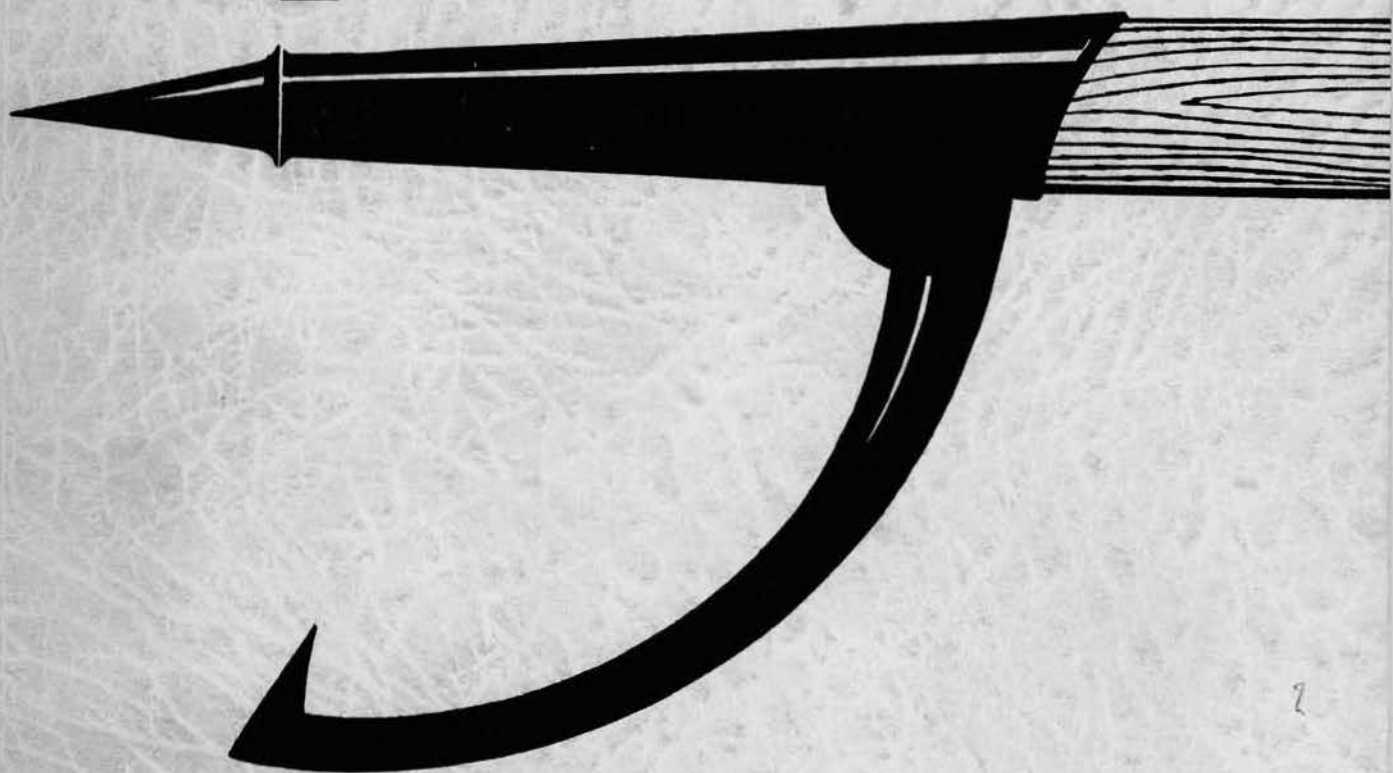


gopher peewee



NINETEEN HUNDRED FORTY - TWO



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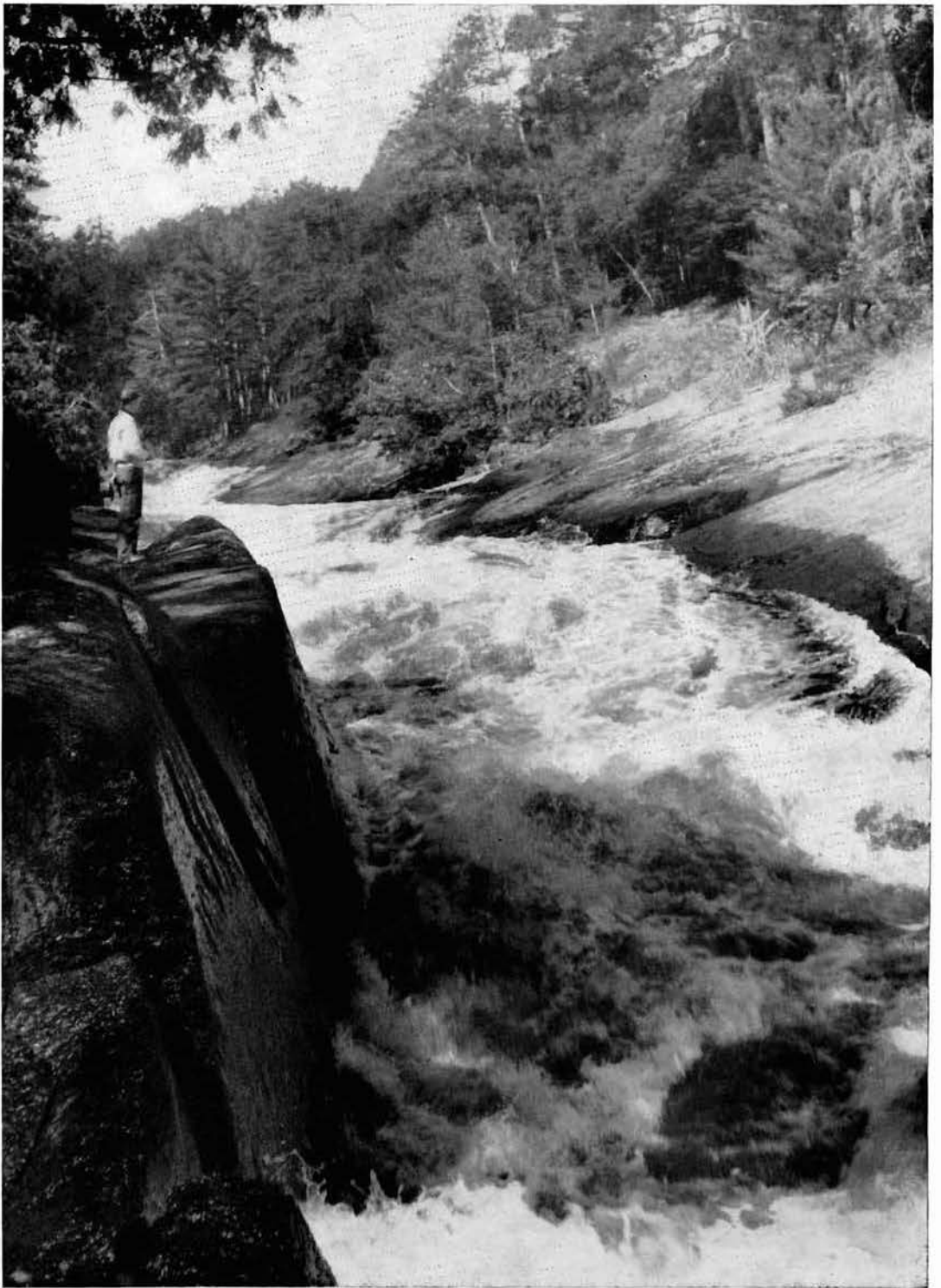
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DEDICATION

It's a queer world! Perhaps those of you who have joined the armed forces of the Nation think that we who are left behind are the lucky ones, for few go forth joyfully to kill. And yet, we watch you go with a tinge of envy, knowing the glory that is yours. We want you to know that we are proud of you, and so, we do our feeble best in dedicating to you this book which is dedicated only to great men.

May you return in glory
and victory!

Foresters in Training



Newly Commissioned Officers

BRUNO L. BERKLUND
"Bud"

Cumberland, Wisconsin
Game Management
Forestry Club, President, '41; Xi Sigma Pi, Forester, '41; Alpha Zeta, Chronicler, '41; Voyageurs; Student Council; Honor Case Commission; Varsity Baseball; Intramural athletics; *Gopher Peavey*, Co-editor, '42. Summer work: Wenatchee National Forest, '41.



GEORGE B. FAHLSTROM
"George"

Minneapolis, Minnesota
Wood Technology
Theta Chi Fraternity; CAA training.

HIRAM Y. HALLOCK
"Hallock"

St. Paul, Minnesota
General Forestry
Forestry Club; Xi Sigma Pi, Secretary-Fiscal Agent, '42; Foresters' Day, '42. Summer Work: Wisconsin Conservation Dept., '39, '40; U. S. Forest Service, Baker, Oregon, '41.

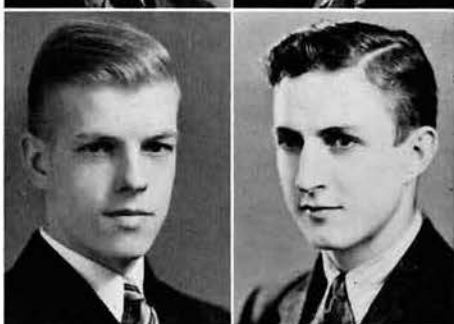


ORVILLE J. HATLE
"Orv"

Hartland, Minnesota
General Forestry
Forestry Club; Recognition Assembly (senior rep.), '42. Summer work: Chippewa National Forest, Minnesota, '33, '34; Chequamegon National Forest, Wisconsin, '34; Ottawa National Forest, Michigan, '35 to '41.

OLIVER KOSKI
"Koski"

Gilbert, Minnesota
Forestry Club; Intramural swimming. Summer Work: Hiawatha and Marquette National Forest, Upper Michigan.



MARSHALL R. NELSON
"Marsh"

St. Paul, Minnesota
Game Management
Intramural athletics; All University Diamond Ball Team, '38; Varsity Football Manager, '37, '38, '39, '40; "M" Club; Manager's Club, president, '40; Wild Life Manager's Club. Summer Work: Camp Naturalist, Camp White Earth, '40. Technical Assistant, Cloquet Forest Experiment Station, '41.

VINCENT L. LINDSTROM
"Lindy"

Minneapolis, Minnesota
General Forestry
Voyageurs. Summer Work: Yellowstone National Park, '40; Ranger, Yellowstone National Park, '41.



IRVING C. MEYETT
"Irv"

St. Paul, Minnesota
Game Management
Forestry Club. Summer Work: Construction work.

GERALD J. O'NEIL
"Jerry"

Rochester, Minnesota
General Forestry
Forestry Club; Gopher 4-H Club; Catholic Student's Con Fraternity; Lodgers League; Student Council, '41, '42; Ag. Union Board, '40, '41, '42; *Peavey* Board (soph. rep.) '40. Summer Work: CAA, '40; United States Army, '42.



RUDOLPH W. KAJANDER
"Rudy"

Cloquet, Minnesota
General Forestry
Tau Phi Delta; Gobblers; Pres. Junior Corporation, '42; Pioneer Hall Executive Council. Summer Work: Northwest Paper Company, Cloquet, Minn.



MILTON PASTORNAK
"Snatch"
 St. Paul, Minnesota
General Forestry
 Forestry Club; Foresters' Day, '40, '41. Summer Work: Siskiyou National Forest, '41; Lake States Ex-Station, '42.

KENNETH S. PETERSON
"Ken"
 Eau Claire, Wisconsin
Game Management
 Forestry Club; Voyageurs, President, '40; Xi Sigma Pi, Ranger, '42; Intramural athletics. Summer Work: Cloquet Forest Experiment Station, '40, '41, '42.



RALPH ANDERSON
 Alwood, Minnesota
Game Management
 Forestry Club; Xi Sigma Pi; Voyageurs, '41, secretary, '42. Summer Work: St. Joe Nat. Forest, Idaho. Enlisted in U. S. Coast Guard before graduation.

CHESTER OLSON
 Brainerd, Minnesota
Range Management
 Forestry Club. Summer Work: St. Joe National Forest, Idaho, '41. Enlisted in Army Air Corps before graduation.

ROBERT DAVIS
 Portal, North Dakota
Commercial Lumbering
 Forestry Club.

CHARLES E. SCHLESINGER
"Charlie"
 St. Paul, Minnesota
Range Management
 Forestry Club; Tau Phi Delta. Summer Work: Student Fire camp, Montana.

GLENN ROTEGARD
 Minneapolis, Minnesota
General Forestry

JOSEPH FOLEY
 St. Paul, Minnesota
Commercial Lumbering
 Foresters' Day, '41.

HOWARD STIEHM
 St. Paul, Minnesota
Game Management
 Voyageurs, '41, president, '42; Peavey staff, '42. Summer Work: St. Joe National Forest, Idaho, '41.

ROBERT GEWALT
 Breckenridge, Minnesota
General Forestry

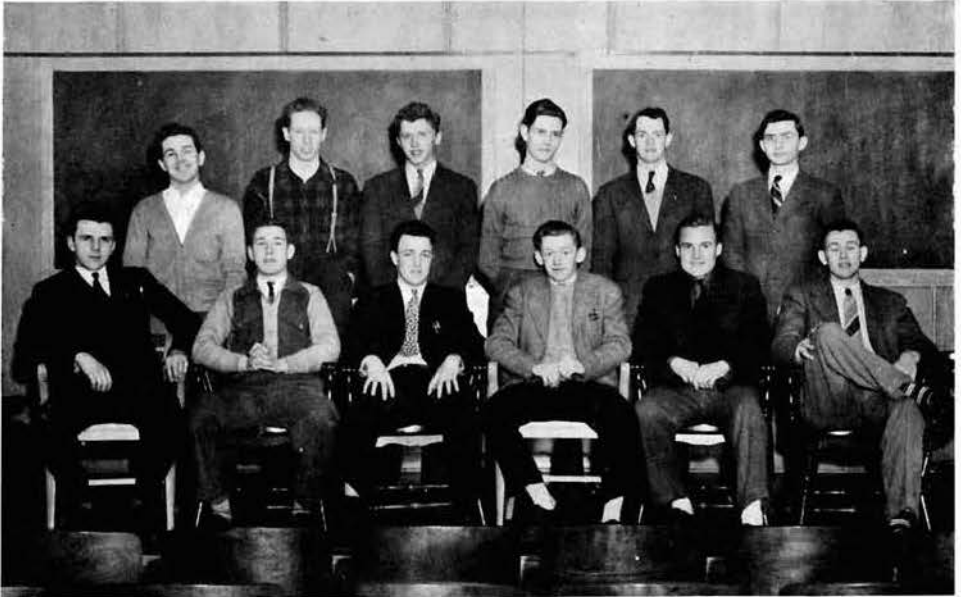
EUGENE THIES
 Clintonville, Wisconsin
Forest Technology
 Tau Phi Delta; Peavey staff, '40. Enlisted in Naval Air Corps before graduation.

JOSEPH VARHOL
 Minneapolis, Minnesota
General Forestry
 Enlisted in Army Air Corps before graduation.

ARTHUR L. JANURA
"Art"
 Berwyn, Illinois
General Forestry
 Game manager's club; Alpha Phi Omega; Intramural athletics; Conservation of Resources Committee; Athletic Counselor for House 3, Pioneer Hall. Summer Work: Caretaker of summer estate, Geneva, Wis., '39, '40, '41.

HAROLD TODD
"Todd"
 Harmony, Minnesota
General Forestry
 Forestry Club; Photographer for Peavey, '41. Enlisted in Army Air Corps before graduation.

Junior Class



Back Row: Tony Kofranek, Lee Winner, Dick Marden, Glenn Deitschman,
Allen Hanna, Dave French.

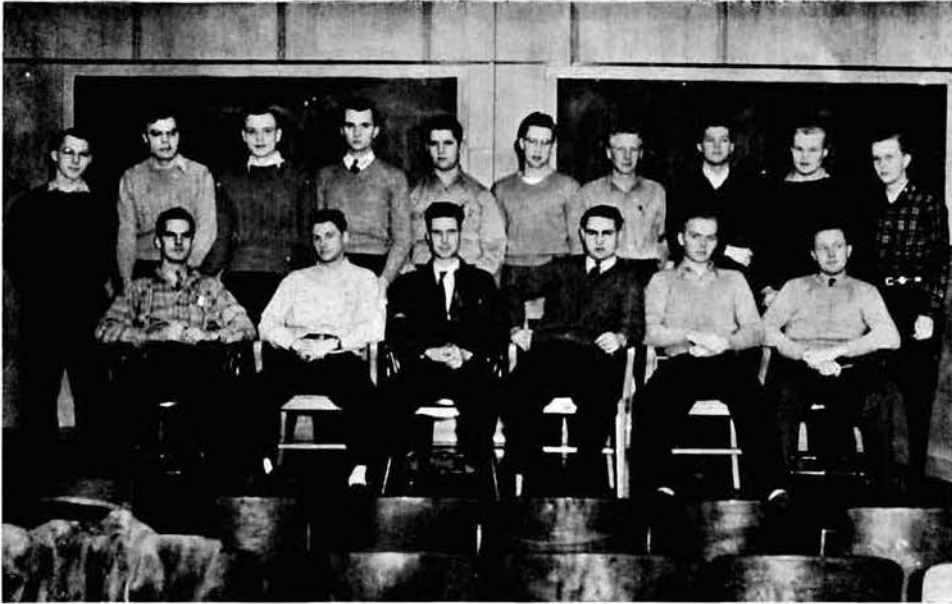
Front Row: Jalmer Jokela, Jerome Esser, Gordon Maxson, Lowell Nelson,
Robert Nelson, Robert Buchholz.

CLARENCE O. ANDERSON
ROBERT C. BUCHHOLZ
GLENN DEITSCHMAN
HARVEY DJERF
JEROME ESSER
DAVID FRENCH
PAUL GOODMANSON
ALLEN HANNA
WILLIAM D. HANNAY
HARVEY H. HARTWIG
RAY JACOBS
JALMER JOKELA
ANTON KOFRANEK

RALPH LAW
RUSSELL LUKKARILA
LEON LUNDBLAD
RICHARD MARDEN
GORDON MAXSON
PAUL MILLER
THOMAS NALL
LOWELL NELSON
ROBERT F. NELSON
ALBERT NICKELS
JACK TWEEDALE
ROBERT VAN VALKENBURG
LEE WINNER

SERGEANTS

Sophomore Class



Back Row: Richard Bosshard, Don Pierce, Ralph Hausler, Bob Fisher, John Schley,
Howard Olson, Robert Bauck, Walter Fillmore, Bernie Granum, Stuart Swanson.

Front Row: Ed Neff, Harvey Medcalf, Durwood Bollinger, Jack Anderson, Warren Vong, Ed Mogren.

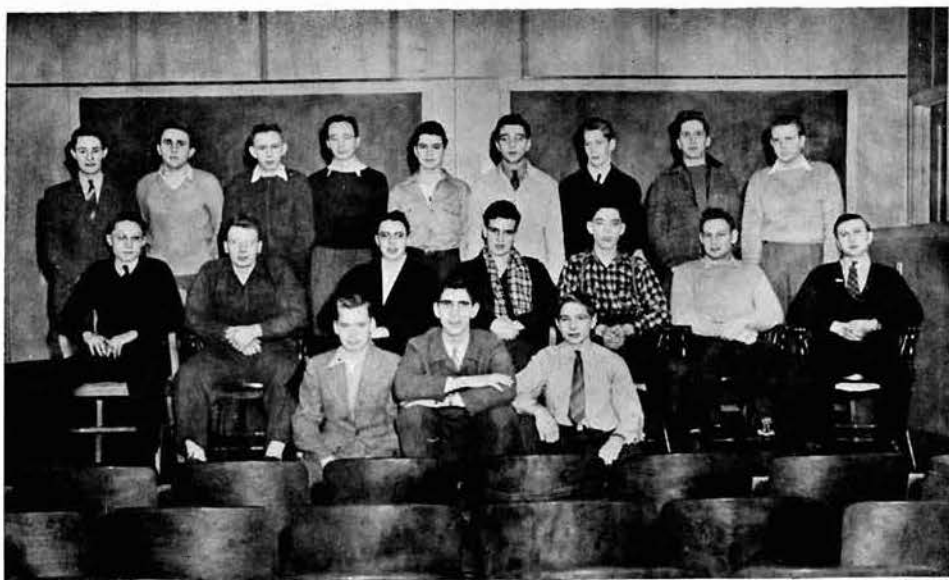
JOHN ALLIE
JOHN F. ANDERSON
SHERRILL ANGSTMAN
ROBERT BAUCK
JOHN BERGERON
EARL BERNDTSON
RICHARD BOSSHARD
JOHN BROGAN
NORMAN BRYANT
JOE CHERN
JOHN F. CLAY
THOMAS CONNORS
ROBERT EIKUM
STANLEY ERICKSON
WALTER FILLMORE

TOM FINNEGAN
ROBERT FISHER
CARL FRÉDRICKSON
BERNARD GRANUM
WALTER GUSEK
RALPH HAUSLER
JOSEPH HOFFMAN
ROBERT HOWE
GEORGE JAROSCAK
GEORGE KORTIN
GEORGE LARSON
CEYLON LYMAN
LEONARD MAKI
F. SCOTT MATHESON
HARVEY MEDCALF
THOMAS MILNER

EDWIN MOGREN
EDWARD NEFF
BERNARD NELSON
GEORGE R. NELSON
HOWARD OLSON
ROY PETERSON
DONALD PIERCE
BRUCE PRENTICE
JOHN SCHLEY
RODNEY SCHUMACHER
NORMAN SORGE
STUART SWANSON
WARREN VONG
LOUIS WILKUSKI
RICHARD WILLIS

PRIVATES 1st CLASS

Freshmen Class



Back Row: Joseph Brazil, Dave Haslund, Grant Beutner, Donald Kohls, Robert Jorgenson, Werner Diehl, Frank Phillips, Richard Yetka, Clarence Larson.

Middle Row: Gordon Ziegenhagen, Glenn Evans, Bill Ziemer, Gene McCarty, Bill Miles, Bob Anderson, Kenneth Baldry.

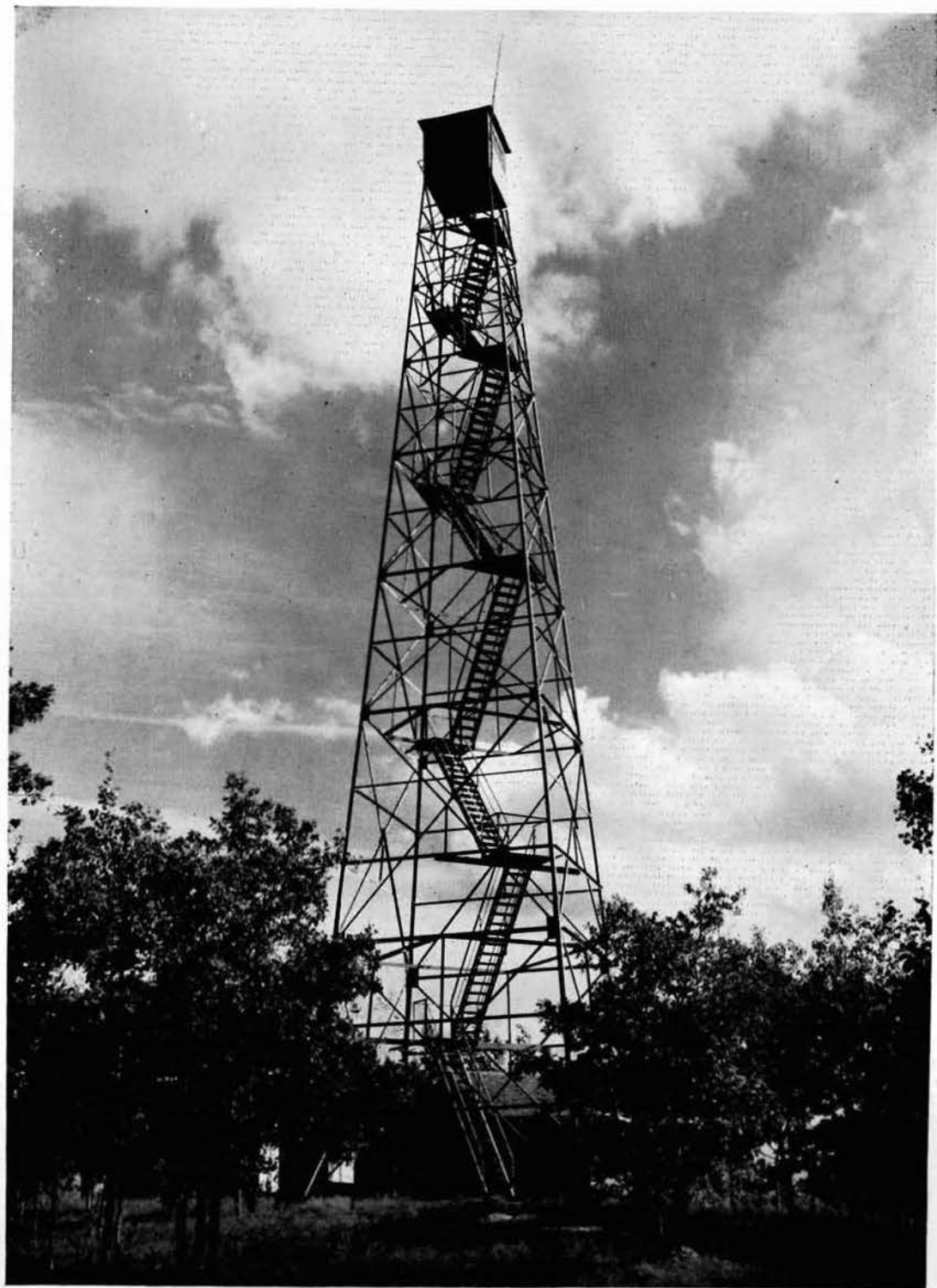
Front Row: Roland Johnson, Tony Wawersich, Bob Bowman.

WILLIAM ALTLAND
ROBERT W. ANDERSON
JAMES ASHE
L. WOLFGROM BAACK
KENNETH BALDRY
ROBERT BEEBE
LE DELL BOWEN
ROBERT BOWMAN
JOSEPH BRAZIL
MURRAY CAMPBELL
HARRY CARSKADEN
CHARLES CRONBERG
FLOYD DAHL
WARREN DAHL
BENJAMIN DERAUF
WERNER DIEHL
GLENN EVANS
HERBERT FINCH
DAVID HASLUND
DAVID HUBMER
ROBERT JORGENSEN

JOHN KAISER
WARREN KENNETH
DONALD KOHLS
CLARENCE LARSON
JAMES LINNE
EUGENE McCARTY
JOHN NOBLE
DONALD OLANDER
FRANKLIN PHILLIPS
ROBERT PHILLIPS
FLOYD POTVIN
ROBERT RICE
FLOYD ROMAN
HUGH RUH
ROBERT TEWS
REINHOLD WAWERSICK
JUDD WELLIVER
RICHARD YETKA
GORDON ZIEGENHAGEN
WILLIAM ZIEMER

ROOKIES

Batteries



FORESTRY CLUB

By BOB NELSON



Front Row: Albert Nickels, John Schley, Robert Buchholz, Glenn Deitschman, Robert Anderson, Howard Olson, Robert Beebe.

Second Row: John Anderson, Warren Vong, Harvey Djerf, Bruno Berklund, Robert Nelson, Leon Lundblad, Dave French, Jerome Esser, Lowell Nelson.

Back Row: Franklin Phillips, Richard Yetka, Ledell Bowen, Ralph Hausler, Jalmer Jokela, Judd Welliver, Edward Mogren, Bernard Granum, William Hannay, Allen Hanna.

They tell the story of the New Yorker who walked out onto an observatory overlooking the Grand Canyon one beautiful evening and nonchalantly said, "Big, isn't it?" I hereby accuse the 1941 Peavey of making a colossal understatement of the same nature when the writer said, "We are happy to report that the log of the Forestry Club is rolling again."

Rolling? Oh, my gosh! Do you know that since '39 the membership has increased from a handful to nearly two-thirds of the total forestry enrollment and that they are all "honest-to-goodness-two dollars paid—there's a card in my pocket that'll prove it—members." Rolling? Why we're traveling like

Gordy's Plymouth coming down from Squaw Peak on a Saturday night.

Now a large membership doesn't mean a heck of a lot in itself, but when the members have enough genuine interest and spirit to pay their dues, come to meetings, work on committees, and support our functions the way they have during the past year, I think we've got a real basis for judgment. Since last fall the number of persons that have attended our various functions has run into the thousands. We've had our annual bonfire, our Timberbug Twirl, a magnificent Foresters' Day, our Foresters' Ball, another whopper of a banquet, two other dances, our annual Foresters' steak fry,

Administrative Unit

and finally, to round everything off nicely, our annual canoe trip. That isn't all! In spite of the doubt raised when the war started, we're putting out another Peavey and trying to put and keep the books in the right color. The club's treasury has handled an amount unheard of before and is now in exceptionally good condition for this time of the fiscal year.

Don't run away, because I'm still not satisfied. If I couldn't say any more for the club than just members, functions, dues, money, etc., I'd just as soon see it fold up. There are hundreds of clubs that have all of these, but there are very few that have the close-knit comradeship and "esprit de corp" that we have. I doubt if there's anyone of the guys that would trade off memories of:

Jerome Esser "Ester"—The rider of the Jacob's staff.

Clarence Anderson "Stinky"—"Booming out the notes of the Foresters' song."

Ray Jacobs "Jake"—"Come on, you flea-bitten pretzel-benders."

Gordon Maxon "Hambone"—"H'm, pretty nice. Wonder where she lives."

Stan Erickson "Stan"—The boy with no books, no lunch, and nothin' to do.

Howard Olson "Howie"—"Nobody will miss two bits. Let's charge half a rock."

Leon Lundblad "Swede"—Swimming, singing tenor, and smoking a pipe are his specialties.

Lowell Nelson "Lolo"—"Listen, Marden, you lookin' for a puffed lip?"

Bob Nelson "Trapper", "Potlatch"—"You know where I'd like to be now?"

Harvey Djerf "Texas"—"Tall, tan, and terrific," quote the Brown twins.

Lee Winner "Wee Wee Winner"—"No! No! Don't say that!"

Dick Marden "Harpo".

Yes, we've got memories that will last. We've made a lot of acquaintances, friends, and real pals. It's been a lively cooperative gang under a fine bunch of leaders. Past President Berklund—the club started its "era of light" under him. President French—he's keeping the guys on their toes and doing a fine job, but he's too efficient, and he thinks we'll all be dead in a year at the latest. Past Vice-President Djerf—it's a good thing he's been elected secretary. Now he'll do some work—if he could only read and write. Vice-President Esser—the poor boy, who thought he was getting a cinch job, is now revising the constitution, and it looks like vice-presidents will be plenty busy from now on. Past Secretary Jacobs—he's in Seattle drawing airplanes and skiing now. How are you, Jake, old boy? Pinch Hitter Lundblad—he might be able to read minutes if he'd take the pipe out of his mouth. Secretary Djerf—"Hi, Stew! I guess you're working, huh?" Treasurer Nelson (for good)—Treasurer for three years and hoping to break even.

Yes, sir, there's more to the club than just paying dues, a Peavey subscription, and a few meetings. Campfires, arguments, football, basketball, diamond ball, hockey, song fests, brawls, bull sessions, dances, cokes, dates, canoeing, wolves, loafing, and working, all weave themselves into an intricate pattern that I, for one, wouldn't trade for a doctor's degree. In fact, with the mess that's waiting to be cleaned up on the other side, these things form the only reason I'd have for wanting to be back next fall.

Xi Sigma Pi



Back Row: Allen Hanna, Bernard Nelson, Jalmer Jokela, Bruno Berklund, Harvey Djerf, Kenneth Peterson.
 Front Row: Francis Kukachka, Hiram Hallock, Lowell Nelson, David French, Gordon Maxson.

National Honorary Forestry Fraternity

Founded at University of Washington—1908

Local Chapter—DELTA CHAPTER—1920

OFFICERS

DWIGHT BENSEND	Faculty Advisor
BRUNO BERKLUND	Forester
BERNARD NELSON	Associate Forester
WILLIAM ANDERSON, HIRAM HALLOCK	Secretary-Fiscal Agent
KENNETH PETERSON	Ranger

FACULTY MEMBERS

J. H. ALLISON	CLYDE CHRISTIANSON	C. O. ROSENDAHL
DWIGHT BENSEND	FRANK KAUFERT	T. SCHANTZ-HANSEN
R. M. BROWN	RALPH DAWSON	HENRY SCHMITZ
E. G. CHENEY	L. W. REES	

ASSOCIATE MEMBERS

P. O. ANDERSON	R. M. CUNNINGHAM	J. A. MITCHELL
J. L. AVERELL	S. R. GEVORKIANTZ	J. R. NEETZEL

ACTIVE MEMBERS

RALPH ANDERSON	HIRAM HALLOCK	BERNARD NELSON
WILLIAM E. ANDERSON	ALLEN HANNA	LOWELL NELSON
BRUNO BERKLUND	JALMER JOKELA	KENNETH PETERSON
HARVEY DJERF	FRANCIS KUKACHKA	YALE WEINSTEIN
DAVID FRENCH	GORDON MAXSON	

Intelligence Service Unit I

Alpha Zeta - - LaGrange Chapter



Front Row: M. Cavert, Meade, McFarland, Sandager, Berklund.
 Second Row: Wold, Jones, Bjoraker, Slettom, Evans, Lashbrook.
 Third Row: Croom, Wilson, M. Hanson, Thornes, H. Olson.

National Honorary Agricultural Fraternity

FACULTY ADVISORS

DEAN E. M. FREEMAN

E. G. CHENEY

L. S. POND

OFFICERS

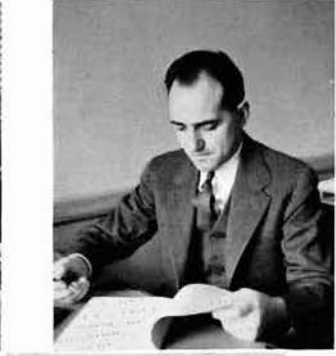
DONALD SANDAGER	- - - - -	<i>Chancellor</i>
KEITH McFARLAND	- - - - -	<i>Censor</i>
ROBERT MEADE	- - - - -	<i>Scribe</i>
MEADE CAVERT	- - - - -	<i>Treasurer</i>
BRUNO BERKLUND	- - - - -	<i>Chronicler</i>

ACTIVE MEMBERS

BRUNO BERKLUND
 WALTER BJORAKER
 MEADE CAVERT
 HERBERT CROOM
 MARSHALL EVANS
 MELVIN HANSON
 RICHARD JONES
 DONALD LASHBROOK

KEITH McFARLAND
 ROBERT MEADE
 HAROLD OLSON
 DONALD SANDAGER
 EDWARD SLETTOM
 HAROLD THORNES
 DUANE WILSON
 MYRON WOLD

Intelligence Service Unit II



J. H. ALLISON
R. M. BROWN
D. W. BENSEND

E. G. CHENEY
HENRY SCHMITZ, *Chief of Div.*
T. SCHANTZ-HANSEN

L. W. REES
F. H. KAUFERT
YALE WEINSTEIN

GENERAL STAFF

OUR FACULTY

Heading our department is **Dr. Schmitz**, newly elected President of the Society of American Foresters, and past Editor-in-Chief of the *Journal of Forestry*. On the campus he is a member of Tau Phi Delta, Xi Sigma Pi, Alpha Zeta, Sigma Xi and many other organizations too numerous to mention. Everyone is aware of his tireless efforts in behalf of the forestry profession and our University of Minnesota. In spite of all his responsibilities "Doc" still finds time for civic services, being a Rotarian and member of the St. Paul Junior Chamber of Commerce. We look upon you as "our forester," a man to respect and admire.

Prof. Cheney: General Forestry could never be quite as enjoyable if taught by anyone other than the indispensable Prof. Cheney. "E. G." divides his spare moments between collecting "gems for the opera" and writing. *This is Our Land*, written with co-author T. Schantz-Hansen, and *American Silvics and Silviculture* are two of his latest publications. Prof. Cheney is a member of Tau Phi Delta, Xi Sigma Pi, Alpha Zeta, Sigma Xi, and Gamma Sigma Delta.

Prof. Allison is currently the "Uncle of Paul" with a reputable record both in the field and on the campus. Prof. Allison holds membership in Tau Phi Delta, Xi Sigma Pi, and Alpha Zeta. The many incidents of the Great Southwest give evidence of "Pop's" repertoire and his experience with the Forest Service. At present he is revising the working plans for the Cloquet Experiment Station in collaboration with Mr. Brown.

With but half the record that **Dr. Rees** holds any forester would be proud. At Syracuse he was a member of Alpha Xi Sigma, Phi Kappa Phi, and Pi Mu Epsilon, and at the University he ranks membership in Tau Phi Delta, Xi Sigma Pi, and Sigma Xi. Teaching Wood Structure and related courses plus present investigations on the effect of steaming and chemicals on the strength and physical properties of wood take up most of his time. "Doc" proved the old saying, "You can't keep a good man down" by pairing with Durwood Bollinger and winning the tree felling contest on Foresters' Day.

Mr. Brown: Say what you will, but "Brownie's" Forest Mensuration and Forest Problems are okay. As a teacher and a friend we can't find a peer. Largely through Mr. Brown's help the freshmen at Itasca

become aware that working for "Uncle" will be more than just enumerating birds and flowers. As previously mentioned he and Prof. Allison are working on revision of the Cloquet Experiment Station working plans. At the University, Mr. Brown is a member of Tau Phi Delta, Xi Sigma Pi, Alpha Zeta, and Sigma Xi.

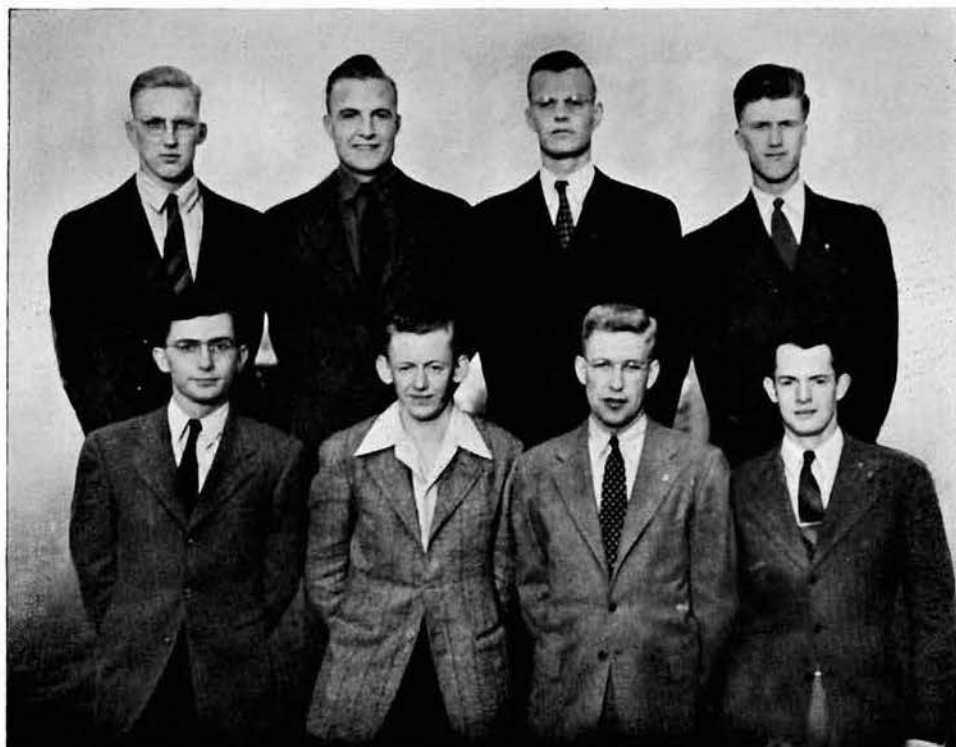
Alumnus of '29 is **Dr. Kaufert**, instructor in Forest Products, Wood Utilization, and related subjects. After obtaining his M.S. Degree at Minnesota he spent a year of study in Germany. The two following years were spent with the Forest Survey of our southern forests. In 1934 he completed his Ph.D. Degree at Minnesota. Continuing his "tourings" he spent four years with the du Pont de Nemours company where he discovered and patented several commercially applicable wood preservatives. Mr. Kaufert has been recognized by membership in Xi Sigma Pi, Alpha Zeta, Sigma Xi, and Gamma Alpha.

Dr. T. Schantz-Hansen continues his efficient direction of the Cloquet Experiment Station, a station to be justly proud of. This year he is able to give more of his time to the forestry seniors because of the abbreviated class, but lumber production is perhaps the chief enterprise demanding his attention at the Experiment Station. Dr. T. Schantz-Hansen is a member of Xi Sigma Pi, Alpha Zeta, and Sigma Xi.

To **Mr. Bensend**, instructor in Farm Forestry and Field Dendrology, we extend the title of "Jack Pine Expert." Some of his latest investigations have been the effect of thiamin and niacin on jack pine seedlings. Together with T. Schantz-Hansen he is investigating the effect of various soils on jack pine seedlings. Although busily working towards his Ph.D. Degree he finds time to be a member of Xi Sigma Pi, Alpha Zeta, and Gamma Sigma Delta.

Mr. Weinstein, alumnus of '37, returned to the University this year to assume a staff position as instructor in Logging and Forest Protection. At the University he also served as Advisor to the Forestry Club and *Gopher Peavey*. Since graduation Yale has worked as logging superintendent of the New Mexico Lumber Co. at Jamez, New Mexico. Now on leave from the University, he will soon enter officers training via V-7. Mr. Weinstein is a member of Xi Sigma Pi at the University.

1942 Gopher Peavey Staff



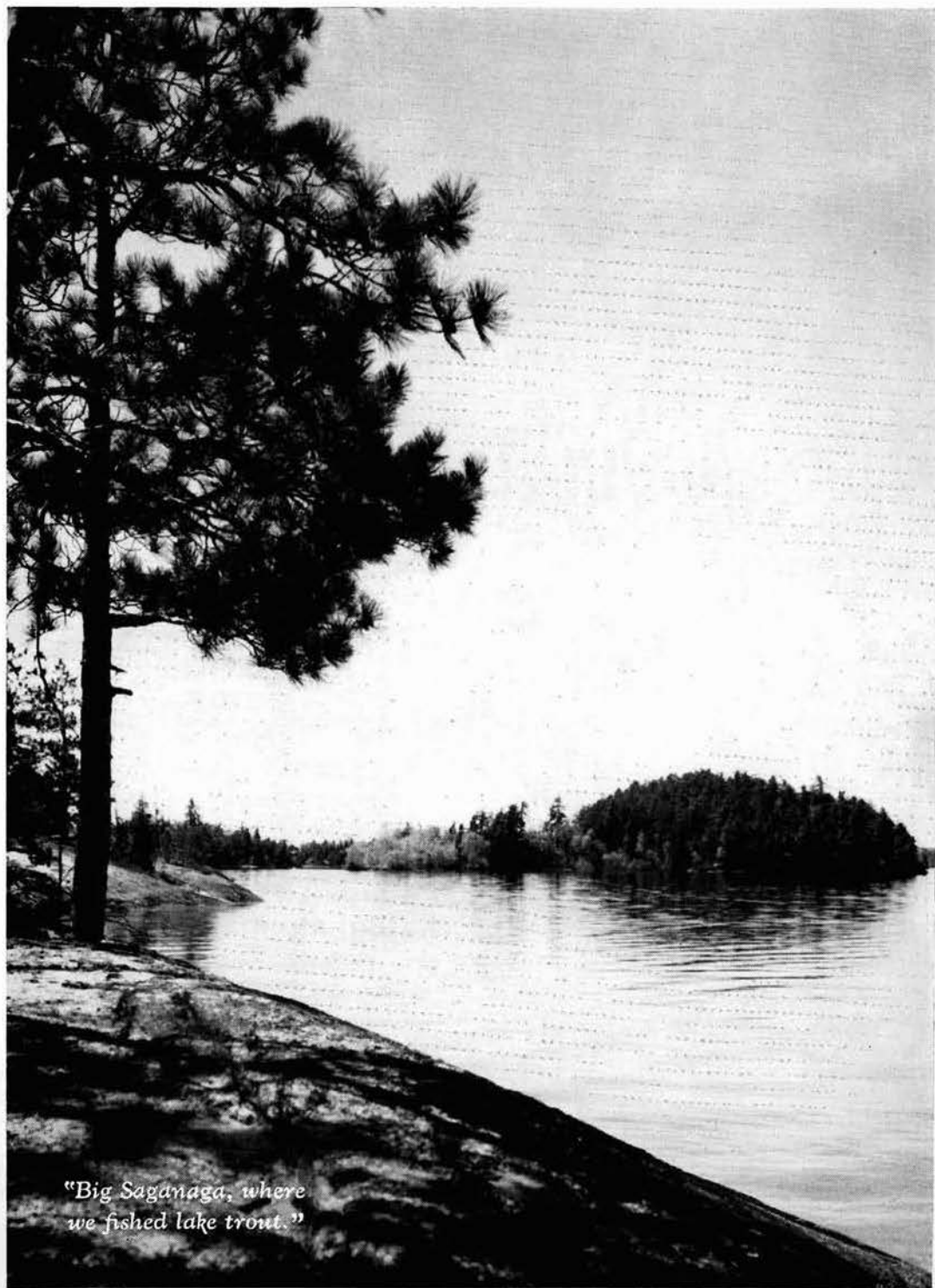
Back Row: Leon Lundblad, Bob Nelson, Harvey Djerf, Bruno Berklund.
 Front Row: Dave French, Lowell Nelson, Howard Olson, Allen Hanna.

BRUNO BERKLUND	}	- - - - -	Co-Editors
DAVE FRENCH			
BOB NELSON	}	- - - - -	Assistant Editor
HARVEY DJERF			
GORDON MAXSON	}	- - - - -	Business Manager
TOM NALL			
BOB BEEBE			
LEON LUNDBLAD	}	- - - - -	Assistant Business Managers
LEE WINNER			
HOWARD STIEHM	}	- - - - -	Alumni Editors
LEE WINNER			
HOWARD STIEHM	}	- - - - -	Assistant Alumni Editor
LOWELL NELSON			
LOWELL NELSON	}	- - - - -	Treasurer
HOWARD OLSON			
HOWARD OLSON	}	- - - - -	Circulation Manager
CLARENCE ANDERSON			
CLARENCE ANDERSON	}	- - - - -	Assistant Circulation Manager
DICK MARDEN			
ALLEN HANNA	}	- - - - -	Photographic Editors
TONY WAWERSICK, JEROME ESSER, ANITA CARKIN,			
MARGARET STRIBLEY, PATRICIA GREER	}	- - - - -	Typists

The staff wishes to express thanks to Yale Weinstein, Betty Knopp, Doris Naeseth, Dorothy Jorstad, the Forestry Department, and the many others who helped in this publication.

STAFF SERGEANTS

COMMUNIQVES



*"Big Saganaga, where
we fished lake trout."*

WAR CHALLENGES THE LUMBER INDUSTRY

By G. H. COLLINGWOOD

Advent of the present war expediated an almost overnight demand upon our natural resources. From industry came the call for materials, and from the producers of the same came the reply. Reflecting on the overall demand upon lumber resources and the response of America's lumbermen is G. H. Collingwood, Forester, National Lumber Manufacturers Assn.

The American people are fortunate to have abundant forests from which to harvest forest crops for war time use. Our forests have always stood by us in time of war. Our forests and the men of the forest industries have met, on time, the war demands of the American people. They did it in 1776, again in 1812, and in 1860, in 1917, and they are doing it today. Without question, the American people are more deeply indebted to the forests and the men of the forest industries today than ever before. It gives a new significance to the work of the forester and his responsibility that forest crops may be continuously available for the needs of peace as well as the demands of war.

When the United States Army called upon the building industry in September, 1940, to supply housing for 1,500,000 men, it was for one of the biggest shelter construction jobs of all time. That request like others since Pearl Harbor, come almost as casually as an order for a peck of potatoes from the corner grocer. The most important single item was lumber, and the orders were marked, "Rush!" "Hurry," "Immediate." Yet the lumber industry, always keyed to the hurry call, took them in its stride.

More than two billion board feet of lumber of various kinds and dimensions

were delivered to more than sixty army camps in the initial program. What this required in the allotment of individual orders to the mills, in selection and allocation of supply and in transportation details, is difficult to appreciate, but there were few errors or delays and the cantonments went up on schedule.

During 1941, a total of 24,750,000,000 board feet of lumber, nearly seventy-three percent of the total United States consumption for that year, were used directly and indirectly in war effort, according to estimates by the United States Department of Commerce. The same authority estimates that eighty-seven percent of perhaps a larger 1942 lumber production will go into war effort.

While the most obvious way in which lumber can serve the nation at this crucial period is in the expansion of housing facilities, large quantities of lumber are used in other defense work. Airplane hangers and other large buildings are now constructed quickly and economically of wood by the use of metal connectors available in forms with teeth, spikes, rings or dowels. These devices make possible great arches spanning approximately 200 feet with lumber of relatively small dimensions. Arches of even greater span have been constructed by laminating and gluing lumber.

By the more extensive use of wood, quantities of metals are released from other industries for armaments. Not only is this happening in the manufacture of buildings, but also furniture, office equipment, boxes and crates for shipping munitions and general army and navy supplies. In the whole range of requirements of our armed forces wood performs many essential functions. Not a soldier could be maintained, not a gun large or small could be fired, in fact, not one important war field activity could be conducted without employing one or more of the various essential products of our forests.

Some of the dramatic war supplies produced from wood may seem to have been fabricated a long distance from the lumber industry. It must be kept in mind however, that only through forest care and development, by means of forest roads and logging equipment, and as a result of fire control, and laboratory achievements can these highly critical wood elements be made available. Forest products used in our war effort include wood charcoal for high strength steel production and gas masks, resin for shrapnel, and turpentine in flame throwers. Wood sawdust is not only widely used in dynamite but wood pulp is a source of gun cotton and other explosives, while wood alcohol is an important solvent. Cellulose acetate, processed from the fibre which makes the bulk of a tree, goes into photographic film which has gained a new importance in modern warfare, and also forms the "sandwich filler" in shatterproof glass in airplanes and other war vehicles. Acetic acid, obtained from the destructive distillation of wood,

produces toxic gases and the smoke barrage of chemical warfare.

Intensive research at the U. S. Forest Products Laboratory at Madison, Wisconsin, and other laboratories throughout the country is revealing a multitude of wood products available for war use, most of which will find a place in the peace that must follow.

Cork, ordinarily obtained from the Mediterranean region, is on the scarce list and research is being conducted that wood may be made a substitute for some uses. High octane aviation gasoline may soon be "stepped up" by a product from the wood hydrogenation process. With a sugar shortage looming, we may even be going to our forests for it, as other countries have done.

Processes are known and only need to be perfected whereby every ton of wood may release two-thirds of a ton of glucose sugar. Suits, overcoats and hats have been made with thirty to fifty per cent redwood bark fibre mixed with wool.

Small wood burners attached to vehicles which generate a gas, to be conducted into the carburetor and then combusted in the engine, have been developed. Over 800,000 tractors, buses, trucks and motorcycles are so equipped in northern Europe. In view of the gasoline shortage in Atlantic and Pacific coastal states, wood gas generators may come to the rescue of the trucker as well as the American motorist. While wood gas does not develop the power of gasoline, it has been estimated, but not yet definitely proven in this country, that \$6.00 worth of wood can provide power comparable to \$50.00 worth of gasoline.

Plastic-bonded plywood, laminated wood and compregnated wood are making great strides in replacing metals. A "compregnated" wood, consisting of veneers impregnated with phenol resins, welded and moulded under heavy pressure, has been developed at the Forest Products Laboratory, whose surface hardness is ninety percent that of plate glass, which can be molded like metal and can be made in varying densities, even within the same piece. Plastic-bonded airplanes are now in production and experimental tests reveal several advantages over all-metal planes. Plywood, and especially the "compregnated" wood, resists oil and gas better than metal, is a poor conductor of heat and sound, and wings made of this material are less susceptible to icing. The hard, smooth surface does not ripple, and needs no rivets, so that its use reduces wind resistance — an important factor in the efficiency of aircraft. Molded "compregnated" wood propellers, being lighter than metal of comparable strength, may soon appear on big bombers and fighter planes with high-powered engines. "Compregnated" wood is taking the place of aluminum, magnesium and stainless steel in cooling tower fan blades, and can be used for gears, gunstocks, electrical apparatus, bearing plates, airplane spar reinforcement, struts, bushings, and fuselage and wing covering.

Along the New England coast, veteran Yankee shipbuilders are turning out wooden trawlers, mosquito boats, mine layers, mine sweepers, and patrol boats by the hundreds. On the Great Lakes

and the Gulf of Mexico more hundreds are hatching. Even metallic monsters like the U. S. S. North Carolina need wood for their decks and superstructures — enough lumber to construct thirty-three five-room houses. Official communiques tell of mosquito torpedo boats made of plywood, originally intended for coastal defense, and operating in the Philippines, which have torpedoed Japanese warships and transports made of steel — each many times the size of the attacking vessel.

Never has the value of wood in war time as well as in peace time been more apparent. Never has the work of the forester been more demanding. The importance of wood as now revealed in a world at war is forcing foresters beyond the functions of care-takers and protectors of a great natural resource to assume larger responsibilities as producers of wood crops. Without restricting forest protection, in fact, with accelerated efforts in line with recent engineering developments and the increased value of forest products, the field of silviculture and forest management is now open as never before in the history of this country. The present challenge to the lumber industry is already being translated into an increasing demand for well trained, intelligent foresters as land managers of forest properties that forest crops may be continuous, may be larger, and may be improved in quality. War's challenge to the lumber industry, war's demand for forest products in many forms, is therefore a challenge to every forester.

MIRACLES OF WOOD IN MODERN WAR

By **GEORGE W. TRAYER**

What part do wood products play in this war? What progress has been made in this direction? What possibilities are perceivable in this field? To consider these questions, we present George W. Trayer, Chief, Division of Forest Products, Forest Service, U. S. Department of Agriculture.

Were you asked, suddenly, to name a dozen basic materials without which the current war abroad would of necessity slow down if not stop, what would you reply? Steel, certainly, and aluminum, copper, rubber, oil, cotton, wheat would be mentioned. But would you name wood, the old standby which made the crib for most of us and which houses 90 per cent of us now? Ten to one, you would not. Yet today that same old reliable is, thanks to research, among the most widely and variously employed of war materials.

Progress and change in the use of wood and wood products from the World War of 1914-1918 to the contemporary world war provided a figurative mural of accomplishment upon which even men of this day can look with hope and confidence. In the decades from Versailles to Munich, the traditional ways in which this many-purpose material was utilized were expanded and multiplied with scientific magic that is still a mystery outside "the labs," at least to most of us.

As a matter of fact, if there is a more stirring parade of the frequently astonishing results of this golden age of wood research than that to be evoked by comparison of wood utilization in the Kaiser's war and in Hitler's war, I cannot imagine it. The peaceful and beautiful tree is

today one of the war indispensables—and to a greater extent than ever before. To think of eating wood seems fantastic, yet the war-consumed Germans already are using glucose, or sugar, derived from wood as food for animals and man. And when the gray-green blitzmen rolled past the Acropolis in ancient Athens last spring in their battered armored cars, their uniforms were 20 percent wood wool, obtained from wood by chemical process perfected between Munich and Versailles.

Since Caesar's Gallic wars, wooden boats have been one of the mainstays of the soldier. Today, the latest things in this style of boat for soldiers is as streamlined and modern as a transcontinental airliner. These up to the minute carriers are being made of plywood glued together with synthetic resin glues upon which water and weather make no impression whatever.

During World War No 1, wood had little part in gas warfare except that acetic acid derived from it was utilized in making certain deadly gases and "smokers." The charcoal in the gas masks, which absorbed the poisonous fumes from the air en route to the lungs had to be made from coconut shells and peach pits. Only coconut shells and peach pits would produce the fine, pure, dense charcoal essential for the masks.

Nowadays, thanks mainly to the refined techniques developed by research, the superfine charcoal required for gas masks can be made from wood.

Having put war more than ever on wheels, Hitler and his blitz planners are largely responsible for one of the most significant, if little noted, changes in wood utilization for war.

World War No. 1 saw an incalculable board footage of timber and lumber go into the shoring up of trenches and dug-outs, into miles of trench duck-boards, posts for wire entanglements, corduroy roads, army wagons, wheels for horse-drawn artillery, camouflage screens, and scores of other uses required for what the military strategists call a "war of position." That is to say, a type of war where you select your lines, build trenches or Maginot lines, and wait for the enemy to throw himself on your guns. Today, "war of mobility," as some commentators call the Hitler version, leaves little time or logic to the old tactic of "digging in," at least as a basic strategy. War has become a matter of speed and movement to a greater extent than ever before.

How much this change may have had to do with the development of wood use in war, one can only guess, but it is a fact that, in addition to meeting multitudinous needs as old as Athens, the products of the tree are now being fitted into the war picture in ways amazingly more ingenious than was the case when Foch taxied his army from the streets of Paris to the banks of the Marne.

The war furies turn up nowadays with such research-born ideas as mass production of plastic plywood planes, artificial silk made from wood for mantoting

parachutes, and wood converted for use in gas masks, shell detonators, photographic film, lacquers, surgical dressings, field telephones, storage batteries and radios.

We learn with surprise that wood, long a component of dynamite and nitro-cellulose, is being used for dies and molds in the fashioning of metal plane parts. We discover that, through treatment with hydrogen, an anti-knock ingredient for gasoline has been developed from wood lignin, until recently a waste product of pulp and paper making. We see ski troops make their debut in battle, and realize that here is still another employment for the hickory that Andrew Jackson made famous.

In Canada and some other warring countries, the use of wood for war structures has been increased and rendered safer through newly invented, fire-retarding paints given to us not long ago by research science. In Germany, France and Sweden, wood gas generators have been perfected, largely as a result of the lack of sufficient gas and oil for civilian needs, and are now powering busses, trucks, and even pleasure cars. Adaptation to our own motors, if ever needed, is not being overlooked by our research workers.

In the construction of planes for the military during the two decades between Wilhelm's war and Adolph's war is a story which reminds one by its form, of fiction—with wood as the hero. There are the early struggles, so to speak, the years of hard work and suspense, and then what seems like final victory. If ever you flew a Curtis JN-4, or a "Jennie" as the first world war flyers affec-

tionately called those spruce and canvas "crates," and if you've since flown in a modern metal transport plane, you have a good idea of this story. But from the research standpoint the kick is in the climax, which according to all present test-tube evidence is now in the making. Wood lost out to metal in plane-making and it appears now about to turn the tables.

During World War No. 1, war planes both for training and combat, were constructed almost entirely of wood. Sitka spruce from Oregon and Washington, British Columbia, and even Alaska was utilized for the structural framework and plywood or canvas covered the wings and fuselages. Plywood of various species was also employed for the webs of box beams and for the gusset plates of the ribs.

Research men worked overtime devising ways and means for making sure that only perfectly sound spruce and thoroughly dried, glued and fabricated plywood went into the planes. Yet looking back everyone realizes that those flying fragilities were not many flights ahead of the box kites most of us flew, as boys.

Between wars, world airplane making developed the modern metal ship to the point of "stuka" dive bombers, transoceanic bombers, speed ships that challenge the bullet, and tank-toting transports. At this writing, no doubt you would search a mighty long time to find a man not up on aviation developments who does not take it for granted that metal alloys are the world's premier materials for plane making.

Yet awhile back there was delivered

to the Army Air Corps the first specimen of a new type training plane. The wings had "skins" of plywood. Unlike the wings of aluminum alloy which are studded with rivets that must be ground down lest they obstruct air flow and reduce speed, the new wooden wings were smooth as glass, with not a single rivet head. They were made of thin sheets of wood veneer, placed layer upon layer, impregnated with waterproof plastic glues and pressed and moulded into final shape under heat and pressure. The impregnated material is so changed in the process that moisture, once out, cannot return. That is the basic secret of the process, for ordinarily wood breathes moisture, so to speak, even in the walls and furniture of the home.

Research men, who have worked for years to perfect methods for "moulding plywood under fluid pressure into 'skins' of acceptable weight that will be secure against the wrinkling and buckling to which metals are subject," believe the means has been found at last that may soon make wood and plywood again materials for the largest and fastest of combat planes. The plastic plywood planes have already aroused the interest of the Army, the Navy, and of commercial aircraft makers. It appears at this early stage in the development that the new type ship could be turned out on a mass production basis, that size for size these planes would be as good as metal ones, and that they could be repaired far more quickly and easily.

Plane makers in England and Germany, and to a lesser extent in the United States, are beginning to replace metal propellers with wooden ones just

as some years ago they began substituting metal blades for wood. The outer blade segments of these new propellers are of relatively lightweight wood while the hub end is fashioned from a new plastic-impregnated and compressed wood product, called "compreg."

Prior to World War No. 1, a good round year was required to dry and cure spruce for plane making. During the war, at the request of the War Department, the U. S. Forest Products Laboratory succeeded by means of carefully controlled dry kilns in reducing this period to from 30 to 35 days. Today, through improved chemical and mechanical processes, the drying of spruce can be done in half that time. Experiments with high frequency electrical currents hold some promise for the rapid drying of special wood items needed for war, but the chief application will probably be in supplying heat for hot-press gluing. Incidentally, this high frequency electrical method is akin to that wherein doctors induce fever in patients by means of electricity for the cure of certain human diseases.

Few research men will disagree with the statement that wood has a future even greater than its past. Many believe that wood finally will yield as many new products as did coal tar, the chemical wonder of the early part of this century. They cite what every housewife knows, that plastics of wood and added chemicals have been replacing copper, brass, and other metals in many household and industrial products. They suggest mysterious and surprising developments. And imaginative man gets the impression that the future of wood, both in war and in peace, will be something like a Broadway of new and useful discoveries. If plastic plywood airplanes and plastic automobile bodies are possible, why not plastic homes? And suppose that by replacing metals with plastic materials, used alone or in combination, the material of the American soldier could be so improved and speeded up that he could move faster into mid-Europe than did Hitler's mechanized minions into the Balkans, then what?

BONFIRE

The black fall night was oppressive until shouts were heard on the other side of Thatcher Hall. Then a lantern came bobbing and bumping along over the fence and into the south pasture. Logs and branches were thrown to the ground, the ring of axes was heard, and soon the black night was split wide open with leaping flames from the fire and the rollicking words of "In the Land of the Lassen, where timber is tall . . ." After the crowd had gathered and a few songs were sung, Bruno Berklund introduced to the freshmen the faculty members who each in turn gave out rare bits of wisdom and their best in the way of humor. This was followed by tales of student experiences at Itasca, Cloquet, and summer work. Bob Hansen of South St. Paul kept his accordian hot with popular songs, and the Juniors filled in with a few songs picked up from here and there (mostly Montana). Ed Mogren and his committee yelled, "Soup's on" about 10:30, and after eating, the '41 bonfire broke up with a few old songs, some reminiscing, and a general "bull-session."

THE FORESTRY JOB AHEAD

By E. I. KOTOK

At times like these the drain upon our timber resources is certain to be abnormal. Before the foresters, then, lies the problem of solving the impending consequence. From a speech at Extension Foresters' Conference, Central States, Madison, Wisconsin, February 12, 1942, we present some views of E. I. Kotok, Assistant Chief, U.S.F.S., concerning the forestry job in the future.

More arms, ammunition, battleships and airplanes! That's the cry in our arsenal of democracy. We hear about shortages in critical metals—more recently in rubber and fuel. How about lumber and forest products? A general belief exists that they will be available in unlimited amounts. In fact, the public appears unaware that lumber and forest products are vital commodities in national defense.

Here's the over-all lumber picture today. Lumber requirements for last year were estimated roughly at 34.8 billion feet, of which 3.7 billion feet were for direct military purposes. Lumber requirements for 1942 have been estimated at 38.2 billion feet, of which 3.9 billion were for military purposes. It is very probable that the actual production will be no greater than 30.4 billion feet, or a reduction between requirements and production of about 8 billion feet. Between 25 per cent and 35 per cent of the lumber produced in 1940-41 entered into some form of defense effort.

Let us now review the wartime uses Uncle Sam finds for lumber. Heavy drawers on the lumber supply are construction of defense housing and the ever increasing cantonment construction. Such uses as ordnance shell boxes, air-

plane and battleship construction, and the need of increased transportation have also shown the stimulating effect of the war.

The tremendous amount of food shipments to our allies requires wood mounting into millions of board feet for the boxes, crates, tubs, and barrels required to contain these food shipments. And as the field of operation of our army and navy expands in this global war, our shipments of essential supplies, including ammunition and military materials, will make a further heavy draft on box and crate materials.

Pulpwood requirements for 1942 will be about 15.8 million cords, or more than the production of any one single year. Among the causes for this increased requirement are cessation of substantial European imports and heavy wartime demands on pulp and paper.

At the Forest Products Laboratory plywoods are being developed for airplane construction, and newly developed compregnated wood, offering strength, hardness, and water resistance equal to some of the metals, will undoubtedly go more and more into the construction of propellers and other plane parts. Without divulging any special military secrets, it is expected that practically all of our

trainer, medium advanced and advanced trainer planes will be made of wood to conserve essential metals.

Through the chemist's hands have also come new uses of wood with such direct applications as dynamite, black powder, shrapnel shells, and chemical warfare materials. All these represent drain on forest resources.

The shortage of steel and other metals has presented a problem of substitutes. How far wood can be used to replace such metals, particularly for commodities used by the civilian population, is a question that is now being analyzed. A preliminary survey shows that about 100 articles now made of metals can, with minor changes, be replaced by wood. To mention a few such articles at random where metals can be saved and wood used instead, we have roofing material, snow fences, poles for telephone, telegraph and electric lines, cheese presses, rosin barrels, freight cars, ice cream freezer tubs, toy wagon boxes and scooters, wire wheels, golf club shafts, wheelbarrow handles, furniture and parts of many agricultural implements. Among the items on this list are cases where lumber lost out to metals years ago.

The goal for naval stores for 1942 is 450,000 units, but it is doubtful whether we will reach 400,000 units. In 1941-42 we produced only 290,000 units.

Let's consider a few specialized items in which a critical shortage is evident. The supply of Sitka spruce lumber for aircraft is below what is needed for the United States and Britain. Yellow birch veneer, box shooks, and pulp may be difficult to produce in the quantities needed. Likelihood of a shortage in

walnut for gun stocks is in prospect. Port Orford cedar and other cedars used for battery separators may fall short of the amounts needed. Fuelwood, too, may be needed in increasing quantities as a shortage in coal and oil, because of our war-burdened transportation system, affects many regions.

The rubber tire shortage also affects lumber production. In the South, which now produces about 50 per cent of our lumber, it is estimated that 95 per cent of this lumber moves on rubber tires either as logs or lumber. Eighty per cent of the pulpwood produced travels on tired trucks for all or part of its journey from the woods to the mills.

One of the problems that we, as foresters, must honestly meet is to make certain that in harvesting all of these products from the forests, the forest lands are left in a reasonable condition for future production. Under wartime pressures, it is easy to justify practices that may seriously impair natural resources.

The Nation as a whole, has not yet felt the full pinch of timber shortages, but there are regions that have. Thus far, centuries of stored up wood have been available, but there must eventually be an end to the "milking" process.

Let's see what has happened in a few states that in the past produced the bulk of the lumber supply. Progressively over a 35 year period, the production of lumber in Minnesota has dropped 92 per cent. In Pennsylvania the total for the last five years was but 12 per cent of that for 1906-1910. As for Indiana, there has been a progressive decrease of 79 per cent. Michigan's production has

dropped off 21.5 per cent over the 35 year period. Even in some of our southern states where cutting has been going on heavily for the last 35 years, as for example, in Mississippi, the cut over that period has been reduced by 40 per cent. Other southern states, like Alabama and South Carolina, have maintained approximately the same cut. However, in Oregon and Washington there has been an increase of 150 per cent and 13 per cent respectively.

How long will these States be able to keep on increasing their cut to meet national demands? The picture would not be half so serious if we were sure that new forests were growing to take their place. Yet certain consuming regions are dependent more and more on wood products coming from long distances. The Lake States used 8.3 per cent of the total consumption of the United States (based on 1938 statistics) but only 27.9 per cent of its consumption is derived within the States.

In spite of the fact that our per capita consumption of wood and wood products has been diminishing from peak highs, we actually consume in the United States, one-half of the wood and half of the pulp and paper produced in the

world. This reflects our high standards of living. To maintain these standards and to improve them on a wider basis in localities living below these standards, we will need wood—lots of it—cheap—and of the right quality. Even the wizardry of chemistry will need cellulose to perform its miracles, and the farm folks will be seriously affected if we haven't a stock pile of growing forests all over the United States.

We must recognize that the forest problem is national in scope. Adequate solution will require national, as well as State action. Let us not delude ourselves that we can continue cutting forests indefinitely—hacking through virgin forests, destroying second growth—and still maintain productive forests, unlimited timber supplies and forest products.

We need to put something back on the lands. We need to apply what science or even plain common sense indicates as reasonable forest practice—yes, the much abused and hackneyed phrase of the forester—"silvicultural practice." We will need inexpensive and plentiful forest products for peace. We need them for war, too, and it may be our best trading stock in the post-war period to help rebuild a civilization in ruins.

CHIPS

Did you hear the Twin City Quiz when four staff members of both the Minnecon and the Peavey displayed their scholarly ways? The harvest was satisfactory. So said both the business managers.

The future of Paul Bunyan teams will be very good if all the freshmen follow the example set by the class of '46 this past winter. Under the leadership of Herb Finch and Bob Jorgenson the freshmen entered a basketball team in the Ag. campus intra-mural league. The boys weren't the champs but it's commendable initiative.

NOT WILD?

The scene is on a lonely highway in Western Montana between Gold Creek and Hellengone. Five Minnesota boys are heading for the Huson fire camp and traveling at a terrific rate in a '29 Plymouth.

"How far to Hellengone, Gordy?"

"Two miles. Dig Djerf out from under the packs there and tell him he has to drive."

(Forty-five minutes later).

"I see Hellengone ahead. Let's stop and eat."

As the boys clomp onto the creaking porch of a swanky hotel, a waiter comes by carrying a drunk on each shoulder, a tray of horned toad stew in his right hand, and a forty-four on each hip. Lowell grabbed the following guest notice from his pocket as he went by.

"Guests of this hotel will please bear it in mind that we will not be responsible for either their lives or their property. There are places convenient where valuables may be deposited for safe keeping, and where life and accident insurance policies may be secured.

"Guests are requested to use proper care and caution when shooting at each other in the dining room, as a reckless discharge of firearms is liable to result in unnecessary killing of innocent and unsuspecting parties.

"If guests have any complaints to make regarding the conduct of waiters,

they will please not come to us about it. The waiters carry pistols, and are supposed to know how to use them, and they will settle all of their own difficulties.

"Guests will be expected to pay for whatever tableware they break in throwing at one another.

"Guests must not put their feet on the tables, especially if ladies are present. The act may be harmless enough, but there are fastidious people who object to it, and we are to cater to the highest and most refined class of society.

"Guests who are not willing to sleep in the same bed with another guest need not stop at this hotel.

"This hotel positively will not bear any part of the funeral expense of people who get killed while stopping here—not even of those we are forced to shoot in the interest of society and good order.

"Guests wishing to attract the attention of a waiter are requested to call or whistle for him. This is better than shooting him through the ear or nose, and, besides, it will save funeral expenses.

"The public will bear in mind that this is no cheap house, but that it is a first-class, high-toned hotel. Therefore guests are expected to conduct themselves in a gentlemanly, well-bred manner. This will be strictly insisted on, even if it be necessary to resort to the use of our guns."

Did you know that on May 15, our "friendly" engineers were scrubbing the water tower behind the Home Economics Building? Some of us will recall January 17, 1941, as an analogous day. The alertness and stringency of the Administration are to be commended, don't you think?

MANEUVERS



FORESTER'S SONG

1. *In the land of the Lassen where timber is tall
There are often brush patches thru which we
must crawl,
Some species are limber while others are stiff
But they all will fly back in your face with
a biff.*

CHORUS

*Oh my, gee but it's fine
To cruise all day long in the tall open pine.
Oh my, gee but it's hell
To cruise all day long in this damn chaparral.*

2. *I once met a ranger just outside my door
Says he, "where the (whistle) have I seen you
before?"*

*Says I, "where were you when your home was
in hell?"*

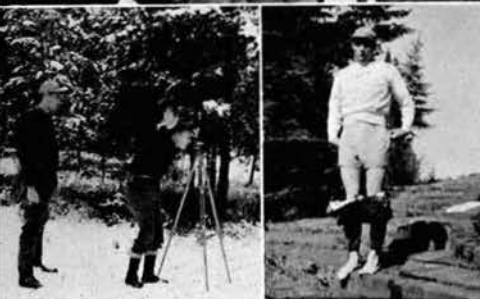
Says he, "on that ridge that is all chaparral."

3. *Now there's old Manzanita, there's blue brush
and oak,
And Chinquapin dusty, it's surely no joke.
I've wondered which kind is the worst till I'm
thin—
At last I've decided it's the kind that we're in.*
4. *Now we might ride the saddle of a ridge we
could stick ,
We might spear our grub with the fork of a
creek,
Use the river bed to sleep on, eat sawdust for
mush,
But we can't scrub our teeth with this damn
hillside brush.*



CLOQUET CORPORATION, 1941

By JOHN WISHART



In general, the Junior Corporation of 1941 might be considered, from the point of view of an outsider, as only average. True, our softball team came out on the short end of the only game that we played. True, we were the smallest Corporation to land in Cloquet for years. True, we could afford no great gift to posterity as a lasting memorial to our experience at camp. But—if you should ask *us*—we were the best Corporation ever. First of all, we had some great individuals. Never since Shakespeare's Romeo did there exist a lover as great as Vince Lindstrom. He didn't miss a week-end in St. Paul all spring, even though he once had to walk half-way there in a pouring rain. No Corporation ever before had a story-teller that could swap yarn for yarn with Cheyney. We had Gebhart—yes, Moose Gebhart. Among our notables we had a driver who could hew trails through the virgin forest with a Ford V-8, making the labor of our pioneer ancestors look silly indeed. Too bad that the Navy Air Corps got him instead of the Tank Corps. And, not at all least in our hall of fame, was Milt, who never could logically explain where he was or what he was doing between midnight on Saturday and dawn on Sunday, nor how we wound up in Shangri-la instead of Poker Flats, attempting to climb into an already occupied bunk. He was finally convinced by the irate aroused sleepers that he was not only barking up the wrong bunk, but had even missed the right cabin.

Before I say any more, I would like to extend our thanks and appreciation to Mom Watkins. Ours was a small Corporation. And the problems involved in feeding such a small group, and feeding them well without charging any more per head than had been customary with former, and larger, Corporations, were almost insurmountable. Mom did it, and did it well. We ate excellently, and what's more, came out above board financially.

While speaking of Mom, there is a little item of information which I believe you all should know. Mr. Cheyney doesn't say very much about it, but Mom has beat him at cribbage for three years in a row. Did I say "Beat"? I meant "Shellacked"!! Making out menus for the coming week with Mom was always a pleasure. You could always count on at least eight games of cribbage before agreeing on the proper meat and potato balance.

As per custom, the President and Steward arrived a few days in advance to set camp to rights, stow the food in the cellar, and make arrangements with the local merchants for mutual business benefits during the stay at Cloquet. In spite of two and a half feet of snow, backwoods roads, and frost-heaved highways, the entire camp mustered for the first class on time. But, aside from the difficult management details under these conditions, the mere attempt to wade through three and four foot drifts that just *won't* support your weight, is no fun. Ask the "Jeep", he knows. His tight fitting high boots didn't offer him much more protection than the bedding that he brought to camp.

Then came the Spring. The snow melted, but refused to go away. It all collected in the swamps, and believe me, running a compass line hip deep in ice water is a job that's just not easily warmed up to. Honestly, I think that the 40's were picked with special reference to the large amount of swamp land thereon. One gang had to wait a week for Otter Creek to recede within its banks before they could find the Northwest quarter of one of their compartments.

The forest zoology course was a little differently managed last spring. Mr. Quimby, a fellow from the largest state in these here "Yew Nited" States gave us a new, and a very excellent, course.

Grouse census by the drumming log and by King's flushing method were two of the activities. In fact, we took a census of everything on the station, from deer down to shrews, before we were done. I must admit that Mr. Quimby had his share of headaches with us.



When a fellow comes back from a four hour vigil on a stump in the corner of his favorite compartment and reports that he heard no partridge drumming, but that he was bothered by some dope with a one-cylinder motor that would kick over a few times and then die, it is time for an instructor to start tearing his hair.

Another innovation of Mr. Quimby's was a trap line for each pair of partners. Faithful were those fur traders to their traps. With a packsack full of peanut butter (for shrews) and oatmeal (for anything that was interested), armed with a phenological notebook, and fired with hopes of a big kill of field mice and chipmunk, the boys would spend all morning setting mousetraps and shoving them under likely looking stumps or brush piles. About three-tenths of the traps were sprung by squirrels—too big to be caught—and the other seven-tenths by rain drops falling onto the pan. Bar-kovic and Nelson were the trappers.

Silvics under the tutelage of Cheyney was an experience. One day in the nursery, the Jeep and Gus dug the cellar for a good sized house, while trying to map the root system of a jack pine. Of course, we planted seedlings by the thousands—all our predecessors did, for we found the remains and the cultivated rows in the nursery. The silvicultural plans for our forties did not produce much trouble, but the thinning plots did. Every man seemed to interpret the instructions given in his own way.

Soils took the boys unawares. It seems that by the time this course rolled around, late spring was with us, with its consequent cases of Spring Fever. The

afternoons spent in digging post holes for soil samples were not so bad, but—the mornings spent in lecture room were a different story.

Camp was broken up a few days after our final party. Not that the party broke up the camp exactly, but if it had not been our farewell party, it might well have. I can state, without fear of contradiction, that we really had ourselves a time.

The Hautula brothers did themselves proud prior to the party. With two exceptions they fixed up every fellow in camp with a date. Their dating bureau was practically perfect—all the fellows were happy—if they remember. This party was the party to end all parties, the grand finale of a corking Corporation.

All in all, the boys learned much about forestry, and much about other things as well. For instance, Howie Stiehm now knows better than to leave his woolen socks in the washing machine for an hour, while he eats supper. Lessons like these, learned by living together with your campmates, and living *co-operatively* (a big word, yes, but one upon which too much stress cannot be placed) are as important to forestry as the curriculum.

Camp was successful, and an experience that the fellows would never swap. When it was over, most of the boys headed for Forest Service jobs on the West Coast. Some were called in the draft, and since then, nearly one hundred per cent of the fellows that spent the spring in Cloquet have enlisted. We wish the best of luck to you all.

FORESTERS' DAY, 1942

By JOE APP

Seven years ago a small group of foresters banded together to plan a special day for the foresters at the University of Minnesota. Many changes have taken place since that time. Those men who took an active part in the original Foresters' Day are now engaged in various occupations—the forest service, private industry, and the armed services. The passage of time since their departure from the University, however, has not dimmed the memory of their commendable work nor our admiration for their foresight.

These men assumed an outstanding role in establishing unity among the members of the forestry organization. The efforts of the foresters this year demonstrated conclusively that the original purpose of the founders was not in vain. With the world at war, the remaining members of a once large student body determinedly went ahead with preparation for their annual reunion. Students, faculty, university departments, and business organizations—all rallied to the cause. The spirit that prevailed was different from other years. There was a deeper feeling of comradeship. Everyone wanted to do something in memory of soldier Johnny, sailor Bill, and pilot Jack—classmates and fellow foresters. It was in this spirit of comradeship that everyone gathered in Green Hall for this year's dedication, which could not be made to any ONE individual because so many merited recognition. The day was humbly dedicated to all men in the far-flung battle areas of the world.

ANOTHER GREAT FORESTERS' DAY, JAN. 17, 1942

The gala festivities of the day began with a good old-fashioned bean feed. When the original Paul Bunyan's dinner horn blasted its urgent summons across the campus, everyone knew that it was time to "come and get it" in true woodsman style. All formal rules of etiquette were cast aside as everyone lined up for the



lumberjack's most staple food, beans—beans, the energy producer that helped to transform a wilderness nation into the world's greatest industrial empire.

With the vim, vigor and vitality that characterized the American lumberjack, the men hurriedly left the cookhouse beanery at Corpus Christi Church and headed up the trail toward Green Hall. The hardy lads were in high spirits and eager to start another old-time Foresters' Day.

The program started off with a cordial welcome to all of our colleagues and a heart-felt prayer was offered for those who have dedicated themselves to the "conservation of freedom."

Following the dedication, P. J. Hoffstrom, better known as Hawf and Hawf, of the *St. Paul Dispatch*, entertained the audience with verbal and cartoon sketches of the faculty and students.

A. G. Hamel, a veteran of the U. S. Forest Service, brought a message to the foresters of the future. He scoffed at any romantic ideas that may have existed about the life of a forester and made it clear that foresters are hard-working men.

A technicolor motion picture, "Trees and Homes," depicted the vital role that the men of the forest products industry are playing in our national life.

When the movie ended, everyone crowded outside for the outstanding attraction of the day—the coronation of the "Daughter of Paul." Betty Hirsch, a charming Home Economics junior, filled the role to perfection. With her ladies in waiting, Irene and Eileen Brown, Jan Faulkner, and Mary Lois Larson in attendance, Betty was escorted

to her throne of ice by the stalwart lads from Green Hall. In a setting of evergreens the Queen was crowned the beloved "Daughter of Paul Bunyan," by Uncle of Paul, "Pop" Allison, who made it official with a smacking good kiss, as Paul's son, Joe App, looked on.

Majestically, the newly-crowned daughter issued a command to her hoary-bearded squad of guards to come forward to have their beards judged. Gently but firmly she gave due consideration to the hirsute offerings of each contestant. For a moment she faltered, for each of these bearded he-men appealed to her as much as the others. But duty called and again the contestants displayed their wares of nurtured facial growth in high hopes of capturing the coveted kiss from her royal highness. Coyly she exercised her best judgment and placed her lips upon the underbrush of Rudy Kajander, President of Tau Phi Delta.

Then like an unexpected apparition there appeared beside her Bob Rice, "the face on the washroom floor." By way of explanation—Bob, a freshman aspirant for the Queen's favor, had been involuntarily shaved the day before, on the floor of the basement washroom in Green Hall. Not to be outdone after his valiant endeavor to capture that much desired reward, Bob hypnotized her with a suspiciously big black beard that looked like the original Paul Bunyan's. Not to play favorite, the Queen also gave him an osculatory reward.

Mobilization was ordered and peaveys, axes, crosscuts, chains, and climbing irons swung into action as the foresters shouted "This is not a day for sissies!"

The air was soon filled with flying chips, sawdust, and the sound of iron clashing against wood as the contestants disregarded the un-January 40-degree-above-zero weather. Buckers sawed through water-soaked logs, fallers dropped timber while ankle deep in water on the muddy contest field, and spectators unsuccessfully dodged the flying mud. After several false starts, a rosy glowing evergreen fire sputtered and sizzled in the muddy infield for less hardy souls than those who braved the puddled ground about the contestants.

When the air had cleared and the shouts had subsided, another array of 1942 champions had proved their mettle. The men who emerged victorious and mud soaked were Durward Bollinger, chopping, 34.5 seconds; Dr. Rees and Durward Bollinger, felling, 54.4 seconds; Bruno Berklund, pole climbing, 14 seconds; Bob Nelson and Bob Anderson, bucking, 40.5 seconds; Bob Nelson, knife throwing; Ed Neff, chain throwing; Gordon Maxson, axe throwing; and Winifred Featherstone won the rolling pin contest.

After the field events, the bedraggled contestants trudged homeward from the field to discard their soggy woodsman's clothes and prepare for the grand finale—the Foresters' Ball.

In a few hours the celebrants gathered at the Leamington Hotel in formal attire. Wraps were hardly checked before the foresters were gliding across the floor with the ladies of their choice. The dancing continued for more than two hours to the strains of Bud Strawn's orchestra, while "Skipper Spencer" dodged in and out of the throng distributing pennies. At 11 P. M., Betty Hirsch and master of ceremonies, Paul Goodmonson, presented awards. Phyllis Shean, pretty Education freshman, the runnerup in Fred Allen's all-University talent contest, sang several songs. The dancing continued until the orchestra brought finis to the day of celebration with the familiar airs of "Home Sweet Home."

And so another great Foresters' Day is past, but cherished memories will remain. All the men in the profession of forestry, will rally to the call of freedom so that the true spirit of America will never die. The character with which the foresters are endowed, will carry them to great heights on many fields of battle and in many strange places. It will carry them through to victory so that future Minnesota foresters will know the true spirit of sacrifice to which the 1942 Foresters' Day was dedicated.

"This year the Dean E. M. Freeman Student Leadership Medal goes to a Forester. His name is—Bruno Berklund."

After these words came the longest round of applause of the evening. Everybody was happy (especially the foresters). Congratulations were fast and furious (Bruno is still wearing his right arm in a sling), and we all know he really deserved it. How about another hand?

The C. L. Lewis Jr. Forestry Scholarship went to Jalmer Jokela, and Bob Nelson received the Charles L. Pack essay prize in forestry.



FRESHMAN CORPORATION OF 1941

By ED MOGREN



The Freshmen Corporation of 1941 was officially formed in May. The organization meeting was short and snappy for the only business was the election of officers. Howie Olson, Warren Vong and Ed Mogren were elected officers—president, secretary-treasurer, and steward, respectively.



We rolled into Itasca Park early on the morning of June 15th. Boy, what a sight! When we passed Preacher's Grove, the tall Norways looked like ghosts along the still waters of the bay; but by the time we skidded on to the gravel road into camp the sun had just pushed through the fog, and it was making the dew on the grass sparkle in front of the row of log cabins along the lake.



The conversation was running something like this, "Boy, I'll bet it's swell fishing. Let's get up at four o'clock tomorrow. We'll get pike over by that point."

"You bet, maybe we can camp over there some night; let me use your jacket, will you?"

"Yea, it's kinda cold."

"This ought to be great stuff, huh?"

One week later, at 7:10 A. M.:

"Get up, Tom, or I'll hit you with this boot."
(Silence).

"That blasted gong has been ringing for ten minutes. Get up! Alright, go hungry!"

"Howie'll lock you out if you don't get a move on."

"Scram out of here, and you know d—— well what you can tell Howie!"

Brotherly love and good will is what we had alright.

. . . Then came breakfast.

"Pass the oatmeal."

"Where do you want it?"

"Where's Bauck, anyway?"

"He's studying for the Botany quizz."

"Pass the leather."



"What leather? That's what you get for sleeping late."

"If you can slow Korten down to a gallop, have him sling the butter over here."

"What butter?"

"I have to eat, don't I? How can I work on an empty stomach? I'm going back to bed."

"Oh, yeah, you're cleaning the cabin this morning."

... Ah, yes, them were the days.

The beginning class was rather strange to us at first, pacing, compass work, chain throwing, and the rest, but by the time we had completed several reports for Mr. Brown, we knew well that there wasn't anything that a month's solid studying wouldn't fix up fine.

Prof. Cheyney's silviculture class was at first a little confusing. The assignment, "Find a jack pine stand and tell me what you see," is not as pointless as it may seem, for each time we cruised a stand we saw more and Cheyney had fewer comments to make about omitted parts.

Dr. Gordon's class in field botany was a running marathon with short stops that included all the plants in the park. Dr. Gordon never mentioned it, but I'm sure all the fellows will agree he must have been a trackman, judging from the way he traveled cross country.

Field zoology was under the capable guidance of Dr. Mickel. We soon found there were birds other than robins and sparrows in the woods. The hardest part of bird hikes to get used to was to have Dr. Mickel turn on us and say, "Listen. Got it? There it is again. Let's have your slips." We were also told early in the session that we were to collect 100 different insects and classify them. I guess none of us except Dick Bosshard heard the assignment for come the third week, there were very few that had started their collections. Howie Olson had the best system for collecting and classifying. The last night before the collections were due he made a survey of all the cabins and collected all the extras in camp.



In this way his collection was complete in about two hours, all mounted and classified.

One experience that will live in the memory of all embryo foresters that were at camp this summer is the running of the diagonal of a section. The trip across the section was a battle with eight foot hazel brush, swamps that lay right on the compass line, and the most vicious gang of mosquitos that have taken over the park in many a year. Most of the fellows won the battle. I say most because one forester tied in on Mr. Nelson's mail-box instead of the section stake on his first try, but on retracing his steps, he succeeded in tying in on the stake.

Then came the week end of the 4th of July and the assignment of forties. Each set of partners drew a forty, and after decoding S.W. $\frac{1}{4}$ S.E. $\frac{1}{4}$ Sec. 12 or a reasonable facsimile, went to look for their own hunk of land. Most of the fellows found their forties with more or less difficulty, but to this day Ed Shemick and Tom Conners claim we ran our base line one chain inside their forty, but we still say that we didn't.

On the first trip out, Bob Bauck started to tally every tree on the forty, and was quite provoked when his partner suggested taking only sample plots.

Dick Lee and Bill Rempel continued their arguing even on their forty and could be heard half way across a section.

It may sound as though we were working all the time but this was not the case. Several trips were made into Bemidji which were considered successful by all but "Cross-bill" Anderson who sat on the curbstone in front of the bowling alley and waited for the other fellows to come back from their "entertainment". Often, the fellows took Harv Metcalf's trail to the camp grounds to take part in a camp fire sponsored by the park service. Dick Kinski was drafted to lead the singing, which went smoothly. The thing that broke up the evening was when the local ranger explained to Dr. Gordon the difference between red and white pine. This was too much for the fellows to control their laughter and the result was an embarrassed forester.

And so the Freshman Corp. of '41 has passed. We leave for the corporations that will follow the sincere wish that their stay at Itasca will be as enjoyable and profitable as ours.

*We leave with you, Itasca, dear
Our best regards and wishes
And hope the smell of this here poem
Don't kill too many fishes.*

Now I want everybody to take off their hats. Boys, our faculty and grads have come through with something to be proud of. Have you noticed how the waistlines of some of the faculty have gone down considerably? Gruelling practice and training have done this. On the wall of the main office hangs a gold plaque engraved with seven names. You see, Captain Frank Kaufert, Sedg Rogers, Francis Kukachka, Yale Weinstein, Rol Lorenz, Dave Brink and Elden Behr bowled themselves to the championship of their division. Keep it up. We undergrads will match every championship you get with one of our own, and we'll spot you ten to start with.

SUMMER WORK

By BOB NELSON

During the summer of 1941 the U. of M. student foresters worked in seven of our Northwestern states. In early spring the assignments began to come. Talk of blister rust control, tower jobs, lumber companies, "red hats" and fire camps started to go around. The freshmen looked on enviously and wished that Itasca was over. Sophomores walked around with swelled chests, gloating over the freshmen, but still didn't know what was going on, and juniors were expecting better jobs, while the wiser seniors wished that they were headed for Itasca again.

The summer jobs here at Minnesota are handled by Mr. R. M. Brown and handed out at his discretion according to the student's classification, honor point ratio, and general adaptability to the job. Last summer Lowell Nelson, Harvey Djerf, Ray Jacobs, Gordy Maxson, Richard Marden, Stan Erickson, Jerome Esser, Leonard Maki, Lee Winner, Harold Todd, Charles Schlesinger, Clarence Anderson, Ralph Hausler, and Warren Gilbertson worked at the Huson Student Fire Camp for the U.S.F.S. in Montana. While in or near camp the general plan at Huson was to alternate actual training in smoke chasing, radio operation, mule and horse packing, and fire suppression with project work such as trail building, surveying, boundaries, cutting, camp improvements, fencing, haying, and threshing. The men paid thirty cents per meal and two dollars per month rent and were furnished with all equipment except clothing. The fire season ran from July 1st to September 15th, and each man went out on from three to five fires which averaged twenty days in length. While on fires, the pay was fifty cents per hour including going to and from fires, with board, room, and transportation being furnished. From Montana to Wash-



ington and Canada they travelled by airplane, train, and truck.

Ralph Nelson and Norb Zamor worked in California, Paul Goodman was with the Oregon Red Hats, an outfit similar to the Montana fire camp, Ian and Ralph Anderson were in Idaho, and Bruno Berklund was in a tower in Washington.

Although the majority of the gang was in Montana last summer, we'll be spread from Southern California to Washington and east to Wisconsin this summer. The Minnesota boys piled up an enviable record last year, and since we did it before, come on, let's do it again. And don't forget to write, you bums!

GEMS - - General Forestry Quiz

October 17, 1938

"... The Forest Reserves were then changed to the National Parks." (**common error**).

"... The trees grow on the slopes of the Rockies on different elevated platforms."

"... The National Forest Reserves law came into effect this time and Benjamin Franklin and Theodore Roosevelt got busy."

"... Forestry wasn't developed in England before 1920 because the people didn't realize the many uses the trees had in store for them."

"... At the base of the mountains is western yellow pine and above this is ponderosa pine." (**common error**).

"... In 1865 Benjamin Harrison was president." (**of the U. S.**)

Fernow = Froneau, Fresnow, Furnow-Furnough.

Hough = Hugh, Hughes.

"Angleman Spruce."

"Ceder."

"Penderrosa Pine."

"Larch Pine."

"Hengelman Pine."

"Alplain Pine."

"... These forests move up the mountains as the mountains travel south."

"... The timbermen went west and began to log for the fun of it."

"... After the Civil War in 1805."

"... President Harris (**of the U. S.**)

"... Angelman Pine."

"... Idahoe ..."

"... England had the "faire Lassey" policy ..."

"... The forests starting on the east coast of the rockies are of Ponderosa and Yellow Pine."

"... The west slop ..."

"... The logging industry started in the New England states and moved northwestward into the Lake States ..."

"... The Alpine is the scrub tree found on top ..."

"... Birch is an important species in the Rocky Mountains."

"... largch is an important tree."

"... In the Sierras in the northern Rocky mountains, the timber grows much thicker than most other forests ..."

"... On the slopes going up the mountains (**Rockies**) grow larch, Loblolly pine, Slash Pine, Ponderosa, and other pines such as Alpine."

"... On the east slope of the Rockies the great plains are located and the trees are principally elms."

"... The topes of the mountains consist chiefly of schrubs."

"... Reproduction is a common way of starting new trees."

CAMPUS INCIDENTALS

TOUCHBALL

"Bob, give it to Lowell on the 'hike' and help Clary with that left guard. Andy and Marden, smear up the right side, and Jake, knock off the left end. O.K. Let's go!"

"What happened on that one? Where were you guys? Listen, Andy and Marden—just take them out of the play. You don't have to kick them in the teeth. They're really nice kids. O.K., the same thing."

The Paul Bunyans again rolled over their opposition for the Ag. Campus Touchball Championship for 1941. "I.M.A.", "2190", and "YM" all went the usual way of Paul Bunyan opposition. The only loss was to the "Y" by the margin of a safety. Ian Anderson captained the team again and played fullback. Ray Jacobs and Bruno Berklund alternated at end and halfback. Lowell Nelson played quarterback and got off plenty of nice "sneakers". Have you ever seen a bull-dozer go to work on a bunch of stumps? If you have, you know what our line was like with Clarey Anderson, Dick Marden, and Bob Anderson at guards, Bob Nelson and Dave French at center, and Gordy Maxson, Howie Olson, Warren Vong and Ed Mogren at ends.

BASKETBALL

The Bunyans also had a basketball team, and again pounded through a rugged schedule for the Ag. Campus championship. Seven straight games were won in which Dick Lee, the high scorer of the team, used his weight to advantage and sparked the team to the title. Howie Olson, Bruno Berklund, Bob Buchholz, Al Hanna and Jack Anderson were the other bucketeers. Do you guys play any other games?

It was cold last Thursday, but we played anyway. It was raining last Tuesday, and still we played. Today I think it's going to snow, but we'll play. You can count on that. The Paul Bunyans started the diamond ball season this year under Jalmer Jokela's guidance as manager and the captaincy of Jack Anderson. But despite the efforts of Bob and Jack Anderson, Bob and Lowell Nelson, Bob Buckholz, Bruno Berklund, Dick Lee, Bob Jorgenson, Dave French, Al Nichols, John Schley, Jalmer Jokela, Gordy Ziegenhagen, and Herb Finch it looks like the Y's year.

In the past year we have also been represented in "All U" sports. We've had all university boxing championships by Doug Chambers, Gordon Maxon, and Tom Partridge. Leon Lundblad received letters in swimming and Bruno Berklund and Scott Matheson have numerals in baseball. Dick Lee, Jack Anderson, and Bob Fisher are on Minnesota's freshman football squad, and last winter Bob Nelson picked up the 155 pound intramural championship of the Ag. Campus by a TKO in the first round.

WHAT GOES UP MUST COME DOWN

Then there was the story of the beaver, for what was to be the climbing pole for next year's Forester's Day is no longer existant. It seems that Durwood Bollinger, chopping contest winner, finding time heavy on his hands while waiting for the Snow Week chopping contest, did the boys a "good" turn by removing our cedar pole.

Said Durwood when asked if it were so, "I cannot tell a lie, I did it with my brand new ax."

Down comes the old, up goes the new. This year the new two wing Plant Pathology and Agronomy building was completed and now houses these two departments. As soon as the new building was completed, the old Agronomy building was razed and ye landmark of yesteryear is no more.

A rumor is circulating that the engineers are minus a flag. The editor would like confirmation or denial of this rumor if anyone should know anything further.

OBITUARY

As a result of the decreased enrollment two of our forestry organizations have found it necessary to cease functioning for at least the duration. This year both Tau Phi Delta and the Voyageurs have disbanded. At present the Independent Men's Association are renting the Tau Phi Delta House.

This past year many foresters have had the pleasure of taking courses with Jan Faulkner, another "forestress". The freshmen are still wondering how she consistently is able to show them up in Dendrology.

The past year the Peavey has had the pleasure of working in closer cooperation with the Minnecon than, perhaps, at any other time in the past. The staff enjoyed this opportunity very much and herein sincerely congratulates the Minnecon staff for being a fine cooperative group and for publishing an excellent and interesting publication.

TRIBUTE

For an excellent job and a successful Foresters' Day the University of Minnesota foresters are deeply appreciative to Joe App, prominent senior and current "Son of Paul."

Pages 47-48 missing from this copy.

Robert Clough — Bob, as many of you know, has been, for the past nine years, associated with the American Red Cross. Now he is field director with an assignment at Rantoul, Illinois. He is in charge of military welfare, and expects a call overseas some time in the near future. Bob has been doing a great job with the Red Cross, and may his good work continue in this very vital and important task.

Ralph Lorenz — Ralph is still at the University of Illinois, where he is Professor of Forestry.

Rolland C. Lorenz — Rollo is back on the Farm and is now doing some graduate work in Forest Pathology, completing some of the investigations that were in progress prior to his departure to South America a couple of years ago. Rollo was the assigned pathologist on the Rubber Survey crew, which was investigating latex possibilities in South America. He has some interesting stories to tell of his trips up the Amazon, and expects to be called back in that same capacity shortly.

Harold L. Mitchell—Those of you who have been accustomed to writing to Harold in Cornwall-on-Hudson, New York, are now informed of his more recent address, Southern Forest Experiment Station, United States Forest Service, Lake City, Florida.

Arvid Tesaker. Arve is planning farms for soil conservation programs, and it takes up at least 90 per cent of his time. Hope the Santa Claus of '42 brought that promotion, Arvid.

CLASS OF 1931

A. Z. Nelson was transferred from Division of Forest Economics, USFS, Washington, D. C., to National Resources Planning Board. Yep, we got your buck, here's your *Peavey*. Like it?

Art Schneider sends word that he is now a 1st Lt. of the Air Corps. His address is Air Service Command, Wright Field, Dayton, Ohio.

CLASS OF 1933

Harry K. Callinan. Harry, a Unit leader of Lake Pepin Soil Conservation District, bears the title of Asst. Soil Conservationist. Sounds mighty fine, doesn't it? He says in his letter, that the work entails planning for proper land use, whether it be woodland, pasture or cropland. As one who knows, Harry recommends that budding soil conservationists background themselves in Ag-

ronomy and Dairy Husbandry. What, and have everyone call you Ag?

Earl J. Adams. Smoky was recently inducted into the uniform of Uncle's fighting army. Old Prexy was in training at Camp Roberts, Calif., and only very recently took time off long enough to marry and join the ranks of the blessed. Prior to Smoky's induction into the army, he was working for the Minnesota Conservation Department located at Big Falls. His most recent address is Pvt. First Class Earl J. Adams, Headquarters Co., 184th Inf., A.P.O. No. 40, Division, Los Angeles, Calif.

George B. Amidon. George has been doing a good job with the Minnesota Dept. of Conservation, Forestry Div. George has been working, of late, with our own Prof. Cheyney in a cooperative study of silvicultural practices to be instituted on state owned lands.

Herman Arle. Herman is more correctly addressed as Ensign Herman Arle, U. S. Army. Following a brief bit of graduate work at Green Hall, Herman enlisted in the U. S. Naval Air Corps. Following preliminary training at Wold Chamberlain Air Field, he won his wings at Pensacola, and thence was transferred to Corpus Christi, Texas. He was assigned the task of instructing the fledgling aviators. Recently we have heard that he has been taking some additional training in P boat tactics and we are expecting to hear of his promotion within the ranks any day now. Herman has made a few trips back to school on his infrequent furloughs, and he is reported to be looking very trim in his navy blue.

Herbert Erickson. In a letter of recent date we did learn that Herb is doing some graduate work at the University of Montana. Fond romance on the Farm Campus did prosper, and Dorothy Gulden, Home Ec, 1938, is now more aptly known as Mrs. Herbert Erickson. Herb is enjoying his work at Montana and has been working on a nursery problem concerned with seed size, germination energy, and size of stock. Herb had been working with a survey crew for the Bureau of Reclamation prior to his entering school at Montana.

James Henderson. Jim, by this time has probably acquired a long, drooling southern accent, since it is now some six or seven years that Jim bid the northland a fond adieu and hied for the sunny southland. Jim has well worked his way up in the creosoting field, and is now plant superintendent

for the Colonial Creosoting Co., Bogalusa, Louisiana.

Onni Koski. Onni has been down to visit us a few times recently. You know that Onni finally forsook the burned brushland of Africa and came back to the country that the Good Lord blessed with the 10,000 lakes. Onni at the present time is forester for the Minnesota and Ontario Paper Co., International Falls.

Myron Ostrander. For those of you that have lost track of Mike, we have a fairly complete record of his recent happenings. When Mike left school he went to work for the Northeastern Timber Salvage Administration and took off enough time in August 1940 to marry one of the local girls of New England. Mike qualified as a certified white pine lumber grader, and has been working in that capacity he writes of some of the other Minnesota men who have been working in the country. **Sam Poirier, '37,** and his wife, are living in the same town as Mike, Wells River, Vt. **Ragner Romnes, '35,** is working out of Concord, N. H.; **Karl Ekstrom** and **Bob Hiller, '37,** were transferred from Concord to Athol, Mass., and all of the above boys have been doing lumber grading for the Salvage Administration.

Russell Rosendahl. After spending a long while at the University of Hawaii, Russ returned to the States, and at the present is affiliated with the University of Wisconsin.

Dell W. Thorsen. Haven't heard much about Torg. in the last few years. He has been running loose with the lean, lank, and unshod critters in Arkansas for so long we sometimes wonder whether or not he can still write. By the grapevine though we have kept in touch with him, and at last learning, Dell was District Ranger for Uncle at Mena, Arkansas.

Yale Weinstein. Yale left the Southwest this fall and has returned to the Alma Mater to fill the gap made by Henry Hansen's departure to Michigan State College, East Lansing, Mich. Prior to his returning, he was Logging Supt. for the New Mexico Timber Co., Bernalillo, N. M. He informs us that he proudly lays claim to investigating a progressive forestry program for his company, which is now operating under a selective logging program, with the hope of eventually operating on a sustained yield basis. At the present time he is teaching the courses in forest protection and logging. Yale plans on going into naval training in the next couple of months.

Gordon Wyatt. Gordy has been climbing the ladder of success with Uncle Sam's Rangers, and at the present time is the District Ranger, Foxpark, Wyo. He proudly acclaim the arrival of a son, Richard, and from what we see of his picture he soon will be plodding the wild and wonderful trails of the Medicine Bow Forest.

CLASS OF 1935

Thor K. Berg. Another Forester gone astray to the Soil Conservation Service. Thor writes that he is Nursery Manager of the SCS Nursery at Winona, Minn. His job is to produce trees and shrubs used for erosion control in Minnesota and Wisconsin, and in his capacity as manager, he's doing it! Thor tells of research work on the value of grasses and legumes in erosion prevention. Keep bringing those valuable species to light; when the War is over we'll go to work and use them.

CLASS OF 1937

Dwight Bensend expects to get his Doctor's this spring. He is still tormenting the dendrologists on spring field trips and will also teach dendrology at Itasca Park this summer.

Charles Frank Shearer is now in the Sales and Service Department of the A. D. Chapman Chemical Co. of Chicago, Ill., but he is located at Portland, Oregon.

Clinton Turnquist recently received his Master's degree in Horticulture. At present he is employed in the Engineering Dept. of the Bell Telephone Co. in Minneapolis. He expects to return to the University soon, to complete the work for his Doctor's.

James Fisher has been a Forest Ranger in the Wisconsin Conservation Department. He is in charge of Cooperative Forest Fire Protection in Central Wisconsin and is stationed at Black River Falls, Wisconsin.

Norman Borlaug recently accepted a position with the DuPont Company at Wilmington, Delaware. Prior to that he was at the University, completing work for his Doctor's degree in Plant Pathology.

Alvin T. Hagen is still at the Supervisor's office of the Shasta National Forest, Susanville, Calif.

Raymond Jensen is now instructor of surveying at Fort Belvoir, Virginia. Before his induction into the armed forces, he was taking graduate work in Forestry at Minnesota.

Philip Joranson received his Doctor's de-

gree in Forestry at the University of California. After that, he entered the Ministry.

CLASS OF 1938

Fred E. Dickinson teaches utilization as Director of Division of Forestry and Lumbering at Lassen Union High School and Junior College at Susanville, Calif. As he puts it, "When I'm not busy here, I have a five-months old Forester at home that demands attention." A little late, but we send our congratulations anyhow. Fred also mentions a reunion with **Al Hagen**, helping to hold down Lassen National Forest, and **Frank Shearer** of the Dale Chapman Co.

Robert E. DeLeuw. Word was received from his mother that Bob is 2nd Lieut. in the Army Air Corps at Kelly Field. He's in the navigation section there. Here's his Peavey, Mrs. De Leuw, many thanks for the order. We hope Bob cleans the living day-lights out of the enemy.

Alvin E. Nelson worked with USFS on the Guamegon National until November of 1941. From there, he was transferred to the Hoosier National Forest. On January of 1942 he resigned, and accepted a position in the Lab. of the Nekoosa-Edwards Paper Co.

Robert E. Lang started out under the thumb of Red River Lumber Co., didn't like the thumb, so now the USFS has him at Quincy, Calif.

Edwin Saarnio. Tex is working for the Barnes-Duluth Shipbuilding Co., and expects to meet a lot of the boys in the army soon. Remind you of the days when you played "boat" in the bathtub with a cake of floating soap Tex?

CLASS OF 1939

Charles Hutchinson. Hutch, the old traitor, has sworn off of Minnesota. According to the tone of his news letter, he could take a salary from the California Chamber of Commerce. California, it would seem, has become his place of business. The Bank of America has Hutch stationed in San Diego.

Morris V. Olson. Morrey done married a school marm, the old girl friend. He also enlisted as a laboratory technician and is stationed at Fort Ord.

CLASS OF 1940

Laurie Kallio says that he's still at Lockheed, but is sorry that he hasn't run into any Forestry work. Here's hoping he will someday. By the way, he got married last

November 20th. Congratulations, Laurie. P. S.: Ralph is now a member of the Coast Guard.

Jim Mickels was tickled by the article "The Forester" in last year's *Peavey*. James spent the last summer on the Tahoe as one of the "suppression crew," along with **John Carlson**, Class of '40.

Ed Patton has been working in the research department of Curtis Companies, Inc., at Clinton, Iowa, since he graduated. He even has taken unto himself a wife, the former **Margaret Watts** of his home town, Mason City, Iowa.

Dick Ahern has been Immigration Inspector at Sweet Grass, Montana. He also sends word of **Doug Boardman**, Immigration Inspector at Detroit, Michigan, and **Forest Olson** who was also an Immigration Inspector at Porthill, Idaho, but is now in the army as of April 20 at Spokane, Wash.

CLASS OF 1941

Bill Zauche writes that after school last year he went west to pull Ribes. He took a Civil Service exam for CAA and now controls air traffic and other related flying dope. The war limits his telling of details. He would like to hear from some of the boys out West.

Vernon Hahn is at Duke University where he is working for his Master's. His major is forest tree physiology, and he is finding out that little trees die if you're not a good nursemaid. Some of his loblolly pine are "shot" and some of his yellow poplar look sick. It's the Army in July.

Howie Osmunson is still plugging along with the Winton Lumber Company in Coeur d'Alene, Idaho. He hopes for and wishfully expects a change of tasks weekly. Like all good Minnesota Foresters he sent in his buck for the *Peavey*.

Richard M. Dingle. Make way for the Marine. When last heard from, Dick was headed for Quantico, Va., where he will do full-time work for Uncle Sam as a student in the Marine Officer's Training School. Our heartiest congratulations and best wishes, Dick.

Chalmer W. Gustafson. Gussy, to you we send congratulations. The College is more than proud of its Flying Foresters. Lieutenant Gustafson, now of the 15th Rcn. 38th Bomb Group, Patterson Field, Ohio, was commissioned last February, as 2nd Lieutenant in the air corps. He expects to see some action before this war's over.

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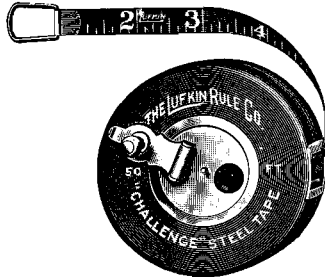
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An International Lumber Journal

623 S.W. Oak Street - Portland, Oregon

Annual Subscription Rates: United States \$3.00, Canada \$3.50, Foreign \$4.00

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