TREES make the world a better place in which to live!
Six years ago, the three forestry units at Michigan Tech were consolidated with the creation of the School of Forestry and Wood Products. Combining the academic Department of Forestry with the two forestry research divisions, the Ford Forestry Center and Institute of Wood Research, the new unit enhanced the coordination of forestry personnel, facilities and activities at the University.

The man chosen to head this school was Dr. Eric A. Bourdo, Jr. who became the first Dean of Forestry and Wood Products in 1968. The Forester salutes Dean Bourdo for his accomplishments in advancing forestry at Michigan Tech, as a member of the teaching faculty, as Director of the Ford Forestry Center, and as Dean of Forestry and Wood Products.

Dr. Bourdo hails from Muskegon, Michigan. During his boyhood, spent on a farm near that city, Eric developed his lifelong interest in nature, natural resources and conservation.

After graduating from Muskegon High School in 1935, Eric found employment in the foundries and machine shops of Muskegon. He was determined to obtain a college education, and saved much of his income for that purpose. In 1939 he enrolled at Michigan Tech, and graduated with honor in 1943, receiving a B. S. Degree in forestry with a minor in chemistry.

Following a period of employment with the Goodyear Tire and Rubber Company in Akron, Ohio, Eric joined the forestry consulting firm of Pomroy and McGowan, in Arkansas. The following year, in 1946, he returned to Michigan Tech and joined the Forestry Department faculty as an instructor. In 1951 he was promoted to the rank of assistant professor, and in 1955 he became an associate professor. Three years later he was advanced to the rank of professor.

During his early years at Michigan Tech, Eric also continued his education. He received the M. A. Degree in adult education from the University of Michigan in 1951. In 1953 he took leave of absence and entered doctoral studies at Michigan. He received the Ph. D. degree from that institution, with majors in forestry and botany, in 1954.

In 1955, Dr. Bourdo was appointed the first Director of the Ford Forestry Center, a short time after its establishment. In this capacity, he undertook the formidable task of building up the staff, facilities, and programs in research, demonstration and education which have taken the Center to the forefront among the nation's forestry research establishments.

On March 22, 1942, Eric married Charline Leadly in Muskegon. The couple have three children, Eric III, Laura Lynn and Michael. They also have one grandchild, Eric IV.
In addition to his professional work, Dr. Bourdo enjoys many outside interests. He is an avid bird-watcher, having recorded observation of more than 500 species. His plant collection contains more than 27,000 specimens, preserved at the Ford Forestry Center herbarium. He also enjoys the game of golf.

His travels have taken him to every state except Alaska and Hawaii. Dr. Bourdo attended the World Forestry Congress in Buenos Aires in 1972, and has traveled to Mexico four times.

A member of many professional and civic organizations, Dr. Bourdo is listed in Who’s Who in America. In 1971, he received the Distinguished Service Award presented by the Wisconsin-Michigan Section, Society of American Foresters. He is a member of the Governor’s Wilderness Board and a former member of the Governor’s Natural Areas Advisory Board. He served as President of the L’Anse School Board and as Chairman of the Baraga County School Area Study. Through activities with regional planning and development agencies, Dr. Bourdo has contributed to the economic progress and welfare of the Upper Peninsula.

Since becoming Dean, Dr. Bourdo has guided the School of Forestry and Wood Products with vigor and decisiveness. The Department of Forestry has increased in faculty, from 10 to 13 fulltime members and in total faculty from 12 to 17. Rapid growth in student enrollment also has occurred during this period. The two-year Forestry Technician program, conducted at the Ford Forestry Center, has been enlarged to include four faculty members.

Forestry education and research at M.T.U. has progressed to new levels of attainment and recognition, within the University and throughout the region and nation, during this period. Although space does not permit a full recounting of Dr. Bourdo’s accomplishments, the Forester presents these highlights of his career in this salute to an outstanding forester, educator, research leader and alumnus, Dean Eric Bourdo.
A SPECIAL THANKS
FROM THE FORESTER STAFF

This edition of the Forester marks its twenty-fifth printing. This year's Forester staff would like to extend a special thank you to Dr. C. Richard Crowther for his advising of the Forester for 17 years. Dick's background in journalism and forestry make him an excellent advisor.

Dick graduated from East Waterloo High School, Iowa in June 1942. He entered Iowa State University and received his B.S. in Forestry in March 1947.

After graduation he worked in New Orleans, Louisiana on the Naval Stores Review for a year. He then returned to Lake Mills, Iowa and became editor of the Lake Mills Graphic. Selling advertising, taking pictures and meeting deadlines kept Dick busy from 1948 to 1953. He also served in the Army during this time.

In March of 1953 he returned to Iowa State and began working towards his Master's Degree. He received his degree in March 1956 and began teaching at Michigan Tech. In 1957 he became advisor of the Forester and had the yearbook enlarged to its present size. He has been teaching and advising the Forester since that time except for one year spent at the University of Michigan, where he received his Ph. D. in Forestry in December 1971.

Besides advising the Forester, Dick is a very active bowler and has several fine trophies to show for his achievements. He also cross-country skis, boats and canoes, and is involved in politics. He is treasurer for the Republican County Committee and is regional chairman of the 11th Congressional District.

Dick is an invaluable part of the Forester staff. Without him the Forester wouldn't be what it is today—a fine publication.

Ann Leach
Left to right: Gary Pisoni, Paul Anderson, Dean Bourdo, Walt Serranen, Lawrence MacDonald, Dave Erickson

Undergraduate enrollment in the Department of Forestry has again increased to 569—a gain of nearly 6 per cent over last year—and all of our pre-enrollment forecasts for next fall support the fact that this trend will continue. The job market has been reasonably good; in fact, all of last year’s graduates have been placed. Enrollment and job placement of two-year Forest technicians, who study at the Ford Forestry Center, also were highly satisfactory.

The enrollment increase has caused some crowding problems in our six year old Forestry building. Some of the largest classes have had to be held in other university buildings.

Last fall, the Society of American Foresters informed us that we had been accorded full S.A.F. accreditation. The report of the accreditation team was extremely pleasing to the Forestry Faculty.

At the Ford Forestry Center, a new Technician program for diesel mechanics was initiated in 1973. Moreover, to continue its service to the woods industry, the Center held a series of saw filer and lumber grading programs. The woods industry was also served by a continuation of contracts for C.F.I. analysis, while the re-vegetation of iron and copper tailings basins was continued.

At the Institute of Wood Research, the first phase in the development of a continuous press system for the production of structural particle board was completed. All the machinery is on hand to begin producing board for strength tests. Initiation of Phase II will begin shortly. Work in the development of nestable pallets utilizing wood waste was also carried forward and a number of other contracts were undertaken.

Your School of Forestry and Wood Products continues to function as a dynamic entity where sights are set high and the desire to excel characterizes teachers and researchers alike. Growth and achievement have not dimmed the atmosphere of youthful enthusiasm without which true excellence is unobtainable.

Eric Bourdo
Occasionally there is need to refresh our thoughts on the magic words we live by and these comments highlight one of the key words—WORK. When we first think on the word we envision toil, strain, physical labor and the exertion related to these activities. Seldom do we think on the benefits one secures as a direct or indirect result of work that has been successfully completed. It is not work alone, but the spin-off that often exceeds the direct value of work, that is so important to the man. Recognized or not, one of our human needs is a sense of achievement—winning through competitiveness in games, sports, politics, business. There is personal pleasure in achievement—the real pleasure of showing our ear-to-ear smile or possessing a light and happy heart, but the joy of achievement does not always have to stem from besting an opponent. It may come through sheer satisfaction of a workmanlike job or a skillful accomplishment of craftsmanship.

Many of our alumni recall our janitor when forestry was housed in the old Hubbell School building on the west end of the campus. Every student and every faculty member soon learned that Oskar Groitzsch, who tended our building, was the best janitor at Michigan Tech. Despite a physical handicap (he lost one leg in an earlier mining accident), Oskar maintained a degree of cleanliness for Hubbell School that was unknown among any of the more modern buildings on campus. The sweat on his brow and the gleam in his eye told of dedication to his job. He was proud of performing his work and shared joy and enduring satisfaction in this achievement. Oskar was a happy man!

We often confuse the word WORK with exerting physical energy; bodily effort. But work applies just as properly to mental effort required to make or do something, to design some purposeful activity or to create a new principle or theory. Often, using our minds wisely may save physical work. Indeed, saving labor is one reason managers seek out persons with sound judgement, those who use their minds in an orderly manner with practical applications foremost in their thoughts.

One of our goals in forestry education at Michigan Tech is to cause our students to use and develop their minds for the wise use and development of the nation’s natural renewable resources. To accomplish this, it is imperative that our faculty develop a progressive series of work experiences designed to improve the mind, body and social awareness of our young people. Our mental capacity, like the athlete’s capacity, is improved only by proper use and exercise of our thought processes. Too, as in athletic competition one’s mind does not perform well unless the study, exercise, or activity is given wise direction and tempered performance standards. Work of both the mind and body are essential to overcoming the challenges of life. Remember, a kite rises against the wind. It must face the competition; never can it share the luxury of drifting with the currents.

Starting either mental or physical work is interesting. Before work begins there has to be stimulus. Enthusiasm is often that catalyst and without stimulus, work may never occur. Here, Francis Galton’s expression nicely describes this influence in real life—“Well washed and well combed domestic pets often grow dull—they miss the stimulus of fleas.” It is only when there is enthusiasm stirring that there is bound to be work and resulting accomplishment. Work is the theme, but spirit and enthusiasm are the ingredients so essential to spark and inspire the start and success of work.

Gene Hesterberg
CHARLES E. H. HEIN
Lecturer

DR. MARTIN F. JURGENSEN
Assistant Professor
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M.S. Syracuse University
Ph.D. North Carolina State University

DR. RICHARD CROWTER
Professor
B.S. Iowa State Univ.
M.S. Iowa State Univ.
Ph.D. Univ. of Mich.

DR. NORMAN F. SLOAN
Associate Professor
M.S. Univ. of Wisconsin
Ph.D. Univ. of Wisconsin

DR. MICHAEL S. COFFMAN
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DR. BERNARD C. H. SUN
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M.S. Univ. of British Columbia
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DR. ERIC A. BOURDO, JR.
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JAMES METEER
Ford Forestry Center
Professor
B.S.F. Univ. of Michigan
M.S.F. Univ. of Michigan

DENNIS A. BARIL
Forestry Aide
NEWS OF THE DEPARTMENT OF FORESTRY

Forestry education at Michigan Tech received another strong vote of confidence in October, 1973, when the Society of American Foresters renewed its accreditation of the Department and the University for a 10-year period. This is the highest accreditation rating given by the S.A.F.

Enrollment has continued to climb, as the Forestry Department now dominates in undergraduate enrollment at Michigan Tech. Total student numbers in forestry amounted to 557 during the fall quarter, a gain of 26 students over the preceding fall quarter. Forestry now accounts for more than 10 percent of the total enrollment at Michigan Tech, and is the largest individual major on campus.

Important additions of equipment were obtained for the forestry teaching and research programs during the year. These include several electronic, multi-function calculators which are equivalent to small computers, and equipment valued at $23,000, for pulp and paper processing and testing. The Department also received a grant of $2,000 from the Dow Chemical Company.

A new teaching position was authorized, beginning in the fall of 1974. It will be filled for a two-year period by Mr. Kim Illies, whose specialization is in computer applications and statistical analysis in forestry. He recently received the M. S. degree from Oregon State University.

A new educational program in wood and fiber utilization has been approved, to begin in the fall of 1975. Dr. B. C. Sun will head this program. It is hoped that another faculty member in this area will be obtained soon. The program will offer options in Wood Utilization, Forest Product Industries, and Pulp and Paper Science.

The 1973-74 school year has been a busy one for Tech's forestry faculty. In addition to their teaching duties, most of the faculty members have engaged in research, or have published papers or presented research results at meetings.

Dr. Martin Jurgensen reported on his work in mine waste reclamation, at a meeting of the American Society of Agronomy at Las Vegas, Nevada, last November. He began work on a study of the effects of logging residue removal in Douglas-fir and western larch forests of Montana, during the summer of 1974. This will be a five-year project, in cooperation with the U. S. Forest Service.

Dr. Sun is participating in a research project, in cooperation with Dr. L. M. Julien of the Chemistry Department, for development of an improved process for producing wood pulp. This method gives promise of yielding higher quality pulp and less residue than are obtained by use of current methods.

Dr. Norman Sloan is continuing his study of mortality affecting white pelicans in the Chase Lake National Wildlife Refuge, North Dakota, and his investigation of bird predation of forest insects following logging, in jack pine forests. He also continues to serve as editor of the Bird Banding News, and attended the annual meeting of the Inland Bird Banding Association at Duluth, Minn., in September, 1973. He also participated in the Western Larch Casebearers Workshop at Bellington, Wash., in January, 1974. Drs. Sloan and Jurgensen engaged in a study of forest fertilization for control of jack pine budworm, during the summer of 1974.

Prof. H. M. Steinhiib and Mr. Charles E. Hein have taken a leading role in development of a program for the education of land surveyors. They attended a meeting for this purpose at Troy, Mich., last February. In May, 1973, Prof. Steinhiib authored an article, "Harvesting Logging Residue from a Selectively Cut Northern Hardwood Stand," which was printed in the Northern Logger and Timber Producer. He continues his research in weight and handling of northern hardwoods trees, under contract with the U. S. Forest Service.

Dr. Douglas Frederick participated in a study of vegetation and deer habitat, conducted by the Michigan Department of Natural Resources, during the fall of 1973. He traveled to the Forest Products Laboratory at Madison, Wis., and the North Central Forest Experiment Station, St. Paul, Minn., to discuss pathology research.

Dr. Michael Coffman has continued his research of northern hardwood forests at the Huron Mountain Club in Marquette County, and conducted a study of snow characteristics in Keweenaw County, this year.

Dr. Fred Stormer and Dr. Norman Sloan were active in the establishment of a student chapter of the Wildlife Society at Michigan Tech. Dr. Stormer accompanied three forestry students to attend the Fourth Annual Central Students' Wildlife Conclave, held at Iowa State University, Ames, in March, 1974.

Dr. C. R. Crowther attended the annual meeting of the Michigan Academy of Science, Arts and Letters at East Lansing, in March. He presented a paper, "Forest Campground User Attributes as Determinants of Misbehavior." He was named Wisconsin-Michigan Section coordinator for the Recreation Working Group, Society of American Foresters.

Prof. James Meteer was appointed to the national Working Group for Systems Analysis of the Society of American Foresters, and will serve as representative for the Wisconsin-Michigan Section of the Society.

Dr. Lawrence Rakestraw received the Theodore Bledgen Award, presented by the Forest History Society, for the most outstanding article on forest history in 1972. The article, "Conservation Historiography: An Assessment," appeared in the Pacific Historical Review in August, 1972.
GARY L. WILLIS
Monroe, Ohio
Thesis: Composition, Structure, and
Dynamics of Climax Stands of Eastern
Hemlock and Sugar Maple in the Huron
Mountains, Michigan.

MICHAEL E. KERTTU
Pelkie, Michigan
Thesis: Aging Techniques for the
Common Raven.
MICHAEL R. GRAHAM
Royal Oak, Michigan

DANIEL L. GRIT
Wyoming, Michigan

MICHAEL W. HARNOIS
Detroit, Michigan

LAWRENCE J. HOFFMAN
Southgate, Michigan

BRADLEY R. HOMEIER
National Mine, Michigan

DONALD R. HOPPE
Shawano, Wisconsin
MICHAEL J. IRISH
Laona, Wisconsin

DAVID A. KENSY
Allen Park, Michigan

JOSEPH C. LAMACCHIA
Dewitt, Michigan

LAWRENCE J. MAC DONALD
Laurium, Michigan

ELIZABETH C. MC FARLAND
Jackson, Michigan

STEVEN MANIACI
Gladstone, Michigan
ROBERT E. MEILLER
Washington, D.C.

KENNETH L. OHLROGGE
Pigeon, Michigan

ERIC S. MOORE
Green Bay, Wisconsin

DENNIS C. OJA
Ironwood, Michigan

CRAIG M. MORRIS
Sioux City, Iowa

STUART A. OTTO
Houghton, Michigan
GEORGE E. PEARSON II
Lewiston, New York

DENNIS K. POLZIEN
Gladwin, Michigan

DAVID J. POQUETTE
Kingsford, Michigan

DUANE A. PURO
Houghton, Michigan

ROBIN J. REED
Drayton Plains, Michigan

CHERYL J. REEDER
Detroit, Michigan

JOSEPH C. ROZICH
Eagle River, Wisconsin

DONALD ROZJABEK
Westwood, New Jersey

WALTER J. SAARANEN
Houghton, Michigan
RAYMOND A. SEASONS
St. Clair Shores, Michigan

NORMAN C. SPIESS
Eagle River, Wisconsin

MICHAEL S. STRAIN
Harvard, Illinois

JOHN L. SUNDERLAND
Hancock, Michigan

VERNA M. TRIPPEL
Mishawaka, Indiana

DALE M. WOLYNIAK
Livonia, Michigan

SENIORS NOT PICTURED

CLARENCE R. BARTOSZ
STEVEN A. BASL
DOUGLAS R. BOOSE
DAVID C. CAIN
DONALD C. CLOSE
JOHN C. CLOUTIER
ROBERT S. COMSTOCK
ANDREW C. DE PUYDT
EDWARD V. DRAGUNAS
BRIAN J. ELOSCHUK
FRANK D. FARTHING
DANIEL O. HEISLER
WILLIAM A. HENNIGAN
STANLEY R. JOHNS
DENNETH A. KLOEPFER
DALE R. KONIECZKA

MICHAEL F. KORRER
GERALD L. LEE
DAVID W. MAC ARTHUR
WILLIAM H. MC CONNELL
GLENN D. MROZ
RICHARD M. MURLEY
MICHAEL J. ROBINSON
GLEN R. SACHTELEN
THEODORE L. SCHILTZ
LORNE A. STAMLER
WAYNE A. TAPPON
LARRY J. THROOP
LAURA S. WILLIS
GRAHAM C. WISE
BRIAN M. WOOD
FRANK E. ZUMPF

STEPHEN E. YANCHO
Flint, Michigan
Michigan Tech's Forestry Technician program, under the direction of the Department of Applied Technology graduated thirty-four technicians this spring. The many laboratory oriented courses and a close student-instructor contact allows time to dwell into the practical aspects and applications of forestry which has put our graduates in good demand on the job market. The program which is located at Alberta, turns out some top notch technicians who have started out in careers with many of the leading private companies as well as State and Federal agencies.

Some practical experience.

FOREST TECHNICIAN GRADUATES


This is a log!
The Michigan Tech Forester Celebrates Its Silver Anniversary

Twenty-five years ago, production of a new publication began at Michigan Tech. The *Michigan Tech Forester* made its debut in 1950, under the auspices of the Forestry Club and Department of Forestry, as a chronicle and emissary of Michigan Tech Forestry.

Volume I of the *Forester* proved to be the first of a series of annual publications which have continued without interruption and with increasing stature to the present day. This year the *Forester* looks back on its quarter-century of life with pride and confidence gained through this achievement of dedication and creativity. We salute, also, the founders of this Yearbook and all of the students, staff members and other benefactors whose devotion and support have contributed to its continuing success.

*The Forester Staff hard at work on the Forester in 1961. Have times changed!*
Forestry at Michigan Tech was in its fifteenth year when preparation of the first volume was undertaken. Professor U. J. Noblet, Head of the Department, served as the Yearbook advisor, and Ivan Kronberg was editor-in-chief. The Forestry Club, under the direction of Chief Forester Clyde Cundy, was the sponsoring organization as it has remained to the present time.

The year 1950 was a busy but trying time for Michigan Tech Forestry. The nation became embroiled in the Korean War during that year, and many Tech forestry students were veterans of World War II who had resumed their educations and careers following their release from the armed forces. One of the many outstanding groups of students to gain their forestry education at Michigan Tech, the student body included, as members of the *Forester* staff, Associate Editor Clyde Cundy, Business Manager Jack Noblet, Circulation Manager Carl Ackermann, Photography Editor Robert Bourdow, and Cartoonist Mac Frimodig.

The 1950 Yearbook consisted of 52 pages, measuring 5 1/4 by 6 1/4 inches. This format continued virtually unchanged for the next ten years, although the number of pages increased to 56 by 1960. Then, in 1961, the size was increased to the present larger page.

For Volume II, Dr. Gene Hesterberg served as faculty advisor. Gene continued in this capacity until 1957, when Prof. Richard Crowther became the advisor. Dick has continued as advisor to the present time, with the exception of the year he was away on educational leave. During that period, 1965-66, Professors Bob Sajdak and Roswell Miller took over the reins as faculty advisors to the Yearbook.

During its early years, the *Forester* was distributed free of charge to all Forestry Club members and alumni. The cost was underwritten by the Forestry Club, Department of Forestry, and through the regular support of the College Relations (now Communications Services) office of Michigan Tech, as well as the backing of advertisers.

Each year, several hundred copies were printed for the use of the College Relations office and the Admissions office in publicity and student-contact programs. This practice has been continued, although during recent years most distribution for public-relations purposes has been handled by the Department of Forestry and the Dean of Forestry and Wood Products.

By 1961, however, the cost of producing and distributing the *Forester* had increased substantially, and it became necessary to make a change. It was decided that a
subscription charge must be initiated, and, to make the book more attractive, it should be enlarged and revised to include a greater number of pictures. These changes, in turn, required the conversion from the usual letterpress printing to the offset process. However, the Book Concern of Hancock, which had been the Yearbook's printer, could not provide this service. Thus, it became necessary to contract with another publisher for printing arrangements.

The 1960-1961 year, then, marked a major turning point in the publication's history. Changes included a larger page size, offset printing, many more photographs, a subscription charge, and the first solicitation of subscriptions from students and alumni. The printing job was assigned to the Walsworth Publishing Company of Marceline, Mo., a major producer of high school and college yearbooks. Volume XII, consisting of 36 pages, thus emerged as the first issue under the expanded format. John Franzen, editor, and Dick Giebner, circulation manager, merit high praise for their efforts to improve and strengthen the Yearbook during this period.

The following year, the subscription price for the Forester became a part of the Forestry Club membership dues,
entitling all club members to receive a copy without further charge.

Its financial stability thus established, the Forester has continued its growth in size, scope and quality.

In 1968, the publisher again was changed, this time to the Taylor Publishing Company of Dallas, Texas. The Forester was Taylor-made through the 1970 edition. Then, for the 1971 issue, the Book Concern resumed its publication of the Yearbook. This change came about as a result of the acquisition of offset printing facilities by the Hancock printers, and the cooperative pricing policy of its president, Mr. Matt Laitala. In spite of rapidly inflating costs, Mr. Laitala has consistently held the line in printing charges and has made possible the continued production of high-quality books at a minimum cost to the Forester. Sincere thanks to Mr. Laitala are in order for this helpful policy.
The title term is used to describe solid wood substance that has been fractioned mechanically or chemically into a fragmented fiber form and then reprocessed into a specific solid wood form such as particleboard. The Institute of Wood Research is engaged in extensive research and development in the field of reconstituted wood products.

Wood, in its conventional solid lumber form, will always be in demand because of its intrinsically good properties and esthetic appearance. There are many more things that primary wood can become such as paper and fiber board products with which we are all familiar. However, research and development during the past twenty-five years, using wood as the basic raw material, has demonstrated that wood in its primary form can be reconstituted, so to speak, into other usable product forms. Specific examples of this are the structural particleboard and molded wood particle pallet projects well under way in the IWR Pilot Plant.

STRUCTURAL PARTICLEBOARD

The structural particleboard has as its objective the production of construction grade building panels with the same end-use capability as coniferous, structural plywoods, produced on the west coast and more recently in the southern pine areas. More interestingly, this structural particleboard will be made with the wood resource indigenous to the Upper Great Lakes area. A very significant factor in the development project is that a totally new concept of continuous press production will be employed. The panels thus produced, will be of the specific length and width required thereby eliminating cutting to size to achieve the exact modules required, which is necessary when using the currently available stock panel sizes.

MOLDED WOOD PARTICLE PALLETT

Molded, nestable, wood particle pallets are now produced in two commercial operations in Europe. The IWR has under development a similar pallet except the manufacturing system will be simplified to reduce the capital investment required.

The significance of this development relates to the difference between the conventional dense hardwood pallet and the molded pallet. The currently used dense hardwood, four-way entry, reusable pallet (40" x 48") may weigh 80 to 90 pounds. These pallets are about 5-1/2 inches high, and one can stack about 16 high inside a transport trailer. The nestable, molded, wood particle pallet of the same size, weighs 35 to 45 pounds (depending upon the wood species used), and 56 of these may be stacked under the same transport trailer roof. Thus, the transportation cost per molded pallet is very much lower than the typical dense hardwood pallet. Other plus factors for the molded pallet are that it is easier to handle, and requires little or no maintenance and repair, as do the typical hardwood pallets.

A very important factor in the molded pallet development work at IWR is that mill and forest residues have been used as the basic raw material. Therefore, these presently unused residues can provide the basis for a new wood using industry.
The Ford Forestry Center is one of four branches in the Research Division at Michigan Technological University. It is a facility with a dual purpose; research and education in forestry. The Center is located in Baraga County, 40 miles south of the main campus. Immediately accessible to the Center is a 4,100 acre forest composed of old growth northern hardwood and the pine land forests of the Baraga plains. Forest research at the Ford Forestry Center is able to begin with seedlings and continue through to a marketable product from the sawmill. The research program at the Ford Forestry Center has developed into three main areas of study; forest management, application of automatic data processing to large volumes of forest inventory data and forest productivity.

Over eighty silvicultural and forest management studies are in progress. These studies involve regeneration of jack pine, effects of thinning on jack pine, old growth northern hardwood silviculture (selective logging with the primary aim to upgrade the quality and productivity of the forest), management of small woodlots typical of millions of acres of privately owned land in Michigan, and lumber grade recovery at the sawmill to name a few.

In order for the forest manager to maintain control over the operation of a forest to maximize its growth and financial return, large volumes of inventory data must be kept. Therefore, another continuing research program at the Ford Forestry Center is the application of automatic data processing to forest management. Programs have been developed to compress what would take months of hand calculation to just a number of days on high speed computers. This kind of study is an important bridge for the forest landowner and his ability to secure quick and reliable answers from field inventory data.

The American society is a demanding society for wood products such as paper, furniture, buildings and synthetic fabrics. Although the forest is a renewable resource, the demand for products manufactured from wood fiber is ever increasing. Research at the Ford Forestry Center is also centered on forest-site productivity. Studies in progress involve the determination of which soils have the best potential productivity for growing trees, economics of hardwood tree fertilization, and growth-yield studies of pine plantation compared to native pine on similar soils.

Research at the Ford Forestry Center also extends beyond the confines of the 4,100 acre forest. Numerous industrial forests have contracted the Center for automatic data processing of continuous forest inventory data. The Center has been actively engaged in sponsored research on vegetative stabilization of iron and copper mine waste, forest land use planning and technical consultation with state and private land managers concerned with forest management.

Under the direction of Dr. Bourdo, Dean, School of Forestry, the Ford Forestry Center has an active and viable forest research program. The entire staff extends a cordial welcome to all interested groups or individuals to view firsthand the many projects and activities at the Ford Forestry Center.
The research at the Forest Engineering Laboratory for the past few years has focused on the development of an economical method of removing bark after chipping. A promising bark removal system has been developed which consists of steaming, compression and mechanical attrition of the unbarked chips. During this past year two highlights occurred concerning this development. First of all, a U.S. Public Patent entitled "Process for removing bark from wood chips" has been granted to the FEL. Secondly, a preliminary design of a pilot plant to evaluate this process on a continuous basis has been accepted by the pulp and paper industry. Due to the technical success and economic implications of this bark removal process, the American Pulpwood Association is now in the process of canvassing all pulp and paper companies for funds to construct and operate this pilot plant for two years. Several companies have already pledged capital for this purpose.

A scale model of the proposed plant is seen in the accompanying photograph. The plant consists of three major sections:

1. An input section where the material arriving at the facility is unloaded and readied for processing.
2. The bark removal section where the rough chips are processed.
3. An output section where the pilot plant output and the refuse are handled and disposed of.

The input section is designed to receive either unbarked roundwood or rough chips produced at a remote site. The roundwood will be chipped and conveyed through a pneumatic pipeline to a storage bin which serves as the plant infeed. Chips received from remote sites are unloaded from vans and fed into the infeed storage bin through the pilot plant chipper screen.

The equipment which makes up the bark removal process and which are noted in the photograph in the following order are:

1. Continuous steamer to pretreat the chips with low pressure steam.
2. Compression debarker which removes bark by adherence to the compression rolls.
3. Three-deck rotary type screen which removes the bark fines and concentrates the residual bark into the smaller screen fractions.
4. Ball-type attrition mill which will process one or two of the smaller screen fractions.
5. Single deck rotary screen which will remove the fragmented bark from the attrition mill output.

Clean chips are conveyed to the output section of the plant by a chip flight conveyor from the two segregating screens. A pneumatic blower loads the chips into vans for delivery to their ultimate user. The bark flight conveyor carries the reject bark from the compression debarker and the bark fines from the two screens to an open bin where it is periodically trucked away.

The proposed pilot plant is designed to process 3 cords per hour of rough chips. It will be used to evaluate the continuous operation of the process for a number of species and also to provide estimates on the development and operating costs for production-size bark removal plants.
NEW DIRECTOR OF THE IWR NAMED

Dr. Anders E. Lund, Director of the Institute of Wood Research

Dr. Anders E. Lund became Director of the Institute of Wood Research on April 1, 1974, succeeding Dr. Hereford Garland who stepped down from that position last year.

Dr. Lund has wide experience in industry, forestry education and research. Prior to coming to Michigan Tech, he was a consultant to the forest products industry in research and development, products and marketing. From 1967 to 1973, he was a member of the faculty at Texas A. and M. University and Head of the Texas Forest Products Laboratory, technical and administrative management. Previously, he was a faculty member at Clemson University and had industrial experience with the Koppers Company, Timber Engineering Company and U. S. Forest Products Laboratory.

The new IWR Director holds membership in numerous scientific, scholarly and technical societies, and has received many honors and awards. He is a Fellow of the Institute of Wood Science and is listed in the Dictionary of International Biography, American Men of Science, Leaders of American Science and Personalities of the South. He holds patents in the United States, Canada, France, Mexico and Belgium.

A past General Chairman of the Forest Products Research Society, Dr. Lund also is Chairman of the Research Committee, American Wood Preservers Association, and has been named to several other posts in research societies. He has authored many publications based on his research.

Dr. Lund is a 1955 graduate of Colorado State University, holding a B. S. Degree in Forest Management and Utilization. He holds the M. F. Degree in Wood Technology and the D. F. Degree in Wood Science from Duke University. He served for three years on active duty with the U. S. Navy, and four years in the Naval Reserve.

Dr. Lund brings a strong background of education and experience to the task of directing the advance of wood research at Michigan Tech.
Dr. Lawrence Rakestraw was presented the Theodore C. Blegen Award, at the annual meeting of the Forest History Society on June 24, 1973. The meeting was held at Santa Cruz, Calif. This award, named in honor of one of the founders of the Forest History Society, is given annually to the person who has contributed the most outstanding article on forest history.

The article authored by Dr. Rakestraw, "Conservation Historiography: An Assessment," appeared in the August, 1972, issue of the Pacific Historical Review. George A. Garratt, president of the Forest History Society, made the presentation of the award.

The newest recipients of the annual scholarship award for forestry students at Tech by the Michigan-Wisconsin Timber Producers Association are Donald Hoppe (left), a senior from Shawano, Wis., and Daniel Belling (center), a senior from Cheyenne, Wyo. Shown with them is Dr. Hesterburg, head of the Dept. of Forestry. This is the sixth year that the Association's board of directors has provided scholarship funds for MTU forestry students.
ACTIVITIES

LAKE SUPERIOR

KEWEENAW BAY

MICHIGAN TECH

Forester

1958
The 1973-74 Forestry Club continued in its pursuit of being recognized as one of the most well-known and active organizations on campus. A good showing for Winter Carnival and intramurals helped to make the campus more aware of our existence. The fine second place finish at the Midwestern Foresters Conclave showed the other Big Ten schools our enthusiasm and spirit.

This year our much outdated constitution was rewritten to better serve the club. Work was also continued on the Otter River cabin rejuvenation project. An annual Red Pine lumbering day was initiated for fun, experience, and profit. Another record income also resulted from the expended Rifle Raffle. Although some traditional activities were a victim of the changed schedule and weather, most other events had plenty of active club participation.

Our fellow club members from the Ford Forestry Center became very involved in the club activities this past year. The so-called “Alberta gang” was a dedicated and hard-working bunch of competitive souls who became an important and welcome part of the club.

Club officers experienced quite a turnover. Ann was elected to handle the secretarial duties after Jay Federocko resigned in January. Chief Forester Bob has temporarily left school, so I assumed his duties for the remainder of the year. Mike served his second term of office as treasurer.

The strong club spirit evident this year once again illustrated that the fellowship and activities of the Forestry Club are a rewarding experience to all.

- Dale Zschoche
Acting Chief Forester

Let's not tell Dale about the next meeting.
Bob Mayer - Chief Forester

Mike Burkett (foreground) - Treasurer


Ann Goodman - Secretary

OFFICERS FOR 1974-75

Keith Richmond - Chief Forester
Ken Klump - Assistant Chief Forester
Rod Dykehouse - Assistant Chief Forester (Alberta)
Lenny Almquist - Secretary

Dale Zschoche - Acting Chief Forester
THE 1974
MICHIGAN TECH
"FORESTER"

Editor-in Chief: Catherine Riley
Business Manager: Tim Foss
Photo Editors: Dave Engleman, Dan Dolata
Advertising: Verna Trippel, Scott Hales
Production: Carol Buzzard, Ann Leach, Dave Gundy,
George Teachman, Bill Akker
Photographer: John Ball
Advisor: Dr. C. Richard Crowther

TOP L-R: Dan Dolata, Dave Engleman, Bill Akker, Scott
Hales, George Teachman, Dave Gundy, Tim Foss, Ann
Leach, Cath Riley, Carol Buzzard, Richard Crowther.

Did someone say smile?—Verna

Life is one big pork chop—Tim

Hope this works—Dave

George, how many times do I have to explain!—ed.
A rare moment—the staff working!

Oh no!—Carol

How is it Ann?

What cute dimples you have George.

Another exciting staff meeting—Dan

That's what I think of that idea—Dave

It is the aim of the "Forester" to reflect on and record the many activities of the Forestry Club and news of the Forestry Department. It was not an easy task to do especially when most of the experienced staff graduated in the middle of the year, but we learned what had to be done and worked together to do it. This is the twenty-fifth edition of the "Forester" and we are proud to have been part of it.

Things were hard at times and deadlines always came up too fast. I want to thank all of the staff, club members and faculty for all of their help. This book cannot be done by one person alone. I hope that they are as proud of this book as I am.

-Cath

Thanks to:

Jack Landon—Front Cover
Cath Riley—Back Cover
The Alberta Gang

Ford Forestry Center, 40 miles south of the main campus at Alberta, is affectionately referred to as "home" by MTU students enrolled in the Department of Applied Technology's Forest Technology program. Although F.F.C. lacks many of the modern conveniences taken for granted by Houghton-based students, the location and setting are perfect for turning human resources into well-trained, top-of-the-line forest technicians.

Graduates of the program find careers in both public and private employment. A graduate may become involved in forest administration, management, utilization, or research. Or he may find that the general nature of his science-oriented curriculum and his business and management training have prepared him for employment in many diverse occupations.

Students who wish to take an active role in an organization directly associated with their major educational field, have an opportunity to join the Forestry Club. Club members, along with their advisor, Mr. Ralph Duffek, have participated in all projects undertaken by their brother club on the main campus. The club produced a healthy and enthusiastic turnout at such momentous occasions as Big Brother Day, the Otter River clean-up and roofing party, the Atlantic Mine pulping operation, the rifle raffle, the venison "boo-yaw", and the inter-club hockey game at Dee Stadium. The 1973 Conclave Team was largely made up of "Alberta Animals", the nickname technician members have come to enjoy from their sometimes less enthusiastic cohorts at Houghton.

Winter Carnival, 1974, was a source of enjoyment for all club members as their statue was awarded third place in Class Three.
SUMMER CAMP 1973

Once again last summer, after the normal people around this campus had gone home, a small band of us poor fools remained behind to revive once again the ancient tradition of summer camp. As we trucked out into the dense overstocked stand of mosquitos, through which we could dimly perceive trees and mirages of wood nymphs, we said to ourselves “This is like going to Chassel by way of Los Angeles.” How could we forget that glorious ride out to good old section 27 each morning with “Safeside Sajdak” at the helm, during which the roof of the bus and many a skull got to know each other pretty well. Once we arrived at our destination, we were immediately met by a welcoming committee of mosquitos who seemed to consider “Cutter” as sort of an appetizer and, with our tally sheets turning to pulp and our bug dope dissolving our compasses, we headed boldly out into the Tag Alder thicket. To this day, no one really knows what timber types are found on section 27, but it is rumored that Norm has an accurate type map of the area which he reads late at night.

Surveying also held many fond memories, including spending 34 hours calculating sun shots just to prove we were in the Forestry building parking lot, and getting to know the exact location of every gopher hole between St. Al’s and the Ice Arena. It also became apparent that it was utterly impossible to do an accurate topo map in the rinse cycle, but the abundance of serviceberries and blueberries saved us from complete disaster.

But on top of all those fun and games, we learned that one great rule that all twigs live by: when in doubt, burn it over and plant potatoes! Ah well, Say La Vee.

Tim Foss
Hurry and pitch those horseshoes before Chuck gets back.

Lemme tell you guys about these wood nymphs I ran into—J. Miersone and friends.

Is this what they mean by overrun?

Now boys, this is one of those things we’ve been telling you about.

Wonder where my transit went.
BIG BROTHER DAY

This year Big Brother Day had a great turnout in spite of the cold misty weather.

The events that were the most popular were the match-split, the two-man buck and the tobacco spit. The match-split served to distinguish between the newcomers and the “experienced” oldcomers. The Alberta boys took first place in the two-man buck while the TECH four-year men took first place in a little impromptu tobacco spit contest.

The Big Sisters muscled in on a previously all male part of the competition—log rolling. I am proud to announce that even though the girls gave it a good try the men were able to overcome their surprise and win rolling away.

As always—according to ancient tradition, our president, Robert Mayer, received the time honored traditional dunking in the frigid waters of the Otter River.

George Teachman
C'mon Whitney, get to work—Pat

Let 'er rip Ken

Concentration!

Pretty fair spit!

I think that was my finger!

Wonder if they'll be ready for Conclave—Ros
This year was one of the best in a long time for the Forestry Club Conclave team. We took the largest team ever—24 team members and three advisors. One reason for this was that this was the first year that the guys from Alberta had participated. We departed Thursday night in one of Tech's luxurious schoolbuses and after picking up the Alberta contingent, settled down for the 900-mile ride to Camp Zoe, Missouri. The University of Missouri was the host school for the conclave this year. On the way we were entertained by such sights as the Chicago skyline at 3:00 a.m., the Saint Louis Gateway Arch, and Ed Larson's imitation of a baboon. After a good night's sleep in the barracks at Camp Zoe, we headed into the competition ready to show everyone else how to do it. Throughout the day we placed well in most all of the 12 events, with Mike Burkett taking first in the match split, Dennis Oja a first in the bolt throw, Ken Ohlrogge a first in the tobacco spit, Keith Richmond a second in chopping, and the team of Rod Dykehouse, Marty Siminick, Bob James, and Bill Curtis taking second in the pulp toss. This is not to mention the numerous thirds and fourths the team also took. After the competition was all over, Tech ended up second overall, with Missouri taking first, Minnesota taking third, and Purdue taking fourth. That evening everybody trucked down to the river for the ice cream social. Even though some of the guys had a few too many dishes, the fireworks helped to keep the bodies warm until we began piling back on the bus at 1:00 in the morning. The first part of the return trip was marked by pit stops every few feet, but after the effect of the ice cream wore off, we settled down to another luxurious 22-hour ride home. The team also won the award for the longest distance traveled to reach the conclave. That second place sure felt good!
That sawdust sure tastes terrible
—Ken Barlage

Happy Birthday, Marty!

Hey, this is no time for a walk!—John Sunderland, Dan Spino

“Hot Lips” Lempe in action

Talk about butt swell!—Rod, Kevin, Ralph

Happy Birthday, Marty!
This year, once again the Tech Forestry Club entered class III competition in Winter Carnival, with the theme “Sub-Zero Heros”, and ended up placing fourth overall in the class. Our snow statue this year featured Smokey the Bear and had the caption “Help Prevent Bears - Light Fires.” Although we began work a bit late, things progressed smoothly and we finished on time without even having to stay up all night working on it; although the last night’s work was done in a driving blizzard and sometimes you couldn’t tell the workers from the statue. After the judging the next morning, our statue came in fourth place (in a field of 11) to our mild surprise. Alberta’s statue, entitled “Dog · Gone · It”, did even better, taking third place in class III. The club also entered most of the special events, tying for second in snowshoeing and placing second in broomball and participated in skating, skiing and dogsled.

Hey guys, “the speed limit is only 15 mph!”
The making of a tree.

Late night touch-ups.

SUB-ZERO

HERO!

Come on Bill, Smokey's not that funny looking.

This tent guaranteed to fifty degrees below zero, but not above freezing!
Visitors to the forestry building early in February might have been surprised to see the professors slicing celery, trimming meat, peeling potatoes and other chores not usually associated with forestry. What they were doing was preparing for the annual Forestry Club wild game Booyaw stew. And then one cold winter night most club members gathered at St. Al's to be served the dinner, which this year actually contained wild game in addition to beef.

This year the conclave team was honored for their fine second place finish at the Midwestern Foresters Conclave Competition. Slides and movies were shown and many stories told of both the trip to Missouri and competition in the events.
RIFLE RAFFLE

The Rifle Raffle this year got off to a very slow start but with a lot of determination of a few individuals it turned out to be a big success. A good sized profit was made. This year as in the past, the Mich. Tech Homecoming Queen drew the lucky winners. The first place prize was a Winchester Rifle. The rest of the prizes included everything needed for a backpacker: food, tent, sleeping bag, snowshoes and a buck knife.

HOMECOMING QUEEN CANDIDATES

The Forestry Club was well represented in the contest for the 1973 Homecoming Queen. Two girls who were also foresters, were sponsored by other organizations to compete. They were Melanie Reinhold, a freshman in Forestry and Linda Cheek, a sophomore in Forestry. Linda was crowned the Queen at the Homecoming football game. Foresters do more than chop down trees. Some are even pretty!
RED PINE THINNING PROJECT

A more profitable Red Pine stand is being developed by the School of Forestry in cooperation with the Copper Range Company. Students have been thinning a 20 year old Red Pine plantation which in 30 to 40 years should provide monetary returns three to four times greater than a comparable hardwood stand.

In 1972, Dr. Michael Coffman, MTU professor of silviculture, established forty 1/10 acre plots in the 900 acre William Paine LaCroix Red Pine Plantation, west of Atlantic Mine.

Students gained experience in marking for thinning, and learned to recognize types of trees to be included in thinning. Trees thinned were injured, diseased, crooked, had multiple boles, or were damaged by frost. Students also learned proper cutting practices and correct handling of equipment. A successful timber harvest includes the logging of accident-free man hours as well as trees. Students logged 640 accident-free man hours in the field.

Students recorded growth response in each plot and the economics of the stand. The thinning operations have been very profitable. The wood was sold for pulpwood at $20 per cord. Since the students provided labor, this was almost pure profit. The returns were applied to student lab fees, transportation costs, and thinning equipment. The Forestry Club and individual students are now conducting separate thinning operations in further profitable ventures.

Copper Range Company also shared in the thinning profits, but, more importantly, has gained an estimated 100% increase in diameter growth in the plots thinned in 1972.

Phyllis Dorman

Hope it doesn’t fall this way!

This is the way we chop a tree...
It won't hurt much little tree—Joan

Chainsaw? Who needs a chainsaw?—Mike Coffman

Hope I don't choke it—Cheryl Beader

A few nips here and few nips there...

That looks too much like work!—Dennis Baril

D.E.A.R. M.O.M....

Sure that's where ya want it?
This Spring Field Day was rather unique; it snowed! There was a great turnout of about ten hard core club members, well after all, it was held on the morning after a Saturday night. Part of the morning was spent sitting in the Forestry Building waiting for someone to drive out to the camp. Keith Richmond was finally convinced that Spring Field Day would be more fun than sitting at home with his wife watching television.

The day is normally spent trying some of the various Conclave events. Due to the limited number of people, firewood was stacked until the rain began to turn to snow. Everyone headed inside and ate enough Booyaw to feed about fifty people. Nothing much else could be done so we headed back to the truck and then home.

Upon reaching home base, there was a hell-ava snowball fight and a good time was had by all?
This past year was a busy one at Otter River Camp. In the fall a log rolling course was set up over on the island for use in Conclave practices and on the Field Days. It also proved to be a good physical conditioning course. In addition to the new course, new shingles were laid on the cabin roof—approximately 2700 sq. ft. of them. Plagued with bad weather and a busy fall schedule, the work wasn't completed until the tenth week of classes. The new shingles are part of the plan to renovate the whole roof on the building. The initial construction began in the Spring of 1973 with the roof in the main room being replaced. Plans are now in process for the construction of rafters in the two wings. Work on this part will probably begin next fall.

On April 27, a few souls who braved the snow went out to the camp for the spring clean-up. The cabin was cleaned up, the northwest bedroom was cleared of all the lumber that was stored in there, a load of hardwood slabs which was brought from Alberta for firewood was stacked, a few minor repairs were made and an overall clean-up of the area was done.

The cabin is available for any Forestry Club members to use. Its location is ideal for hunting, fishing, canoeing, camping and for just enjoying the out-of-doors.

Keith Richmond

If at first you don't pound the nail in straight, try again.

Am I just supposed to stand here with it?—John

Did he say smile?
The Xi Sigma Pi Fraternity was founded at the University of Washington in 1908. The Alpha Eta Chapter at Michigan Tech was chartered in 1970. In that span of sixty-two years, twenty-seven chapters in twenty-five states were chartered—all dedicated to securing and maintaining a high standard of scholarship in Forestry education; working for the improvement of the Forestry profession and promoting a fraternal spirit among those engaged in activities related to the forest. We who are members of the Alpha Eta Chapter, firmly believe in these objectives and ourselves.

The year 1973-74 was a different one for the fraternity. In terms of membership, we presently have fifty-one undergraduates, three graduate students and nineteen faculty in the chapter. During the year two initiations were held—one during the winter quarter and one during the spring quarter. Thirty-two new members were initiated into the fraternity. Each member was chosen for his high academic standards, professional interest, leadership and attitude.

The highlight of each year is the symposium in the spring. The topic of each symposium is related to the field of forestry. Experienced individuals from around the country are invited to speak. A banquet is also served and the response to each symposium has been extremely gratifying. Due to the lack of time and a computer foul-up, the symposium for this spring had to be cancelled. So that this will not happen in the future, plans are already underway for next spring's symposium. In March, a proposal to use the funds in the National account of the fraternity for a scholarship fund to be awarded each year on a regional basis was approved.

In May, elections were held for the 1974-75 year. The results were:

- Forester — Dave Bergman
- Associate Forester — Andy Kovalchik
- Fiscal Agent — Mike Bergstrom

There’s an old saying that goes, “You never stand so tall as when you stoop to help another.” Each of us has our ups and downs and it is when we are down that we appreciate help from others. I believe the forestry students here at Michigan Tech do stand tall and it is because of this that the coming year for Xi Sigma Pi will be the best yet.

David M. Bergman
Forester
MTU FORESTER QUIZ

The greatest hazard encountered in summer camp is (A) Tag Alder (Alnus rugosa), (B) Yooper mosquitos (Biteus muchus), (C) Stormin’ Norman (Rantinus Ravenus).

Bob Sajdak was seen trying to buy a one-way ticket to Afghanistan on the first day of Spring term because (A) He wanted to participate in the international streakers convention, (B) he likes Afghanianian cigars, (C) he saw his new dendrology class.

Who are these strange people and what were they doing?

The greatest physical exertion one encounters as a forestry student is (A) trying to make it through the Tag Alder, (B) skidding logs in Silviculture lab, (C) trying to take notes in one of Fast Fred’s lectures.

Mike Coffman has been called (A) the terror of powerline road, (B) a lot of things we can’t print, (C) very little, since they disconnected his phone.

The term “C’vest la vie” really means (A) Diameter at Breast Height, (B) By type and by forty, (C) you’ve done something wrong again.

The “Yellow Streak” is (A) the department bus, (B) what runs down many a summer-camper’s back as the black flies descend (C) Bernie doing his thing.

“Strip Cruising” is (A) a method of timber measurement, (B) streaking thru the woods looking for wood nymphs, (C) driving down Sheldon Avenue looking for action.

True or False:
Part of a twig’s favorite pastime?

A winning tobacco spit?
Hope I hit the nail.

Hey you guys. Did I tell ya the one about . . .

Why don't you lend a hand instead of taking pictures all day?

C'mon. Keep working.

I think there's one in here somewhere!
The Forestry Club was again active in the intramural program sponsored by the Athletic Department here at Tech. Teams were fielded in bowling, basketball, volleyball and ice hockey. Although our athletic prowess wasn't quite up to professional standards, we did things our way and had a lot of fun doing it.
BOWLING PARTY

An enjoyable afternoon of bowling and fun was had by the many participants of this year's bowling party held at the Cooper Bowl in Ripley. Despite differing levels of ability and experience, competition was keen in the battle for class points. After warming up dormant muscles and a few "instant lessons" for rookie bowlers, action got underway.

The team of professors, the perennial champions, again had some pretty good bowlers and enjoyed many beer frames, to their ultimate downfall. Flamboyancy was exhibited by the senior team, while the Juniors bowled consistently strong series. The Sophomores were the largest team present but "Skinny Power" sagged in the end. The Freshman team had to be stocked with recruits from the other classes but had a respectable showing. High individual game goes to Sophomore Barry Lempe who rolled a 199, while Junior Ed Shibler had the best series with a 545. At the days end the final scores were tallied showing the following results:

<table>
<thead>
<tr>
<th>Class</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juniors</td>
<td>2303</td>
</tr>
<tr>
<td>Sophomores</td>
<td>2143</td>
</tr>
<tr>
<td>Profs</td>
<td>2097</td>
</tr>
<tr>
<td>Seniors</td>
<td>2010</td>
</tr>
<tr>
<td>Freshman</td>
<td>1998</td>
</tr>
</tbody>
</table>

Now Barb, I think I can remember how to add
—Ann

To them it's a beer frame every frame!

The Prize Trophy
A student chapter of The Wildlife Society was organized during the winter of 1974, at Michigan Tech. The Wildlife Society is an international organization representing professionals in the field of wildlife conservation. Composed mostly of forestry students, the chapter has as its advisors Dr. Norman Sloan and Dr. Fred Stormer.

Student officers are Jeff Adams, president; Keith Richmond, president-elect, and Bob Aho, secretary-treasurer. Kim Davidson and David Shaver were elected to the chapter's executive board.

In March, Dr. Stormer accompanied three students to attend the Fourth Annual Central Students' Wildlife Conclave at Iowa State University, Ames. Making this trip were Jeff Adams, Robin Reed and Joe Rozich.

In expanding the instructional program in wildlife, the Department of Forestry added four new courses which will be offered during the 1974-75 academic year and in future years. This brings to seven the number of undergraduate wildlife courses now offered in the Department. Two graduate-level courses in wildlife also are taught by faculty members in forestry.
FORESTRY CLUB
DEPARTMENT OF FORESTRY
MICHIGAN COLLEGE OF MINING & TECHNOLOGY
HOUGHTON, MICHIGAN
VOLUME I
1940

EVERETT J. HENTLEY, 20 Floyd Circle, Silver Bay, MN 55614. Land Engr., Reserve Mining Co.


CARL V. DAVISON, Jr., 1213 E. Fifth Ave., Houghton, MI 49931. Ass't Prof., N.U. SV.


1941


RAY G. BAHMAN, Rte. 3, Box 231, Petoskey, MI 49770. Cons. For., Self Employed.


CHARLES W. HOLLUM, 1033 Neufeld, Green Bay, WI 54304. Owner, C. W. Hollum & Assoc.


1942


ALLEN H. HEKLER, 1101 Dossas, Negaunee, MI 49866. Mining Engr., Cleveland-Climax Iron Co.


RALPH G. SAISONER, 811 15th St. S., Wisconsin Rapids, WI 54494. Mgr., Timbersland, Consolidated Papers, Inc.

GLENN L. WEINBERG, 5125 Brentwood Place, Chicago, IL 60657. Ass't to Pres., Royal Continental Box Co.

1943


ALLEN H. DOULLER, 6730 Fort Rd., Rte. 3, Birch Run, MI 48415. Staff For., Mich. D.R.P.

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GEORGE I. JENTURSEN, 19430 Rock St., Roseville, MI 48066.

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1944

DR. LEO F. LAYVAK, 6120 Sylvan Dr., Columbus, OH 29204. U.S. Army.

1946

THOMAS J. LOERING, 317 Gold S.V., Albuquerque, NM 87101. For., U.S.F.S.

ELMER H. WHETZ, 315 N. Jefferson, Grand Ledge, MI 48837.

1947

ADRIAN J. DEBRIND, Rte. 6, Hayward, WI 54842. U. of Wis., Brooks Bldg.

HAROLD J. GRAVES, 1001 Pierce St., Wakefield, MI 49494.

REUBEN J. LAVERICK, 933 Memorial Dr., Marquette, MI 61455. Ill. Div. of For.

WILLIAM W. LIEGMANN, 6450 Traverse Rd., Cincinnati, OH 45243. Salesman, Monsanto Co.

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TAYLOR R. TAYLOR, Dana Bldg. Apt. 812, 592 Battery St., San Francisco, CA 94111. Sr. Area Civil Engr., U.S. Dept. of Housing & U.D.

ROBERT R. VIAL, P.O. Box 172, Chassell, MI 49916.

HARRY N. WADDE, R.R. 3, Box 166, Fair Fair, MI 49078. Project Engr., Kalamazoo Conveyor Co.

1948

EDNAR F. ANDERSON, 2161 Lincoln St., Eugene, OR 97405. Area Sales Mgr., Monsanto Co.


EDWARD J. FAJER, 118 S. Jefferson, Verona, WI 53593. Wis. D.R.P.

DONALD J. FISHER, Box 192, Bergland, MI 49910.

1949


HARRY D. NAZALE, Box 96, South Range, MI 49963. Teach, Cripple Creek Victor Sch.

ARTHUR K. RYAN, 8601 142nd St. W., Tacoma, WA 98466. Woods Mgr., Wyerhauser Co.


WILLIAM A. TODD, 424 E. Arch St., Marquette, MI 49855. Pres., Longyear Realty Corp.

1950


WILLIAM E. BALD, 3662 Settten Woods Dr., Chambly, GA 30241. For., U.S.F.S.

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