, and displaying suggestive material.

Mary Beth tries her hand at ventriloquism.

Gee Janet, do you really like dirt?

I'm sorry Steve, but I'm not budging until you tell me where you caught that 60 inch sturgeon!
GRADUATES
KEN BRUMMEL
B.S., Forestry
Xi Sigma Pi

JOHN CARETTI
B.S., Forestry

DREW CORBIN
B.S., Forestry; Pathology and Entomology
SAF — Vice-Chairman
Xi Sigma Pi — Associate Forester
Pathogen Hockey Co-Ordinator

KEVIN FOX
B.S., Forestry
SAF — Chairman
Xi Sigma Pi — Forester

BOB HAWKE
B.S., Wood and Fiber Utilization
FPRS — Vice-President
MTU Ridge Roamers — Treasurer

TOM HILL
B.S., Forestry
SAF
IM Sports
STEVE HOFFER  
B.S., Forestry: Forest Management  
SAF — Secretary/Treasurer  
Wildlife Club — President  
St. Al’s Parish Council — Parish Service Commissioner  
Alpha Phi Omega — 1st U.P., Alumni Secretary  
Boy Scouts — Scoutmaster Troop 207, Hancock, MI

DAN HOHEISEL  
B.S., Wood and Fiber Utilization  
FPRRS — President  
I.M. Sports

MARY JO HUMPHREYS  
B.S., Forestry  
SAF  
I.M. Volleyball

DAVE KARI  
B.S., Forestry

MARK KOCH  
B.S., Forestry  
SAF  
Xi Sigma Pi  
MTU Forester

KATE LANTZ  
B.S., Forestry: Economics and Management  
SAF  
Xi Sigma Pi
BRUCE LAMPELA
D.S., Wood and Fiber Utilization
Xi Sigma Pi
FPPS

FRANK LENNING
D.S., Forestry

JACK MATTILA
D.S., Forestry
Xi Sigma Pi — Ranger
SAF
MTU Pistol Club

JEAN MARIE MILITELLO
D.S., Forestry
Wildlife Club — Secretary/Treasurer
SAF

ERIC OLSEN
D.S., Forestry
FPPS

JOHN RAUTIOLA
D.S., Forestry
Xi Sigma Pi
CINDY SCHILKE
B.S., Forestry: Urban
SAF
MTU Women's Varsity Basketball Team
IM Sports

SCOTT SWANK
B.S., Forestry: Soils
SAF
Soils Club

CHRIS WATT
B.S., Wood and Fiber Utilization
FPI'S — Membership Chairman
Sigma Phi Epsilon
LOUSIE M. BOS
M.S.
Differences in Productivity between Tsugamah-anthemum and Tsuga-mah-anthemum-vaccinium Habitat Types in the Western Upper Peninsula of Michigan.

RANDALL H. BROOKS
M.S.

THOMAS P. D’AVELLO
M.S.
Interpretive Variability of Soil Map Units and Application of a Geographic Information System for Forest Land Management.

PATRICIA M. FLEMINGTON
M.S.
The Effects of Thiram, Aluminum, and Dow 202 Latex Sticker on In-Vitro Growth of Scleroderma citrinum and Scleroderma macromizon Isolates.

SHAWN P. HAGAN
M.S.
Influence of Seed Rain From Multiple Sources on the Spatial Distribution of Pinus strobus Germinants in a Mixed Pine-Hardwood Successional System.
KARI P. KOLPPO
M.S.
Lignin Condensation Reactions in Different Morphological Regions of Cell Wall During Kraft, Soda, and Acid Sulfite Pulping of Western Hemlock. An Approach Combining Chemical Degradation Reactions and SEM- or TEM-EDXS.

SUSAN M. HART
M.S.
Environmental Factors Affecting Elongation of European Larch Tissue Culture Plantlets.

MICHAEL J. HOLMES
M.S.
Annual Diameter Growth Model Modification and Comparison of Competition Indices in Northern Hardwoods.

JAMES W. McLAUGHLIN
M.S.
Media Effects on Vitrification and Growth of European Larch.

JONI A. MOORE
M.S.
Distribution of Armillaria Clones on ELF Plantation Sites in Michigan's Upper Peninsula.
LINDA EDEL THOMASMA
M.S.
A Test of a Habitat Suitability Index Model for the Fisher in the Upper Peninsula of Michigan.

MARK A. WALLACH
M.S.

XUERONG WANG
M.S.
Structure Changes of Lignin in Soda and Soda-Anthraquinone Delignification of Wheat Straw.

NOT PICTURED:

PATRICIA CONNAUGHTON
M.S.
The Cumulative Effects of Acid Deposition on Plantation Soil and the Growth and Nutrient Assimilation Responses of Pinus Resinosa.

PASCALE RASSATT
M.S.
Relationships between leaf morphology and the ozone response of Fraxinus pennsylvanica and Prunus serotina.
FEATURES
WOOD CARVINGS ADD PERSONAL TOUCH

The forestry building took on a new look this year as wood carvings were added to the walls. The carvings were created by Terry Dickersen, a wood routing expert, from Grayling, Michigan.

The carvings, seven in all, depict logging scenes from early days in the Upper Peninsula. Sugar maple was used for both the murals and the supporting trim. In all, the mural cover 612 square feet of wall space in the building.

Response to the carvings has been enthusiastic. They add a uniqueness and character to the building. Several students have commented that the murals make the building seem warm and give them a feeling of being "at home." But, as one student put it, the best thing about them is that they are made out of wood!
The Soils Lab, managed by Janet Paces and overseen by Dr. Marty Jurgensen, is a very active research and teaching facility for the department. But surprisingly, those not in the forest soils program or employed by the lab know very little about its function and its importance. To the students, room 137 is well known as FW230 lab, four hours a week.

ELF and acid rain are the two major projects in which the Soils Lab researchers are involved. ELF (Extremely-Low Frequency) is a large, ongoing project of which the Soils Lab plays a very specific role. Soil and plant material samples are submitted for ion analysis. "We are a number-generating lab," says Janet. The Soils Lab has been working on ELF data since 1984, when the project was initiated.

Acid rain is a project in joint cooperation between MTU, MSU, U of M, and the U.S. Forest Service. Similar analyses of soil, water and plant material are performed for acid rain as for ELF. The Soils Lab also participates in many other smaller scaled projects including work for other departments on campus.

To get to the nitty gritty, soil, water and plant tissue samples are processed and analyzed for nutrient content. For example, physical analysis of soil can determine particle size range and water drainage capability. Results from these experiments can determine soil and water quality, and nutrient availability.

Jill Schultz-Stoker (the expert) and Char Friesen operate the auto-analyzer. The auto-analyzer analyzes solutions that have been previously processed by Kjeldahl digestion. Kjeldahl digestion converts nitrogen in the sample to ammonium. It is the ammonia that is detected by the auto-analyzer. This process is called total nitrogen analysis and is one of the most frequent tests.

Linda Thomasma is the A.A. specialist — A.A. being short for atomic absorption spectrophotometer. This piece of equipment also requires that samples be processed by digestion before they can be analyzed. The A.A. is used to find cations: calcium, magnesium, potassium, sodium, aluminum, iron, and copper.

Janet Paces is more than just a manager. She does a lot of data reduction and is responsible for most computer work. "I fill in whenever something needs to be done."

Marty Jurgensen is the ultimate head of this lab. A professor of soil science at MTU, Marty arranges work priorities for the lab researchers, troubleshoots with analyses, and approves new purchases for the lab.

On the lighter side, Janet points out the most noticeable result of their work: "Our main job is making dirty dishes. Our work-studies will appreciate that!" — Helen Shepherd
Prior to completion of my Master's degree at Michigan Tech, I was offered the opportunity to work as a summer intern for Mead Paper Corporation (Publishing Paper Division, Escanaba, MI) in their forest regeneration program. I immediately became involved in all aspects of containerized tree seedling production as well as plantation establishment practices in the Lake States. Upon completion of my graduate degree, I was hired by Mead as a Research Forester.

My duties are divided up between normal greenhouse operation and research. Because crop preparation is of vital importance to a containerized operation, I spend a good deal of time acquiring, cleaning, and testing seed. In addition, I assist the Greenhouse Manager in determining sowing strategies for various species and participate in the actual seeding operation.

Data collection is another aspect of crop production that I am responsible for. From initial crop establishment up until final crop shipment the use of an electronic data recorder and microcomputers aid in monitoring crop status and summarizing stock availability information for regeneration foresters.

As I quickly learned during my internship at Mead, research is tied closely with operations. Besides conducting stock production research at the greenhouse facility, my duties are carried over into the field. We are always trying new or alternative silvicultural/regeneration practices in an attempt to improve seedling growth and establishment. Herbicide research also plays an important role and involves updating present chemical site preparation and release use parameters as well as screening of new herbicides. I work closely with the other regeneration personnel in trying to provide solutions to problems they encounter. Seeing results implemented is very gratifying and often spurs additional ideas for improvement.

Working in Escanaba and being involved in forestry research, have had a unique opportunity to interact with the forestry faculty at Michigan Tech. As an alumnus, I feel the academic and work experience I received at Tech was very beneficial, as is maintaining a professional working relationship with the School of Forestry and Wood Products.

— Charlie Becke
I received my B.S. degree in forestry/wildlife in 1984. Continuing my education, I went on towards a M.S. degree, also in forestry/wildlife. As I was preparing to defend my thesis in November 1986, I answered an ad for a field forester in the Daily Mining Gazette. I was offered the position and began working the week after my defense. At that time, the name of the company was Universal Oil Products (U.O.P.), whose land ownership included what once belonged to Calumet and Heda Mining Company. Shortly thereafter, we broke off of U.O.P. and became Lake Superior Land Company.

I receiv ed my O.S. degree in forestry and wildlife in 1984. Continuing my education, I went on towards a M.S. degree, also in forestry and wildlife. As I was preparing to defend my thesis in November 1986, I answered an ad for a field forester in the Daily Mining Gazette. I was offered the position and began working the week after my defense. At that time, the name of the company was Universal Oil Products (U.O.P.), whose land ownership included what once belonged to Calumet and Heda Mining Company. Shortly thereafter, we broke off of U.O.P. and became Lake Superior Land Company.

LAKE SUPERIOR LAND COMPANY

The company owns approximately 1/4 million acres of forest land in the Copper Country, as well as the Goodman forest in northern Wisconsin. Our forestry staff in Calumet, all MTU graduates, includes: Keith Brey (head forester), Jim Pardini, Mike Backman, Brian Fettig, and myself.

Our lands produce approximately 6 million board feet annually. Since we have no responsibilities towards a mill, our wood is sold on the market for the highest price available. Until just recently, much of our land was under cutting contracts with various companies. As a result, the timber quality as well as the annual cut are much below their potential, and we have relatively little knowledge of our forest as a whole. At present, we are in the process of collecting inventory data and are beginning to formulate a forest management plan.

My responsibilities include supervision of 2 to 4 contract logging crews. This involves cruising, job layout, marking timber, coordination of shipping, scaling, etc. I am also charged with developing a functional computerized inventory management system. This is proving to be quite a challenge and will probably keep me busy for a year or two.

Since beginning work in 1986, I was married in October 1987 to Sara Nepper, who was a chemistry major at MTU. We enjoy living in the Copper Country and look forward to staying here for a while.

Best of Luck,
Dave Fehringer
LOOKING BACK...

Hockey — Forester style.

Floyd Marita and Mary Slocum — Lumberjack Ball 1960.

Forestry Club in 1960.

Who needs swords!

The forestry team puts in a good showing during Carnival.
Ready or not — here we come.

Summer camp 1949.

Supper’s ready!

So this is what foresters do for fun!
RESEARCH — NEVER A DULL MOMENT

Did you know that the School of Forestry and Wood Products is one of the most active units on campus in terms of research? Research is an integral part of our programs which helps to keep faculty up-to-date in their teaching and provides training for graduate students. It also creates plenty of opportunities for undergraduates to work on a research project both during the school year and through the summer. You have probably heard a lot about the "ELF" and "acid rain" projects, but did you know that:

* Peter Laks has been raising flies in the mechanical properties lab and then trying to kill them with chemicals from bark?
* Gary Lyon and John Diebel have assessed wood products industry opportunities in Michigan for the Department of Commerce?
* Marty Jurgensen is now a renowned, and of course, infamous world traveler?
* Bernie Sun is making some simply unbelievable fiberboards?
* Ann Maclean not only teaches all of the remote sensing classes and does research using satellite imagery, but has also managed, in the last year, to build a house, have a baby, raise and train puppies, . . . !!!!
* Jim Pickens continues his modeling wizardry for the Forest Service?
* Roz Miller not only tells people how to make maple syrup, cut firewood, enjoy nature, etc. in his column in the local paper, but also authored the fire chapter in the latest FORESTRY HANDBOOK?
* Dean Froyer keeps busy by assessing U.S. wetland acreage (he doesn't have anything else to do!)?

There's lots, lots more going on, which helps to make this quite an interesting place. Now, if Peter could only find a way to make those flies smell better!

— anonymous (Due to that remark about the Dean!)
Top — Survivors of fall camp. BACK ROW: Gregg Anderson, Theresa Reilly, Glen Toepfer, Edward Fredrickson, Derik Heimerdinger, Brian Walters, John Zenk. FRONT ROW: Paul Doruska, John Yeshe, Gregory Ketola, Gerald McKitty, Jeffrey Steinhraus, Jennifer Russell. Technicians not pictured are Mark Doyle and Chris Bender.

Bottom Left — Here we go again . . . another ride on the bus.

Bottom Right — Brian and Gerry use a reticle to get merchantable height.
The student body count at the Ford Forestry Center was the smallest in recent memory according to our mentor and fall camp coordinator, professor Roswell Miller. What we lacked in quantity, we made up for in quality (right Ros?).

Only fifteen of us attended camp this year: thirteen foresters and two technicians. The number of students was small enough that the guys were divided into houses eleven and six (soon to be known as the 'wards'). The girls were put into the dorm. I think that Jenny and Theresa will agree that the guys got the better end of the deal.

As I mentioned, Roswell Miller was the camp coordinator and also professor of the fine art of Land Measurements (but Ros, you told me to keep my eyes on the stake). Dean Frayer became the resident expert for Forest Measurements and Inventory. Terry Sharik and Johann Bruhn taught Forest Ecology and Forest Science respectively. Ann Maclean made an appearance (I think) to show us what trees look like from way up in the air. Denny Baril and Jim Dougovito rounded out our teaching staff. Shawn Hagan (you didn’t reach, did you Shawn?) was our graduate assistant. He drove a mean bus, became an expert at muffler repair, and answered questions after hours and between beers. Blackie, the dog, returned as camp mascot (he slept in Glen’s bed).

We recreated according to our own personal tastes. As I mentioned, Glen shared his bed with the dog. John Z. and Derek fished for silver salmon in the Falls River while Paul and Jeff tried to figure out what all those brown spots were on the Ford Lake brookies. Greg K. made sure that all the roads were clear of grouse at all times. Ed, on the other hand, became the resident expert on waterfowl identification. Jenny and Theresa answered phones, and John D. carried a deer head in the trunk of his car (just in case he found a deer wandering about that needed one). Gerry and Brian translated the names of local attractions and some of our professor’s lectures for us. Mark and Chris worked at determining the exact number of bounces of a superball it took to get Paul out of his room.

But what did we actually learn you say? Well, we got together and after some deep philosophical thought came up with a few things. We learned that:
- When you twist a logger’s tape, you need a new logger’s tape.
- When Jim D. said that he only graded the three best faces of a log, he never was talking about the same three faces we were.
- When Terry S. says ‘field trip,’ the emphasis was usually on the ‘trip.’
- Naomi, the cook, is a very nice lady that must have done the best with what she had.
- You should not try to fool Dean Frayer on how much of a sugar maple is culled due to yellow rot; He’ll cut that sucker down and prove you wrong.
- Denny knows how to smile in adversity, he smiled through the whole tree felling exercise.
- Johann lectures better without jack pine cones whizzing past his head.
- You can drastically reduce the number of trees in your plot sample — just knock down the borderline trees.

We did learn quite a bit really. My personal opinion is that fall camp is what gives Tech foresters the edge over those from other schools. Denny and Jim D. showed us that there is a big difference between field foresters and classroom foresters. I know we all came a little closer to being able to practice what our professors tried to preach.

Thanks to the Forestry Department for making that kind of training possible.

— Gregg Anderson (sometime resident of ward 6)
The Ford Forestry Center is one of three areas comprising the School of Forestry and Wood Products. The center serves as a focal point for silvicultural research, forest management, and primary processing for forest products. It also serves as an instruction facility and demonstration area for forestry students and others.

The center is located 42 miles south of Houghton in Alberta. This once small town was developed in 1936 by Henry Ford as a model lumbering community. The community eventually reached a population of 65, of which 25 were employed at the mill. The Alberta mill once supplied Ford with lumber for station wagon bodies, automotive parts, and defense production. The schools at Alberta offered classes from kindergarten through eighth grade. Improvements in transportation and greater proportions of metal and plastics in cars forced the lumbering operations in Alberta to finally end in June of 1954.

The Ford Forestry Center was obtained as a gift from the Ford Motor Company Fund. On November 30, 1954 Allan W. Merrell, the vice president for the Ford fund, announced the gift to the Michigan Tech forestry department and turned over the property deed to Grover C. Dillman, president of the college. The original facility included 12 residences, 12 garages, a fully equipped sawmill, 2 school houses, a combined kitchen and dining hall, an office building, a utility building, a 2 acre man-made lake, and 1703 acres of land. The center was later upgraded with a small greenhouse, a tree nursery, research offices, a complete soils laboratory, and an expanded dormitory. The sawmill was also upgraded with a five foot band sawmill capable of cutting 15,000 board feet of lumber daily. The sawmill was last used in 1982.
Since 1954 additional forest land adjacent to the property has been added so that the center now consists of 4110 acres. The property supports nearly 10 million board feet of northern hardwoods and hemlock timber stands, as well as more than 10 thousand cords of jack pine, aspen, and paper birch pulpwood stands. Subsequent gifts of land by the Michigan Department of Conservation now permit the center to conduct research on most of the northern forest types and soils occurring in the state of Michigan.

The Ford Forestry Center is also the site of the third Michigan Civilian Conservation Corps Residential Center. The MCCC is similar to the Federal Civilian Conservation Corps, which was popular during the depression. The two primary goals for this group are: (1) to improve and protect Michigan's Natural Resources, and (2) to offer constructive work experience and training to economically-disadvantaged young men and women to increase their ability to secure unsubsidized employment. Some examples of MCCC work projects include state park improvement, trail development, construction, stream improvements, erosion control, and general maintenance.

The center is now a “multiple use” facility. The primary operation of the center is to support research for the School of Forestry and Wood Products. The center is also used as a facility for the fall camp practicum and as a mini conference center for primarily forestry related topics.

Jim Dougavito is the manager of the center. Of their 4,000 acres of timber, about 2,000 is comprised of northern hardwoods and 2,000 is pine. The hardwoods are selectively managed on a ten year cutting cycle and yield approximately 15,000 bdft./acre/year. Aside from being the manager, Jim is also involved in the Michigan Sawmill Safety Program in cooperation with Bay De Noc community college. Ralph Duffeh is an extension forester for Michigan State University. He coordinates some of the workshops at the center and also gives lectures around the area. Besides Jim and Ralph, there are five other full time employees at the center.

The center blends a favorable location along with abundant facilities to provide instruction and training in forestry related areas. The Ford Forestry Center is also used as a demonstration area where the results of long-term and short-term forestry practices may be observed and where special projects may be conducted.
Various seminars are held throughout the year, sponsored by the different clubs within the Forestry and Wood Products Departments. A wide range of topics were covered this year. Here we have highlighted a few of them.

CLOCKWISE FROM UPPER LEFT:
— Cornell DeLong, outdoor writer, talked about the deer bait debate.
— Rick Baron, owner of Baron Log Homes, explained log home construction. Here Rick demonstrates the use of the scriber, which is used to mark the logs for a perfect fit.
— Joel Holtrap, Deputy Supervisor for the Nicolet National Forest, informed us on the interaction of roads with forest management activities.
— Representatives from Weyerhauser spoke on the business philosophy and goals of the Composite Products Division.
FRESHMEN

BACK ROW: Clark Trowbridge, Dan Fehringer, Bill Marquardt, Brett Gess, Ray Slawski. FRONT ROW: Kirsten Steele, Tom Skinner, Todd Opperman. NOT Pictured: Christine Bliss, Jeff Kakuk, Andrew Kulpa, Mary Stockert.

BACK ROW: Joel Erickson, John Forhman, Dave Haheiels, Tony Sovey, Gerry Mckitty, Brian Worers, Ed Fredrickson, John Zenk, Derek Hermelinger, Jeff Steinkrau. FRONT ROW: Jeff Conley, Scott Troop, Eric Sier, Matt Rintamaki, Thad Bishop. NOT Pictured: Greg Ketola, Jennifer Russell, Bob Sexton.

SOPHOMORES
JUNIORS


SENIORS

Mark Filer, Susan Gresens (So it’s taking us a little longer ... 'mon — Rome wasn’t built in a day!) NOT PICTURED: Gregg Anderson, Steve Nyhoff, Todd Wieringa.
WOOD and FIBER STUDENTS

SAY YA TO DA U.P., EH?

I came, I thawed, I transferred . . .
Survive Upper Michigan and the rest of the world is easy.
If you love Upper Michigan, raise your right ski.
Upper Michigan: where visitors turn blue with envy.
Save a Yooper, eat a mosquito.
One day it’s warm, the rest of the year it’s cold.
Upper Michigan, Mosquito supplier of the world.
Upper Michigan: home of blond hair and blue ears.
Upper Michigan: come fall in love with a loon.
Land of many cultures . . . mostly throat.
Where the elite meet the sleet.
Upper Michigan: closed for glacier repairs.
Land of two seasons: winter is coming and winter is here.
Upper Michigan: glove it or leave it.
Upper Michigan: Have you jump started your kid today?
There are three things you can grow in Upper Michigan; cold, colder and fatter.
Many are cold but few are frozen.
Why Upper Michigan? To protect Ontario from Wisconsin.
Land of 10,000 Makis.
You are entering Upper Michigan; use alternate route.
The MTU Student Chapter of The Wildlife Society was very active in 1987-88. At our monthly meetings, we hosted guest speakers who discussed current issues in wildlife conservation. Among our speakers were Rob Aho, wildlife biologist for the Michigan DNR, and Cornell DeJong, a popular outdoor writer. We also held several fund raisers by selling wildlife posters in the Memorial Union and the Copper Country Mall.

The North-Central Student Chapter Conclave was a great time for the six members who went. It was held at the University of Wisconsin at Stevens Point in April. The presentations were informative, the people were friendly, and the nightlife was exciting. All of our members took part in the Prairie Chicken census, which is taken each year by U of W Stevens Point.

Our biggest project for the year though was making an informative sign to display at the Sturgeon River Sloughs Wildlife Area near Chassel, Michigan. Working closely with the Michigan DNR we were able to put erect a sign showing some of the history and natural features of the area.

Our officers for the year were:

President: Dan Fehringer
Vice President: Clark Trowbridge
Treasurer: Michael Schell
Secretary: Stacey Clarkson

SAF
Student Chapter

The fall wood cut was once again very successful at raising the necessary funds to send our "budding" conclave team to Michigan State, although we have been operating on a deficit ever since (I thought that only the federal government could do that!). We had a good turn out for the splitting although a few die hards had to finish it up during a blinding snowstorm at night with the use of my car's headlights. We had so much fun during the fall wood cut that we also planned a spring wood cut.

This year's Conclave was held at the site of Michigan State's fall camp in Tustin, Michigan on October 16-18. In all, ten people from the School of Forestry and Wood Products attended. Of the nine basic events, the students from Tech managed to place in two of them. Overall, the team managed to tie for last place. However, traditions were not to be broken this year, and the tree did fall — a Populus churpuloides.

The officers for the 1987-1988 school year were as follows:
Chair: Kevin Fox
Vice Chair: Andrew Corbin
Program Coordinator: Howard Lindberg
Secretary/Treasurer: Steve "Goofy" Hoffer

The club had to purchase a sauna stove because last summer someone acquired the one at the cabin for their personal use. The cabin is generally the same although it is in dire need of electrical work.

Our winter carnival efforts did not impress the judges but we had fun trying. Some individuals would probably rather forget the one nighter attempt; we had too many chiefs and not enough indians. A lot of the chiefs were trying to "roll" innocent passers-by, but were unsuccessful — Thank God! However, we did have one casualty — a trash can got rolled.

The undergraduate snowshoe softball team was triumphant this year. The undergrads shut out the grads and faculty by a score of 8 to 0! Way to go!

The club, in conjunction with the School of Forestry, sponsored 6 student representatives to attend the SAF convention at October 18-21 in Minneapolis, Minnesota. The theme for this year's convention was "Economic and Social Development: Role For Forests and Forestry Professionals." The trip consisted of 4 days of meeting new people, looking for jobs, listening to informative lectures, and exploring the city of Minneapolis — but not particularly in that order. It seemed that certain sections of the city got explored more than others. According to those who went, the trip was well worth falling behind in school.

— Kevin Fox, Cha
Who's on first?

Bring them home Dave.

I got it, I got it!

Meral and Sue try their hands at log rolling.

Dave during the speed chop trials.
XI SIGMA PI

ALPHA ETA

CHAPTERS

LEFT TO RIGHT: Mark Koch, Howard Lindberg, Jeff Andrews, Lisa Anderson, Jack Mattila, Kevin Fox, Colleen Spakowski.

Xi Sigma Pi provides a service that has almost become a necessity for many in the forestry department. What would it be like not to have that cup of morning coffee or breakfast doughnut waiting for you when you came in for an 8:00 class. I know that I probably would have slept through a few classes if it weren't for my morning coffee! It was always interesting to find out what the coffee of the day was like. I think we should designate a quality control manager for next year because the coffee ranged from hot water (someone forgot to put coffee in the coffee pot) to gear lube (two people filled the coffee pot). It was also pointed out to me by a concerned student that hot cocoa mix and chocolate drink were not interchangeable — oops!

Each year the Alpha Eta Chapter sponsors a symposium related to a topic in natural resources. This year we felt that we would like to receive more exposure to the herbicides (not as test specimens) so we chose the topic of "Chemical Use in Natural Resources." We recruited speakers from the Environmental Protection Agency, Michigan Department of Natural Resources, Androcid Products Inc., Dow Chemical Inc., Mead Paper Inc., and the U.S. Forest Service. Our faculty advisor, Dr. Gary Lyon, put in much time and effort to make this year's symposium possible.

The officers for the 1987-1988 school year were as follows:

Forester: Kevin Fox
Assoc. Forester: Andrew Corbin
Ranger: Jack Mattila

Sec./Treas.: Jeffery (Spike) Andrews
Faculty Advisor: Dr. Gary Lyon

We had added four new initiates to undergraduate membership during this school year. They are Eric Gdula, Colleen Spakowski, Lisa Anderson, and Howard Lindberg. They seem to be picking up the fine art of making coffee quite well. I am sure the graduating seniors are leaving the coffee tradition in competent hands. We would also like to wish the graduating foresters the best of luck out there in the real world. Watch out for those run-away skidders, hazard trees, and those environmentalists!

—Kevin Fox, Forester.
Forestry Day . . .
. . . and Symposium

The theme of this year's symposium was "Chemical Use in the Forest." Speakers and topics were as follows:

Mr. Ted Weidenfeller, Androce Products, Inc., "Introduction — Overview of Forest Chemicals in the Lake States";
Mr. Brad Venman, Waste Management Division, Michigan DNR, "Environmental Concerns for Pesticide Usage in Michigan";
Mr. James Whorton, DuPont Sales Representative, "Making Today's Agricultural Chemicals Safer";
Mr. John Johnson, Mead Paper Company, "New Technology in Forest Vegetation Management";
Mr. Robert Heyd, Region 1, Michigan DNR, "Prescribing Herbicides for Forest Vegetation Management";
Mr. Larry Yarger, Region 9, USDA Forest Service, "Region 9 Forest Service Pesticide Policy"; and
Ms. Sally Schiller, Pesticide Section, EPA, "Environmental Concerns for Pesticide Usage and New and Potential Legislation"

Scholarships and Awards:
Howard Lindberg: $1000.00. Second place in the Northeastern Logger's Conference for his paper.
John Yeshee: $600.00. Timber producers of MI/WI
Dr. Gary Lyon: Appreciation award for his work as advisor of Xi Sigma Pi.
Denny Baril: Appreciation award for his work.
Dr. Mary Jurgensen and Dr. Gary Lyon: Outstanding Teacher Award.
Dr. David Reed: Appreciation award for his work as advisor for the Society of American Foresters.
Tom Hill: Best narrator of hunting and fishing stories award.
Dr. Warren Frayer, Mary Frantri, Mary Beth Maurer, and Andrea Longhini: Certificates of appreciation.
Dr. Ann Maclean: Big Screw Award. Ann beat competitors by at least $60.00!
Jim Pickens: The "Golden Fish Award" for being so willing to share fishing stories and techniques with students.
Sue Gresens and Mark Koch: Certificates and honoraria recognizing outstanding work on the 1988 Forester.

Dr. Gary Lyon discusses environmental issues with EPA representative Sally Schiller.

For all you do this Bud's for you.

Surprise! You're on the staff for next year too!
F.P.R.S. (87-88) It has been an active year for the Forest Products Research Society. The year began with thoughts of building a dry kiln for the schools use. Doug Stokke and Steve Shaier started to look into the funding of such a dry kiln. The kiln will be a project for F.P.R.S. members to work on, as soon as full funding can be found and a site designated.

During the winter term interest turned to the electron microscope. Samples of red oak and aspen were prepared by F.P.R.S. members Bob Hawke and Dan Hoheisel. A special F.P.R.S. meeting was called, during which Doug Stokke took the F.P.R.S. members to the chem-mer building to view the samples under the electron microscope. The members found it very interesting to view the outstanding microscopic nature of wood.

On Wednesday March 9 the F.P.R.S. supported a talk by three Weyerhaeuser composite products division interviewers. The interviewers, Russ Berg, Bev Vine, and Hank Goldberg gave an interesting talk on the business philosophy and goals of Weyerhaeuser's composite products division. After their talk refreshments were served as students and faculty asked questions.

On April 6 Rick Baron of Baron log construction was brought in to give a talk on the building of log homes. His topic specifically entailed scribe fit log construction with full round log saddle notch. Rick brought in a lot of his tools, a few video tapes, and some slides of homes he had built. He also gave an in-depth demonstration of how scribing should be done on some cedar logs he had brought in. A large crowd of about 60 people showed up for the talk, due to the highly publicized event. Many of the people attending the talk were residents of the surrounding area who had an interest in building a log home or camp.

Dr. J. D. Wellons from Georgia-Pacific's Chemical Division in Atlanta visited the School of Forestry and Wood Products on April 26 and 27. He presented two talks to students and faculty on "What It Takes To Succeed In Industry" and "Trends In Wood Adhesives." Officers this year are as follows:

President — Dan Hoheisel
Vice President — Bob Hawke
Membership Chairman — Chris Watt
Treasurer — Joe Rushlau

The club hopes to become very active during the next school year, and has a couple of ideas for fund raisers. The big project we hope to make money on is that of constructing monoliths (boar with soil profiles mounted on them) consisting of soils found in it U.P., and selling these to other schools who do not have such profiles. Steve Sherron has photos of the soil profiles which will be mailed to various school to view, and hopefully, be interested purchasing a monolith. Another possible fund raiser for the upcoming year is to conduct soil pH tests for any interested parties.

As of now, the club is still in the process of reorganization and officers have not been elected at this time.

— Randy Brooks

Dan Hoheisel
INTRAMURAL SPORTS

Pathogen Hockey

Foresters

Smokey's Crew

Nepher's Zephyrs

Pathogens
THE 1988 FORESTER STAFF

SUSAN GRESENS
Editor

MARK KOCH
Business Manager

DAN FEHRLINGER
Photographer
DOUG STOKKE  
Faculty Advisor

MARK FILER  
Photographer

COLLEEN SPAKOWSKI  
Writer/Typist
GOTCHA!

Randy's future is so bright, he's gotta wear shades!

There's more than one way to get to an oyster mushroom at the top of a tree!

Run loose with the moose in the U.P.!

It's snowbird Shawn!

Forget something, Bob?
Frank, Randy, Marty, Ed. and Hal. Bowling with the Dean is a great way to increase your grade point, right guys?

Senior Dan Hoheisel (right) absorbs gems of wisdom from grad students Bob Hawke and Sven Girschner.

You got a friend at the BGIB!

HA-HA! Somebody finally got Sue's picture!

Our illustrious dog sled racers (Meral, Sue, Sue, Lisa) and their "Huskies" (at right). Mush, guys, Mush!

Who are those masked men?
Top — Wait, show me how to make a noose just one more time.

Middle — Dan Fehringer applying his mapping skills. Yes, some of us actually do work around here!

Bottom — Mark and Sue hiding from the camera.

Trees are the world.
Long live the Timber Beasts!
Basil area equals best guesstimation due to broken prism.
None of us knows anything about forestry, we’re just here for looks!
It’s nice if you like bugs.
ABOUT FORESTRY

Forestry is unique.
The few, the proud, the Foresters!
Trees are beautiful.
It's great stuff!
Herbicides!
What is there to say? Forestry is all there is!

Top — Look Sven, just press control-alt-delete, and all your problems will be solved!
Middle — The Foresters celebrating in high style.
Bottom — It has been determined that a computer science degree is a prerequisite for upper level forestry courses.
And I bet you thought all Foresters were a bunch of tough guys!

A favorite pastime of most Forestry students.

"Horns off" to the 1988 graduating class!
Patrons

Albee, Stephen I.
Baril, Dennis and Bonnie
Birtz, Robert E.
Boldt, Jack G.
Borak, Robert A.
Briggs, William A.
Bruhn, Johann N.
Byrd, Gerald C.
Chaing, Vincent
Daniels, Stephen J. Lt. Col.
Dumroese, Deb and Kas
Frontti, Mary L.
Frayer, W. E.
Goodman, James B.
Jurgensen, Marty F.
Karnosky, David F.
Karr, William L.
Kesti, Susan E.
Lundberg, Robert J.
Mroz, Glenn D.
O’Brein, D.
Palardy, Robert D.
Peterson, Rolf O.
Pickens, James B.
Puuri, Carl R.
Rollman, C. W.
Savich, John W.
Shetron, Stephen G.
Stokke, Douglas D.
Stone, Gregory A.
Spano, Scott D.
Veessen, William
Woudenberg, James
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COLOPHON

The 1988 Michigan Tech Forester is volume number 39 and covers the academic year from September 8, 1987 through May 21, 1988. The yearbook was published by Taylor Publishing Company, 1550 W. Mockingbird Lane, Dallas, TX 75235 and was delivered in September of 1988. The TPC representative was Randy S. Evosevich.

The cover is 100% block Kromekote stock with 826 yellow fifth color rules. The four-color photograph was reproduced from a Kodacolor original. The book is 8.5 by 11 inches, contains 64 pages, and is printed on 80 pound matte stock. Type sizes range from 8 to 48 point. Body copy and captions are set in Serif Gothic with standard leading. Heading typeface is Serif Gothic Bold. Division page headings are set in Optima Bold. Folios are 8 point Serif Gothic.

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 borne by the Michigan Technological University School of Forestry and Wood Products and by advertising revenues. Advertisers paid 40, 75, 90, and 150 dollars for ½, ¼, ⅛, and full-page advertisements, respectively.

Douglas D. Stokke was the faculty advisor. Susan M. Gresens was the Editor and created the design concepts of the book. Mark A. Koch was the Business Manager. They were assisted by a number of other students, but Sue and Mark were ultimately responsible for carrying out the project and bringing it to completion.
IN CLOSING....

I hope you have found the previous pages to be informative as well as enjoyable. I’d like to extend a big THANK YOU to all the students who came out in the “freezing cold” (what kind of foresters are you anyways?) to be in the cover picture. I would especially like to thank our advisor, Doug Stokke, for all the time he put in above and beyond the call of advising, and Mark Koch for all the work, the long nights, and the frustrations he put up with (just remember guys - two steps behind and to the left!).

Although I did not have any publication experience, I was really excited about this project when I volunteered (I must have been out of my mind!) to become the editor last fall. Unfortunately not many students share my motivation and it was difficult to find people who were willing to give up some of their spare time for something they would receive no credit or pay. It is discouraging to see such a lack of enthusiasm for something that is totally unique to the forestry department. Look around this building. There is no other place on campus that so well reflects the major of its students. There is also a closeness among the faculty and students here that I challenge you to find in any other department. This has been my "home" for the past three years and these people have been my "family". To me this book is a reminder of some fun times (well okay, so living in the computer lab isn’t so much fun) and some good friends.

I feel a great sense of accomplishment and, if I do say so myself, a lot of pride when I look at this yearbook. Hopefully, that will be all the encouragement people will need to continue this tradition, known as the Forester.

Sincerely,

[Signature]

Susan M. Gresens
Editor