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**Frontispiece**  
Canoeing in the quiet waters of Toben Harbor,  
Isle Royal National Park
Michigan Tech Forester Staff

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Foreword
By Dick Giebner, Editor

This issue of the Michigan Tech Forester presents the results of the tireless efforts which the members of the Michigan Tech Forestry Club have put forth this past year.

The Forestry Club has been a powerful tool in adding stature to the Forestry profession as viewed by our fellow Engineering students. This has been made possible by the reputation built by the club in the past. During the past year the members have done much in continuing and improving this fine reputation.

Also this year we pay special tribute to Prof. U. J. Noblet, in recognition of his 25 years as Head of the Forestry Department at Michigan Tech. All of us who have studied Forestry at Michigan Tech owe a great deal to this outstanding leader in the field of professional forestry education.
Dedication

The staff of the 1962 "Forester" takes pleasure in dedicating this edition to Dr. Robert T. Brown, who, for the past eleven years, has taught and maintained the interest of students in Botany and Ecology.

After obtaining his Ph. D. in Ecology from the University of Wisconsin in 1951, Dr. Brown joined the Forestry Department faculty as an instructor. Since that time his many outstanding achievements have earned him his present position of Associate Professor.

Dr. Brown's knowledge and leadership are also widely recognized outside of the college circle. The National Science Foundation selected him to participate in two summer institutes:

1958 - Institute of Marine Biology, Coos Bay, Oregon.
1959 - Institute of Desert Biology, Tempe, Arizona.

He was also the Associate Director and lecturer for the National Science Foundation sponsored Summer Institute at Michigan Tech to study the vegetation of the Lake Superior Region.

To the disappointment of many, Dr. Brown will leave the Forestry staff to become a member of the future Department of Biological Sciences. This dedication is our way of saying "Thank You" for all that "Doc" has given to the Forestry Department.
Department of Forestry
at Michigan Tech

The Department of Forestry at Michigan Tech, located at Houghton, Michigan, consists of a four-year curriculum leading to the Bachelor of Science degree. In addition, a two-year forestry program, including the freshman and sophomore years, is maintained at the Sault Branch, Sault Ste. Marie, Michigan.

A state-supported college, Michigan Tech is accredited by the North Central Association of Colleges and Secondary Schools. Michigan Tech also is one of 28 forestry schools in the United States accredited by the Society of American Foresters.

The location of Michigan Tech, in the heart of the heavily timbered Upper Peninsula of Michigan, provides an ideal situation for a forestry school. A great variety of northern forest types are utilized in outdoor laboratory work, and many types of public and private timberland ownerships are represented within a short distance of the campus. These lands, under scientific timber management, provide excellent outdoor laboratories for forestry course work.

Various timber-using industries, including sawmills, pulp and paper, fiberboard, flooring and miscellaneous industries, also are utilized in the instructional program.

Students also have opportunity to observe the research programs of three forest research facilities. These include the two forest research agencies of Michigan Tech, the Ford Forestry Center and the Forest Products Research Division, as well as the Upper Peninsula Branch of the Lake States Forest Experiment Station, maintained by the U.S. Forest Service near Marquette, Michigan. In addition, a new Forest Service research center, the Houghton Forest Engineering Laboratory, is being established at Michigan Tech.

The college administers a large acreage of timber lands which are valuable for instructional and research purposes.

The Forestry curriculum provides the student with a strong background in professional forestry, based upon a solid foundation of the basic sciences such as mathematics, chemistry and biology, and enriched by course work in the humanities and social sciences.

The Forestry Department maintains a 10-week summer program in forestry field work and surveying, which students complete between the sophomore and junior years. This summer camp is operated at the Ford Forestry Center, approximately 40 miles southeast of Houghton.

A popular facility administered by the Forestry Department, available to forestry students, is the Otter River Camp, located 25 miles south of Houghton. This facility, including a large rustic cabin at the edge of the picturesque Otter River, together with 20 acres of timberland, serves as a center for special student events and for weekend outings.

In addition to offering a well-rounded education, the Forestry Department sponsors an active student program through the Forestry Club, with which all forestry undergraduates are encouraged to affiliate. Many other extracurricular activities, including use of the college-operated ski area and golf course, also are available to the student at Michigan Tech.

Another advantage highly valued by many forestry students is enjoyment of the excellent hunting and fishing opportunities found within a few miles of the Michigan Tech campus. Including big and small game hunting, and stream and lake fishing, these opportunities provide many memorable occasions for the outdoor enthusiast at Michigan Tech.
More than 100 forestry alumni, their wives, and friends of the Forestry Department attended the alumni reunion marking the 25th anniversary of Michigan Tech’s Forestry Department, August 3 and 4, 1961. Held concurrently with the annual college alumni reunion, the forestry observance featured a banquet at the Douglass House in Houghton, and an informal outing at the Otter River Camp.

Presentation of a plaque to Prof. U. J. Noblet, in recognition of his quarter-century of service as head of forestry education at Michigan Tech, was a highlight of the banquet program. Also on the agenda were musical entertainment and a stimulating series of suggestions on ways to aid the Department in its program, given by representative alumni.

Clyde Cundy, ’50, performed an outstanding job as chairman of the reunion committee. Nearly all of the forestry graduating classes from 1940 to 1960 were represented. Honors for the highest percentage representation went to the Class of 1951, with 10 of 23 members present, for a mark of 43.5 per cent. Other high-ranking classes were the Class of ’41, 40 per cent; Class of ’48, 30 per cent; Class of ’50, 24.3 per cent; and Class of ’57, 24.2 per cent.


*Accompanied by wife

Department Developments

The past year has been a truly memorable one for the Department of Forestry at Michigan Tech. Most significant, perhaps, was observance of the Department’s twenty-fifth anniversary during August.

A new member of the Forestry faculty has been added this year. He is Dr. Kenneth Kraft, who is handling course work in Zoology, Wildlife Management, and Botany. He holds the B.S. degree in Biology from Bemidji State College, Minnesota; the M.S. degree in Biology from North Dakota University, and the Ph.D. degree in Entomology from the University of Minnesota. Dr. Kraft formerly taught at the Duluth Branch of the University of Minnesota, at Morehead State College, Minnesota, and at Bemidji State College. Dr. Kraft replaces Prof. John Veenstra, who now is teaching at Delta College, Bay City, Michigan.

A new degree-granting department to be established this summer, the Department of Biological Science, will have a considerable effect on the Forestry Department. Two members of the faculty, Dr. Robert Brown and Dr. Kenneth Kraft, will be transferred from the Forestry Department to the new Biology Department. Along with these men will go instruction of botany, zoology and allied subjects. The two faculty positions thus vacated are to be filled by the addition of two qualified foresters.

Before another Forester goes to press, the official name of our college may be changed. Although we cannot predict with certainty, the most likely future name now seems to be "Michigan College of Science and Technology." This new name has been recommended by the college Board of Control, upon the advice of the college administration. Revision of the college’s name can become official only through action by the State Legislature or revision of the State Constitution.

A significant step in the field of forest research has been taken at Michigan Tech with the establishment of the Houghton Forest Engineering Laboratory by the U.S. Forest Service. This new branch of the Lake States Forest Experiment Station will cooperate closely with the two forest research agencies of Michigan Tech and with the Forestry Department.

Enrollment in Forestry has remained at a high level, with fall, 1961, enrollment totalling 175. The incoming freshman class numbered 38 students during the fall term.
VERNON W. JOHNSON
B.S., M.S.
Professor of Forestry
Vern has taught in the department since 1939.

C. RICHARD CROWTHER
B.S., M.S.
Assistant Professor
Dick has taught 7 years in the forestry department.

ROBERT T. BROWN
B.S., M.S., Ph.D.
Associate Professor
This is "Doc's" 11th year with the forestry staff.

GENE A. HESTERBERG
B.S., M.S., Ph.D.
Associate Professor
Gene has been teaching for 14 years at Tech.

HELMUTH STEINHILB
B.S., M.S.
Associate Professor
"Hammer" has taught 17 years in the Forestry Department.

KENNETH KRAFT
B.S., M.S., Ph.D.
Assistant Professor
This has been Ken's first year of teaching in the department.
Forestry

Henry J. Akervall
Port Arthur, Ontario

Robert G. Artis
Manitowoc, Wisconsin

Alan J. Babboni
Chicago, Illinois

Robert F. Brisson
Menominee, Michigan

William E. Morden
Manistique, Michigan

David B. Newman
Ramsey, Michigan

Christopher Nilsen
Ann Arbor, Michigan

William Randall
Mio, Michigan

Richard H. Giebner
Chicago, Illinois

Ralph C. Hewett
Milwaukee, Wisconsin

Norman L. Johnson
Quinesec, Michigan

Peter A. Kalik
Chippewa Falls, Wisconsin

Laddie M. Strejc
Lombard, Illinois

Martin L. Sunr
South Haven, Michigan

Jerry F. Theller
Tomahawk, Wisconsin

Paul A. Theisen
Warren, Michigan

Peter B. Wasanen
Gary, Indiana

Of
Graduates

Arthur V. Carpenter
Ashland, Wisconsin

Thomas R. Centner
Milwaukee, Wisconsin

Ralph E. Duddles
Grand Blanc, Michigan

John M. Franzen
Berlin, Wisconsin

Russell J. Weisinger
Marenisco, Michigan

Walter F. Kuntze
Green Bay, Wisconsin

Ronald D. Lewis
Tecumseh, Michigan

Daniel A. Matero
Houghton, Michigan

David R. Karling
Wakefield, Michigan

Jerome T. Wojack
Detroit, Michigan

Richard A. Woodward
Plattsburg, New York

Tim C. Zanke
Sheboygan, Wisconsin

Eugene S. Robbins
Tucson, Arizona

Daniel I. Schroeder
Manitowoc, Wisconsin

Kenneth D. Shalda
Maple City, Michigan

David V. Spaeath
Wisconsin Rapids, Wisconsin

NOT SHOWN

Jack G. Boldt
Sheboygan Falls, Wisconsin

Charles O. Troxel
Sheboygan, Wisconsin

1962
The 1961-62 year opened up somewhat differently but pleasantly for the Forestry Club. With the help of Prof. Noble we acquired the job of putting in a cedar hedge on the Jewish Cemetery. The hedge was about 200 feet long and required approximately 200 cedar trees which were dug, free of charge, from land. It was a pleasant job because it netted the club a welcome $400.00.

The noon luncheon was continued this year and the club had a chance to hear some fine speakers from around this general area.

The club meetings were also supplemented by speakers both from outside speakers and from members of the club itself. This is something you fellows who are going west, or anywhere for that matter, could plan on. A few slides and a talk on your particular area can be very informative and help some person to decide where he would like to work.

We set aside a little of the club tradition this year in the form of our annual Lumber Jack Ball. In its place was put a more formal type of dance called Autumn Leaves. A good twelve piece band and an autumn background set the scene for a large crowd and a good time. This type of dance seems to be much more successful than the Lumber Jack Ball and will probably be used again.

The club really put out a good effort in this year's Winter Carnival but we had a little trouble with the judges. Popular opinion and the judge's opinions didn't agree on the snow statue.

The boys in the skits and special events came through in extra fine style. This year was the closest we've ever come to winning a Class A Special Events trophy. Only 1/2 point shy.

One of the reasons for this good showing was the several social parties which were held during carnival period. This is something which I feel should be continued because it does raise the morale and interest of the members.

The biggest event of the year is yet to come in the form of the 9th Annual Midwestern Forestry Conclave. We will be the host club this year and it promises to be one of the biggest events that the Forestry Club has ever planned. The plans have been one year in the making and I'm sure it will be a conclave that these visiting schools will remember for a long time. It's unfortunate that the results of this conclave can't be printed in this annual but it occurs too late in the year.

With the same team that swept 1st place last year coming back, we have very high hopes of a repeat performance.

There are many people who I would like to and should thank at this time but it would take this entire annual to name them all. To the many members who put long hours into this annual, the conclave, sports, our dance, skits, special events, and the cold nights on the snow statue, my deepest thanks. You've made this a year which I will remember for a long while.

The Forestry Club took action this year to increase contacts with the Department's alumni by activating an Alumni Committee. This committee is under the chairmanship of the Assistant Chief Forester, as provided in the Club Constitution. It will work in cooperation with the Alumni Editor of the Forester and with the alumni to aid in improving contacts between the Club, Department, and forestry alumni.
Upperclassmen grumbled and freshmen scurried to the shelter of the cabin as the rain threatened to wash out the start of Otter River Camp activities. This was the first time in several years that rain threatened to dampen the Big Brother Day outing of Tech’s Forestry Club and everyone seemed to be at a loss as to what to do now.

The fire of the cabin’s main room, space heater took the chill out of the air and the fellows were soon clustered in small groups getting acquainted and telling tales of past hunts and fishing trips.

Not to be daunted by the rain, Professor Steinhilb set up a pistol range between the cabin porch and the outdoor wood pile. The popping of .22 cartridges echoed and added more atmosphere to the surroundings. It looked like the day wouldn’t be a total loss after all.

The rain suddenly stopped and scatter-gun enthusiasts scrambled for the trap range. A display of good shooting resulted and it looked like some of Michigan’s partridge would live their lives in jeopardy. The last clay bird was busted and before plans to obtain additional targets could be made rain started to fall again.

Disappointment in the ending of the trap shoot was quickly suppressed when head chef, Dr. Hesterberg, gave the “come and get it” call. There was a mad rush for the kitchen and many good hot-dogs met their end. Rain it did, but everyone had to admit a good time was had by all.

The camp committee began plans for future work to be done on the cabin. Only minor repairs will be undertaken before spring. Other winter activities consist of plans for a big rabbit hunt in the area surrounding the camp. The cabin will serve as strategy headquarters and a place to eat for other hunters.

For those foresters interested in fishing, the spring trout season will find Otter River Camp available and ready for use. The Otter River affords wonderful fishing and size and numbers will be left to the lucky fisherman or to the imagination. Spring also marks the start of a major repair and cleanup operation.
The Midwest Forester's Conclave held at Iowa State University on April 29, 1961, ended in victory for Michigan Tech as Tech Foresters scored a winning 32 points. The University of Michigan came in second with a score of 25 1/2 points, while Purdue placed third with 11 points. Iowa State, the University of Missouri, Michigan State, and the University of Minnesota were also entered in the various events.

Michigan Tech Foresters placed in all of the events except four, and the individual scores were as follows:

1. Two Man Bucking - Jim Gosz and Norm Johnson  
   1st place and 5 points

2. Log Chopping - Norm Johnson  
   2nd place and 3 points

3. Chain Throwing - Steve Robbins  
   1st place and 5 points
   Floyd Roberts - 3rd place and 1 point

4. Match Splitting - Jim Gosz tied for 2nd place and 1 1/2 points

5. Dendrology - Jim Gosz - 2nd place and 3 points
   John Herbst tied for 3rd place and 1/2 point

6. Traverse - Tom Centner - 1st place and 5 points
   Dan Schroeder - 2nd place and 3 points

7. Tobacco Spitting - Tom Piehl - 1st place and 3 points
   Floyd Roberts - 2nd place and 2 points

Jim Gosz was Tech's high point man with an overall score of seven points. Norm Johnson, Tom Centner, and Steve Robbins were also among the high scorers in the Conclave.

Among the interesting experiences of this year's Conclave was a clever display of the art of "guestimation" by Tom Centner. Tom was entered in the Traverse event, and while in the process of completing the course, he ran into a fairly large ravine. Eyeing the open span carefully, he "guestimated" the distance to be about one and a half chains wide and ended up only 16 links from the correct finishing point. Tom walked away with a smile on his face and a first place for the Tech team. Purdue University had a rather unhappy experience when one of its traverse men misread a number and marched off into the distance on a 74 chain hike that should have been only 7.4 chains. After five hours and five crossings of the Des Moines River, the dejected Purdue forester returned to the Conclave with a very weary tale to tell.

Color, humor, and strong competition were the highlights of this year's meet and the Tech Foresters who participated in the events deserve our hearty congratulations for an outstanding performance.

We will be looking forward to the 1962 Midwest Forester's Conclave which will be held at Michigan Tech, and we will be trying to carry our victory into the forthcoming year.

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The 1962 Midwestern Foresters Conclave

by Eugene Robbins

This year's Midwest Forester's Conclave will be held May 4, 5, & 6th at the Michigan Tech, Ford Forestry Center, Alberta, Michigan. The Tech foresters will play host to a field of 6 other schools; Michigan State, U. of Michigan, U. of Minnesota, Iowa State, Purdue, and the newest member of the group, Missouri.

There is a feeling of tension growing among the members as the time approaches when the strength of last year's win will be tested to the fullest extent. With practically the same team turning out again this year, as last we are hoping for the best. Rumors of evil plans being set at other schools are occasionally heard even with the great distances lying between the schools. With this in mind we are looking forward to a thrilling weekend.

The enthusiasm is not just among the students, however, as Bert Koblet, who can still taste the sweet memories of last year's victory, has been formulating plans of his own. His foxy plans include renting a garage so our high powered two-man sawers, one-man buckers, and axe men can get an early start.

There will be much planning and work accomplished before the big weekend is over, but with the support of a very active forestry club we hope to make the 1962 Midwestern Forester's Conclave the best ever.
Homecoming
by John Franzen

With the approach of the homecoming game against Moorehead State on October 21, the Forestry Club again entered the float competition. Depicting a large green and yellow Moorehead dragon with his bandaged and splinted tail dragging on the pavement the foresters prophesied that, "Their Tails Will Be Dragon."

But due to the greater finesse of the frats in the field of float building the foresters failed to place in the stiff competition. This is no way was a detriment to willingness of all those who worked on our float however, as it was agreed that more improvement is shown each year in the Forestry Club's efforts. In this light a big hand goes to all those who worked on the dragon.

The evening of the football game proved to be a typical fall night in the Copper Country as the temperature hovered in the low thirties. But for three quarters the Huskies seemed not to mind the cold as they outplayed the Moorehead team. But as the game of football often goes, Moorehead came alive in the last period and scored the winning touchdown within only minutes to go, defeating the Huskies 19 to 16.

At least the dance was a greater success at the cafeteria-ballroom at Wadsworth Hall. Wadsworth Hall was a lot warmer than Hubbellfield!

Rifle Raffle

The annual Rifle Raffle and Buck were held again this past school year even though the traditional Lumber Jack Ball was set aside. As in previous years a 30-30 Winchester, a sleeping bag, and a $10 gift certificate made up the prizes. Due to the ending of the any deer season the first prize was upped to $20.

The winners of the raffle were: 1st. D.E. Wiedu, 2nd. Karl Koschnitzke, and 3rd. Rog Drongi. Al Caron's buck won him the $20 Buck Shoot prize.

The organization of the project was handled very well by Paul Theisen, Norm Johnson, Ron Lewis, and Bill Briggs.

Venison Boo-Yaw

Thanks again to Hammer's superior hunting skill we were able to have the annual Venison Boo-yaw as scheduled. Along with the venison from Hammer's kill Al Caron and John Gogin pitched in a share from their kill. To help us out even more Al Caron donated some meat from his bruin. The affair was held in the Union cafeteria again this year. After dinner a movie entitled "Life History and Ecology of Bob White Quail" was shown. Among the guests were Dean Kerekes and G. Mustafa Qureshi a student from India who has done some hunting in his homeland.

From the picture below it can be seen that a good time was had by all.
Tennis

Tennis, a new sport added to the list of intramural sports this fall term, started the slate of intramural activities this year. The league consisted of eleven teams competing in doubles only and playing double elimination. The Foresters took it hands down, undefeated in five sets, thereby earning twenty points toward the all-over intramural trophy.

The champs are that all around champ from Quinnesec, Norm "Swede" Johnson and the flashy racketeer from Green Bay, Walt "Satch" Kuntze.

En route to the championship, Walt and Norm first beat Sig Rho, 6-4, in their toughest match. They also walked over the Independents and twice defeated the Delta Sigs, before meeting the KD's in the finals, and taking them without much resistance.

Basketball

The Foresters had a relatively successful basketball season as we won 6 and lost 4; and advanced to the quarter-finals in the tournaments, before losing in overtime. The four defeats were all close games as we lost all by a combined total of 14 points. Up front, Dave Stuck, Pete Waisanen, and Norm Johnson, were the big rebounders and scorers. Dave was "the big gunner" as he averaged 16.6 points per game for 6 games. Pete was high total scorer with 117 points for 10 games, Dave was second with 100 points, and Norm was third with 87 points.

The two Dans, Dan Schroeder and Dan Matera, were the guards and Russ Weisinger was the so-called 6th man.

The Bench included Ralph Bond, Tom Williams, Dick Meyer, Ron Lewis, Ken Lathrop, Ralph Hewitt, Zack Phillips, and Mike Zuidema.

Wrestling

by Tom Centner

Our thanks to Mike Tanascu, Bob Brenn, and Ron Miltenberger, who sparked the 1962 I.M. wrestling team to a second place standing. Hours of grueling practice paid off when the chips were down! The opposition was quickly eliminated during the course of the two day event; that is most of the opposition. John Franzen and Tom Centner both ran into tough luck during the eliminations. Nevertheless, there is always another year with the prospect of first place.

<table>
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<tr>
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<td>Bob Brenn</td>
<td>1st</td>
</tr>
<tr>
<td>147#</td>
<td>Mike Tanascu</td>
<td>1st</td>
</tr>
<tr>
<td>157#</td>
<td>Tom Centner</td>
<td></td>
</tr>
<tr>
<td>177#</td>
<td>Ron Miltenberger</td>
<td>1st</td>
</tr>
<tr>
<td>Heavyweight</td>
<td>John Franzen</td>
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</tbody>
</table>
Hockey

by Tom Piehl Mgr.

With high hopes of a successful season the Foresters' hockey team began their ten game schedule last fall term in class A competition.

In their first game against the Kd's, one of the tougher "sexxtets" in the league, the score was tied at the end of regular playing time and the teams were forced into overtime play in which the KD's scored and won. That game seemed to 'break our backs' and the boys never did recover until the end of the season when two victories were chalked up. The team showed a lot of potential with some hard skaters and a couple of good defensemen. Ricky "Abie" Geiss again was the scoring leader this year and another repeater was "Charlie" McLean with the most penalties. High points of the season: Denny "Hoe" Hohlfeider scoring his first goal of the season--into our net, Bob "Skinny" Miller "lifting" the puck for a goal, and John "Goober" Gogin making four "saves" and allowing 6 goals!

With most of the "pucksters" returning next year, with the exception of only five seniors including our only experienced and capable goalie Bob Brisson and with the "expert" coaching, the Foresters ought to make a much better showing.

Varsity Athletes

This past year we have had twelve Forestry students competing in varsity athletics. They are as follows: SEATED: Left To Right, Fred Duddleston, cross-country track; Ralph Bonde, wrestling; Carl Gebhardt, wrestling; John Hermann, downhill skiing. STANDING: Buck Woodward, cross country skiing; Larry Abrahamson, cross country track; Jack Boldt, football; Charles Jones, basketball; Héry Akervall, hockey. NOT SHOWN: Jim Pirie, frosh hockey; George Hill, frosh hockey, and Oliver Hannula, cross country skiing and track.
Winter Carnival "1962"

by Mike Tanascu

It was a "Cold, Cold World" for the Michigan Tech Forestry Club this winter, but as always, the Foresters provided strong competition in the race for the 1962 Winter Carnival Trophy. ThetaTau Fraternity received the first place honors, while the Forestry Club came within a half point of the third place, Class A division.

Although the Forester's snow statue failed to place in the local judging, it was the only statue to be honored by a front page picture and feature in the Milwaukee Journal. This was a small reward for the men who spent many long hours working on a "winning statue."

Among the bright spots in this year's Winter Carnival activities was Miss Sue Schaffer, Forestry Club queen candidate. Miss Schaffer, a Junior at St. Joseph's School of Nursing, appeared on a Marquette television program while representing the Forestry Club and succeeded in brightening the overall scene of the Winter Carnival competition.

Another bright spot was the "South Side Story," a hilarious skit portraying the struggle for survival in the big city. Second place was awarded to the Foresters on the final evening of their performance.

It was a "Cold, Cold World" for the Foresters, but all in all, the tradition of Winter Carnival was faithfully carried into another year.

Stage Review

by Dale Staege

Our entry in the stage review, entitled South Side Story, was a take-off on the more famous stage production, West Side Story. The story centered around the kidnapping of two luscious beauties, Zebelda (Pete Waisanen) and Gertie (John Gogin). This nasty act was committed by "several members of the Tiger Lilly Organization," played by Jeff Floria, Tom Williams, and Roy Eiker, who took their orders from "Daddy-Chief" Mike Breitzman. They were in turn chased by a rather short-winded Officer Churchkey (Frank Ferris), squealed on by a maltreated stooly known as Wimpy (played by Dennis Hohlfelder), overtaken by a gang of "good guys"--the Sugar Jets (Mike Zuidema, Jim Hubbard, Bob "Moose" Brenn, and Tom "Aristoteles" Piehl), and brought to justice by the two raving beauties themselves, after which the two ever-present beatniks (Don De Genaro and Dale Staege) escorted the lovely ladies from the stage.

The show was mostly written and ably directed by Jerry Theiler, and the props were build and handled by John Franzen, both of whom, along with the cast, are to be congratulated for their fine work in taking a second place for the Foresters.

"Daddy-Chief" giving Officer Churchkey some orders while the rest of the Tiger Lilly Organization play "Jacks."

Two Forester Coeds, Gertie and Zebelda.
Snow Statue
by Al Caron

"From The East Came The Horde" was the title of this year's Winter Carnival snow statue. The scene was designed to portray the story of communist aggression and the western reaction of this aggression.

It can be said about this year's snow statue that it was better organized and required more man hours to construct than any statue ever built by the Forestry Club. Our only trouble is, we didn't win. But we had a lot of fun trying and I'm sure the socials were enjoyed by all.

With the disappointment of losing comes the hope of next year, and with the cooperation of the underclassmen, particularly the freshman class, our Club will continue to be one of the most active on campus.

Special Events
by Tom Centner

The Forester's fine showing in the special events caused much discomfort among the other trophy-bound organizations. Despite the bitter cold, the club teams came through with two first places and one second. Truly a credit to the Foresters!

The snowshoe team of Fred Duddleston, Dale Staege and Larry Abrahamson proved that stamina and skill are a perfect combination for victory. The team brought "home" the points and launched the club on its way to a second place in overall special events.

Forester superiority was demonstrated again, as the broomball team battled its way to the top spot. Dick Giebner's spectacular goal tending left nothing to be desired as the team made its sweep-Sigma Rho, Delta Sigma Phi, and finally Kappa Delta Psi. Another Forester first!

A gravel covered surface hampered the dog sled race. Nevertheless, musher Ken Lathrop drove the flashy "dogs" to a second place in the final special event of the carnival, and clinched a second place in the overall standings.

Every year the outlook looks brighter, and every year the results are better. A second place this year should lead to a ____ place next year!

The boys worked long into the night to put in a fine effort on an impressive statue.
Forestry Summer Camp 1962

by Jim Gosz

The summer of 1961 was a new experience in the lives of a certain 48 future foresters. During this summer, 10 weeks were spent learning the practical aspects of forestry and surveying taught to us very ably by the four man staff of Gene Hesterberg, "Hammer" Piehl, Vern Johnson, and Dick Crowther.

The session got into full swing on the first day and the first thing we were taught was pacing. Plenty of practice was available on the 1/2 mile course which saw many boys intently counting to themselves. Of course there were also fellows like Tom Piehl who had to count out loud which raised a few dirty looks from the boys who lost their count and had to start over. The final on pacing took place on a pleasant rainy day on the flat Baraga Plains with only the thick Jack Pine to disturb us, and it did.

Next on the agenda was traversing and there must have been quite a few puzzled tourists seeing Hwy 41 lined with fellows aiming little gadgets at trees and posts along the way.

During the next week the group was split up, half scaling logs and half typemaping and cruising. Any person could readily tell which group was which for the scalers were sunburnt and the cruisers were mosquito bitten. Section 13 must hold a dear position in the heart of Vern Johnson for we had it again this year. The swamp was just as deep and wet as last year but the mosquitoes increased substantially. Along with this, a new technique was developed this summer. In the swamp it was found that instead of counting splashes for paces, it was much more accurate to count breast strokes and divide by two.

The first portion of our training was climaxed by a week long final problem which heard many protests of his partners who complained of broken toes. The session got into full swing on the first day and the first thing we were taught was pacing. Plenty of practice was available on the 1/2 mile course which saw many boys intently counting to themselves. Of course there were also fellows like Tom Piehl who had to count out loud which raised a few dirty looks from the boys who lost their count and had to start over. The final on pacing took place on a pleasant rainy day on the flat Baraga Plains with only the thick Jack Pine to disturb us, and it did.

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Action in the broomball game during Winter Carnival.

Prof. & Mrs. U. J. Noblet with plaque Mr. Noblet received at the 25th alumni reunion, in recognition of his long and outstanding service to the department.

Camera Cruising 1961-62

Pete Waisanen taking a shot during an intramural basketball game.

Norm Johnson throwing the bolt in the conclave in Ames, Iowa.

Hammer with his 177-pound, 10 point buck.

Al Caron and his 312 pound bear.
On Poems and Forests

by Gene A. Hesterberg

So often we read a poem that creates a lasting impression, but we fail to learn more about the author. Old timers may recognize the forester's ballad that appears with this brief note, but few of them may know about H. Basil Wales, its author.

A native of Michigan and a graduate of Michigan State University, Mr. Wales entered the United States Forest Service at Albuquerque, New Mexico in 1910. In 1930 he became chief of the Timber Management section here in the north central region. At that time national forest lands in this region were largely cutover and burned-over and many thousands of acres were in need of planting to hasten their development to a productive forest again. Today, over 650,000 acres of these lands are growing tomorrow's timber and these tracts serve as pleasing testimony of the accomplishments of Mr. Wales' leadership. Approximately one billion trees were raised and planted in the establishment of these Lake States plantations. One of these tracts has been designated the H. Basil Wales Memorial Forest to recognize the pioneer work in reforestation of this man.

Mr. Wales passed away on Thursday, March 10, 1949, but the memorial forest tract on the Munising District of the Upper Michigan National Forest and, indeed, some of his philosophical poems still attract one's eye. Affectionately known as "Bas" by his many friends and associates, we publish this brief poem to recall yesteryear, and one of the earlier foresters who helped re-create Lake States forest from barren burns.

"An old hollow log may come into the mill
But the old hollow log's got some good in it still,
And a sawyer who's smart will find more in the same
Than a faller will see or a scaler will claim.
Yes, you never can tell what a sawlog'll cut
If you judge it alone by a look at the butt;
It may rot at the stump where it's close to the ground,
But a bit higher up may be thoroughly sound."

"So we ought to take men, when we see 'em log run;
There are very few men who are all No. 1.
Here's a fellah who ain't, I am here to admit,
And perhaps even you may be rottin' a bit.
But there's good in us all, as I often suspect,
And there's something in all not exactly select.
Yes, a log's like a man, and a sawyer who's smart
In an old rotten log find a little good heart."
The Pettibone Cary-Lift Story...

Progress

by Russell F. Carrier

Plant Manager, Baraga, Michigan

The Cary-Lift was invented as most inventions are, through a necessity for a new way to handle material. In the late 1940's, a machine was built to handle logs and lumber. After a few demonstrations, it was found that the machine could only raise and lower material. In order to handle logs and lumber properly, something else had to be added, which was "reach." This improved the machine's ability to stack logs and lumber.

In handling packages of lumber which had to be placed at the far side of a railroad flat car or flat bed truck, the Cary-Lift with reach incorporated was quite adequate. This feature was patented. It was not long, however, before it was found that the drivers did not always move into the right loading position, which resulted in staggering the ends of the logs or lumber being staggered. To correct this situation, some method of side shift had to be built into the unit. Springs were added along with hydraulic jacks on each side to shift the load laterally as much as six inches. With this, the principle of the Cary-Lift had been established. Through the past decade, improvements have been added, and smaller and larger units added, to meet the changes in the wood industry.

ABOVE: Our refined unit proudly displaying the reach feature. Note the hydraulic jack exposed just back of the front wheel to control the side shift so that the ends of the lumber can be piled directly over the package below it.

BELOW: From this point the Pettibone Cary-Lift was developed to meet the need of the pulp and paper industry. Here we have a Swivel Clam Cary-Lift unloading trucks, one cord per grapple.
The Cary-Lift can be adapted to the many special requests made by customers who are familiar with its action.

You may note that all the pictures you have viewed are for operations in the processing plants. To extend our line of equipment we developed the rubber tire unit to handle the raw material from the forest. To date we have developed four basic units, Master 4--8--12--25.

Briefly to cover the manufacturing history and the expansion of production program.

The first production of Cary-Lift started in a small shop, with seven (7) people employed. After the production of several units, a demonstration tour was mapped out, taking the Cary-Lift through most of the States and Canada. Production growth did not start for about two years, when trained sales people and concentrated demonstrations again went into the field. Orders were slow, but as people saw the many uses for the Cary-Lift, orders started coming in. At this point more people were trained, farmers and woods workers alike. Small shops were started by the trained personnel that originally assembled the first units. The fabrication of parts started in the area around the assembly plant. Originally, parts were made in the larger cities, Detroit and Chicago. Transportation and freight were a problem, and an effort was made to do all fabrication near the main assembly plant. Today, several years later, each move being to larger quarters for the main assembly plant and fabrication plants, some 250 people are employed.
The passage of each succeeding year records further development at The Ford Forestry Center as a growing-concern. Each year has seen expansion in the physical plant and increase in research. The year 1961 was no exception.

Most important from student point of view was the completion of dormitory #4, which for the first time permitted all students to be housed in quarters specially constructed for them. The four 12-man dormitories now built were exactly enough to provide quarters for the 48 students who attended summer school in 1961. Dormitory #4, like its three predecessors, is now beautifully panelled with wood produced at Alberta. Basswood, white pine, red pine, and jack pine lumber, were added to elm, ash, maple, and birch lumber to provide interior finish. A trip through the four dorms can virtually provide a quick course in wood identification.

But dormitory #4 is yet not enough, so the college Board of Control has authorized the construction of dormitory #5. The site has already been cleared for this building. Preparation of concrete forms is done and pre-cutting of lumber is well under way. Because the dormitory will be 25 x 60 feet in size as compared with the 25 x 46 feet of the other four buildings, it also will be more adaptable, part of it serving other purposes when not filled to its 20-student capacity.

Increased student load at Alberta also necessitated replacement of the heavily overloaded electrical service. A 2300 volt overhead line was run to the summer school area; and from it heavier cable was laid underground to the schools and to dormitory #4. Even so, it probably will be necessary next year to run a separate service to the kitchen to prevent voltage drop when all the electric stoves are in service.

The raising of "temporary" married student housing at Houghton proved a windfall for Alberta. Sufficient beds, dressers, and chairs were acquired from these buildings to meet any expected needs for summer school. All of this furniture has been reconditioned.

Dormitories do not represent the only new construction at Alberta. Also completed was a 20 x 112 foot metal pre-fab building, constructed from materials salvaged at the former Grand Marais Radar Station. This building was needed to provide storage for equipment and supplies which presently find scattered storage in garages, house basements, and even in the sawmill. A 20 x 32 foot section was adapted, however, to provide Prof. Don Yeadon with a shop in which to complete development of the log debarker on which he is working. This machine already is located in the shop.

Other construction saw completion of laboratory quarters in one of the houses and the adaptation of half of the office basement as a library.

As usual, research absorbed the major portion of the Center’s efforts. The most interesting project was a 20-minute movie, prepared under the direction of Dr. William Beaufait, on the use of prescribed fire in managing jack pine. The film was previewed at The Annual Meeting of the Society of American Foresters in Minneapolis and drew much favorable comment. In addition to professional groups who requested it, the film has been shown to Tech alumni in many parts of the country. This is quite appropriate, since The Michigan Tech Foundation provided the financial backing to produce the film.
The Center also published 3 technical bulletins in its current series, while five technical papers were presented covering research at Alberta. The Center's own staff is augmented by others, particularly during the summer months. Dr. Robert Brown conducted research at Alberta under special college grant. Two high school science teachers worked on research sponsored by The National Science Foundation. Finally, a Tech graduate student carried out a project in bio-physics research which the Center supported.

Forest management studies were continued. The fourth cut was made in the small woodlot and the jobber earned a surprisingly high net return of $4.10 per hour of time invested. On a broader scale, a 125-acre tract was subjected to light improvement and salvage cut. This too was profitable operation as an intermediate harvest in a "selectively" cut forest.

Nearly 150,000 board feet of logs were sawn in the Center's sawmill in conjunction with continuing lumber recovery studies. The mill also was used to flitch the third lot of Forest Service logs, all the field work for which is centered at Alberta. Two Forest Service employees are in residence at Alberta.

Nearly a month was spent by Soil Conservation Service personnel in very nearly completing soil survey work at Alberta. Detailed studies have been made at over 500 plots, with only 70 yet remaining. A report on Center activity for the Tech Forester must necessarily be very brief. However, even a report so brief as the above shows clearly the depth and variety of activity which takes place there. The forthcoming year should be equally productive.

Forest Products Research Division

Outdoor Storage of Hardwood Chips

by Leland W. Hooker, Associate Professor

In 1955, the Forest Products Research Division undertook a project aimed at the harvesting and utilization of hardwood logging residue material. It was found that for each thousand board feet of hardwood logs removed from the forests of the Upper Peninsula, there is left behind an average of 70 cubic feet of round wood in the form of tops, limbs, and tree damaged in logging.

After experiments had developed a feasible method of harvesting this residue material, the problem of what to do with it had to be faced. Because the cost of harvesting were relatively high, a high-value use for this material had to be found. It was decided that pulp-chips offered the best market. In order to satisfy the market, however, the bark had to be removed. Since the wide variation in sizes and shapes of the pieces in which logging residue is found, no reasonable possibility exists for removing the bark before chipping. This, then, focused our attention on the problem of segregating bark from chips.

Studies made in Eastern Canada on spontaneous combustion in chip piles, indicated that after some period of outdoor storage of hardwood chips, there occurred a "preferential decay" of the bark. If such decay of bark without serious decay of the wood could be induced, it would offer an economical means for segregating bark from chips, inasmuch as the bark could be simply screened out.

In an effort to duplicate this preferential decay, two piles of hard maple bark-chip mixture were made in each of the four seasons of the year, starting in January of 1958. One pile was 12 feet deep, and the others 6 feet deep. Each pile was instrumented with thermocouples and gas-extraction hoses. Each pair of piles was allowed to stand undisturbed for approximately 18 months, during which time daily temperature readings were taken at one-foot intervals in each pile, and periodic samples of chips were taken for examination. Gas samples were also taken from the interiors of the piles.

The attempt to produce preferential decay of the bark was unsuccessful. Temperature data and gas analysis indicated that small piles such as these were too thoroughly ventilated to permit the development of bark-rotting fungi in sufficient quantities to be effective.

We did learn that hard maple chips can safely be stored outdoors in our climate during the winter months, and on into the middle of the summer. During the latter part of the summer, however, conditions inside the pile are within the range of optimum growth of wood-destroying organisms, and danger of serious decay exists.

With the failure of outdoor piling to effect a segregation of bark from chips, our attention is now directed toward investigations of mechanical and/or chemical means for doing the job. The amount of hardwood logging residue going to waste in the country each year warrants intensive effort toward the solution of this problem.
Intensive management of large areas of hardwood forests in the Lake States and Northeast is a major problem. Progress in this field will have great influence on the future economy of these areas. Present harvesting methods and equipment, principally because of economic considerations, continue to delay the satisfactory management of these forests.

The extensive forest areas in the Lake States offer this area one of the greatest opportunities for increased development of a substantial and sustained economy. These great forests constitute a vast renewable resource upon which a stable and lasting economy can be developed. The principal assets of these forested areas are wood products and recreation. Both contribute substantially to the existing economy.

On a national scale, the timber industry and its wood production are a substantial segment of the economy. Wood makes up nearly 20 per cent of all industrial raw material consumed. The gross product value of all wood-based economic activities is estimated at about $29 billion annually—which is nearly 5 per cent of the gross national product. It is estimated that $1 billion is paid for the nearly 11 billion cubic feet of standing timber cut annually. The value is increased to $3 billion by the time this amount of wood is delivered to processing plants or concentration points. Wood-connected employment totals an estimated 3.4 million man-years annually. This is equivalent to about 5 per cent of the total national employment.

Forest recreation use has been increasing at an average rate of 10% a year over the last five years. The importance and extent of this use is recorded in the Outdoor Recreation Resource Review report. Although recreation use is not directly involved in our program, the effect of logging methods may have on recreation values must be evaluated and considered.

In September of last year, the U.S. Forest Service established an engineering research laboratory on the campus of Michigan Tech. This new laboratory is called the Houghton Forest Engineering Research Laboratory and is one of three such laboratories in the United States. The other two are located on the campuses of Montana State College at Bozeman, Montana, and Auburn University at Auburn, Alabama.

Our first research project is to define the present major problems concerned with adequate management of these resources. The findings of our problem analysis will be used as a basis for engineering research that will assist in the solving of these problems. Research in the field of equipment development for logging and lumber operations has been greatly neglected, and the resulting progress lags far behind that found in other industries. Because of this, the opportunity for productive research would appear to be especially good.

In the years since World War II, progress towards mechanization of agriculture has made impressive strides. Mechanization of forestry operations has not kept pace with other segments of agriculture. While it is true that progress has been made in many phases of forestry operations, in general, this progress lags far behind that found in other fields of agriculture. Larger and larger and more expensive machines have been developed for some phases of logging operations. Many of these new products have resulted in a decrease in production costs; but too often they have caused extensive damage to the land, reduced reproduction, and damaged the residual stand when selection cutting methods are used. The end result often shows progress in one phase of management with a corresponding setback in another phase. Research to mechanize logging operations must devise logging methods and equipment to provide the maximum benefits from an overall long-term land management viewpoint.

The possibilities of adapting equipment or methods not now used for logging to such use are being investigated by the Forest Service and others; however, much work is yet to be done. The use of the helicopter for transporting logs and full trees, pipe lines for chip transportation, and many other investigations are now underway. Some of the results could have a great effect on future logging methods.

Such new equipment as the Bushcombine and the Vit Feller Buncher (shown on this page) are examples of what are essentially revolutionary ideas for new logging equipment. These and many other innovations are necessary to provide adequate means for management of forest lands and to keep wood products competitive with other materials.
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