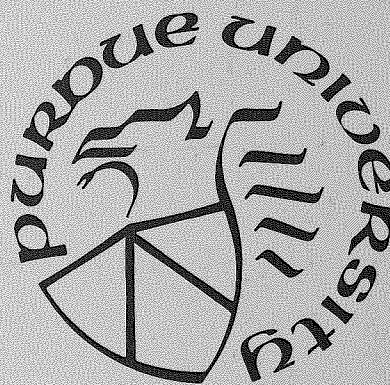


D17-1969-70 Spring

PURDUE LOG

Spring

1969-70



Department of Forestry and Conservation

School of Agriculture

Purdue University

PURDUE LOG

SPRING 1970

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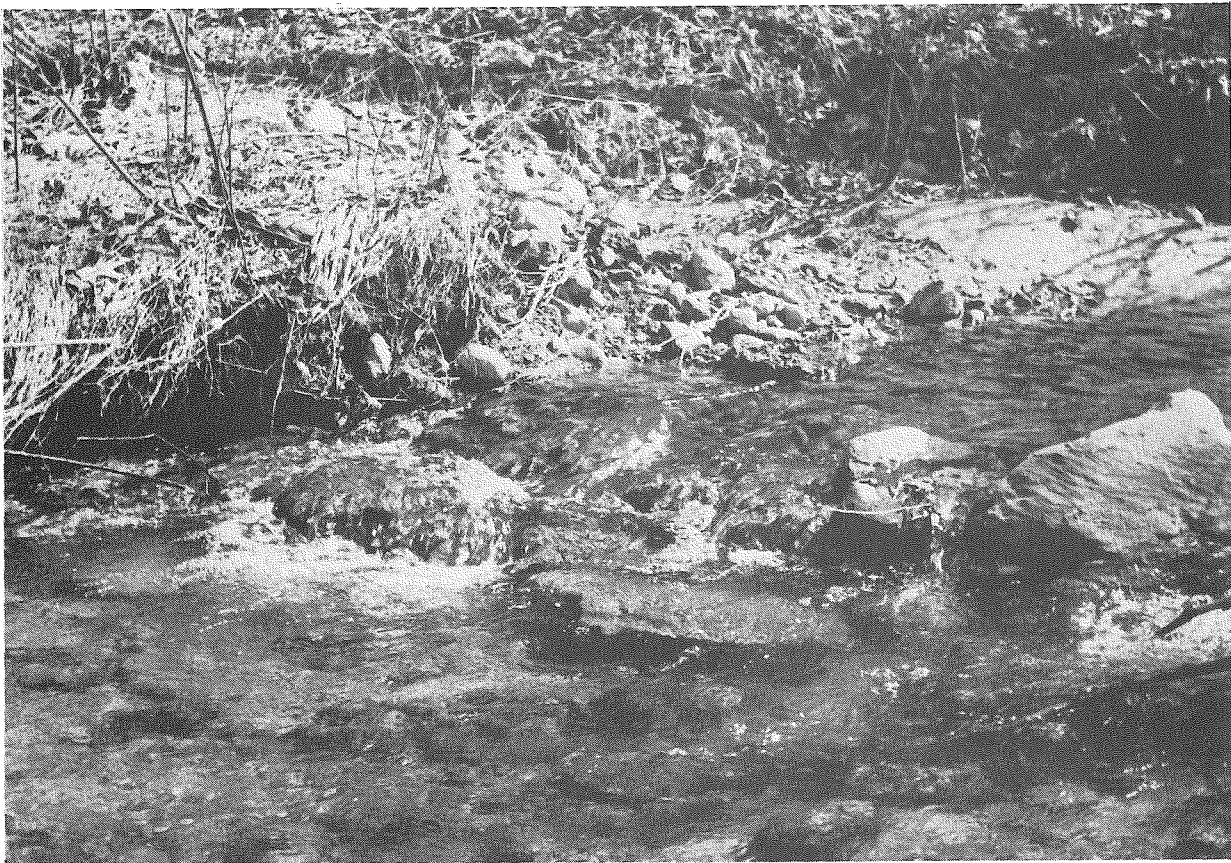
VIEW FROM THE TREETOP

by

W. C. Bramble, Department Head

The accreditation committee of the Society of American Foresters visited Purdue on February 26-27. After meetings with President Hovde, Vice President Hawkins, Dean Kohls and Dean Hilst, the committee reviewed the department forestry program in some depth. About all we can say at this point is that their report is in; and that it shows that there are several notable strengths and weaknesses in our program. Reaccreditation is not usually acted upon until the fall meeting of the Society when the SAF Council makes the decision.

New programs recently set up in the School of Agriculture at Purdue in "Natural Resources and Environmental Science" and in "Community Development" will undoubtedly involve faculty in our department. The plan is to appoint selected faculty to the new programs while at the same time permitting them to remain members of their home department. This promises to be an exciting development in natural resources of which we hope to become an active part.



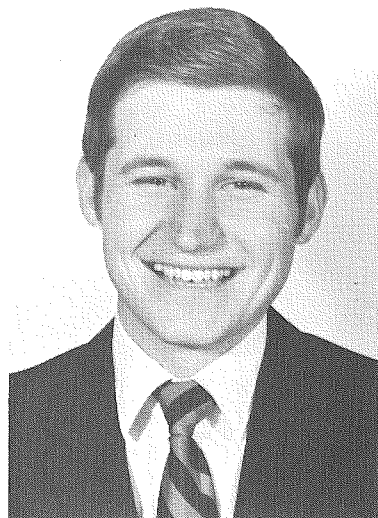
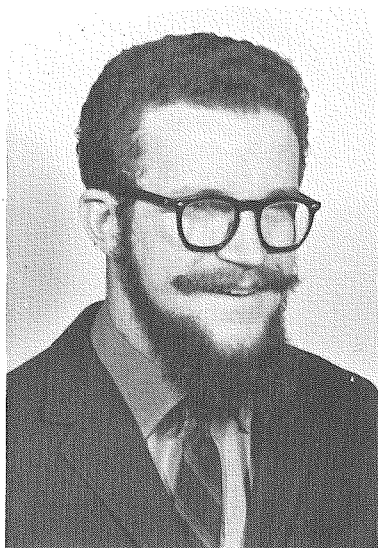
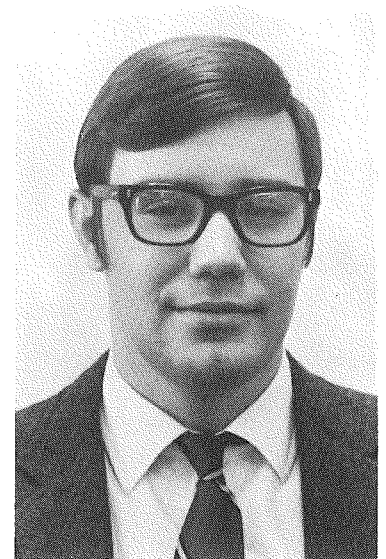


TERRY W. ALDERFER
Plymouth, Indiana
Summer Camp, '68
S.A.F. Forestry Club.

JAMES A. BARNHART
Rossville, Indiana
Summer Camp, '68
S.A.F., Forestry Club.

JAMES R. BECK
Henderson, Nevada
Summer Camp, '68
S.A.F., Forestry Club, Kaibab
Nat. Forest, Arizona.

TERRY R. BONBRAKE
Huntington, Indiana
Summer Camp, '69.



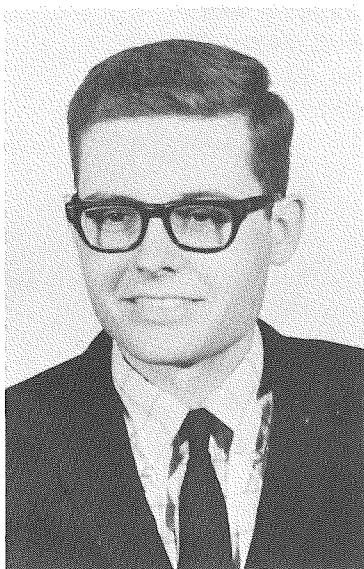
MICHAEL W. BOURKE
Lapel, Indiana
Summer Camp, '68
U.S.F.S. Nursery, Watersmeet,
Michigan.

HAROLD D. BRUNER
Logansport, Indiana
Summer Camp, '68
S.A.F., Forestry Club,
Log, Xi Sigma Pi.

JAMES A. CARTER
Stinesville, Indiana
Summer Camp, '68
S.A.F., Xi Sigma Pi.



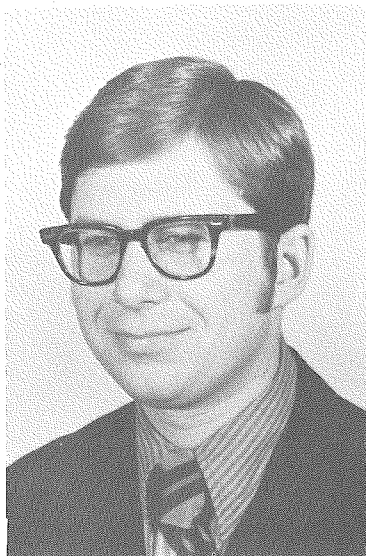
GREGG N. CLYMER
Anderson, Indiana
Summer Camp, '68
S.A.F., Xi Sigma Pi,
Container Corp. of America.



MICHAEL E. COGGESHALL
Angola, Indiana
Summer Camp, '68
S.A.F., Forestry Club, Xi Sigma
Pi, Kimberly-Clark Corp.

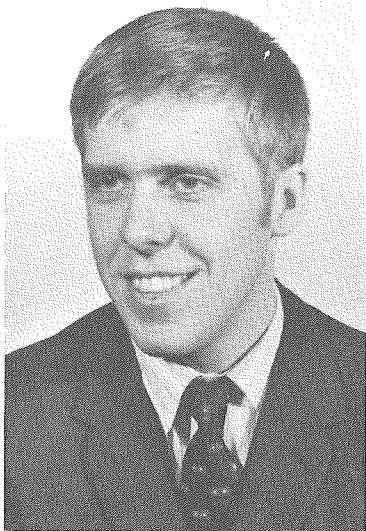
JOHN P. DWYER
Terre Haute, Indiana
Summer Camp, '68
S.A.F., Xi Sigma Pi, Forestry
Club, Weyerhaeuser Co.

DANIEL L. GOSNELL
Seymour, Indiana
Summer Camp, '68
S.A.F., Forestry Club,
National Veneer Co.



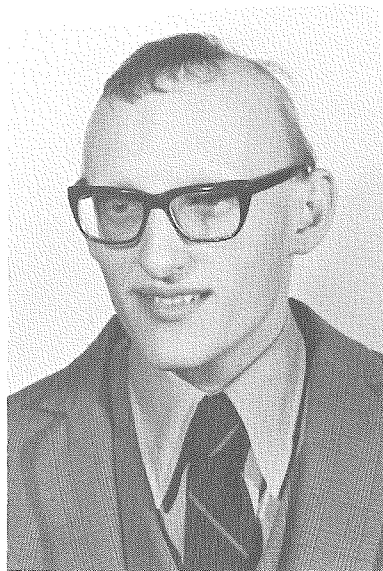
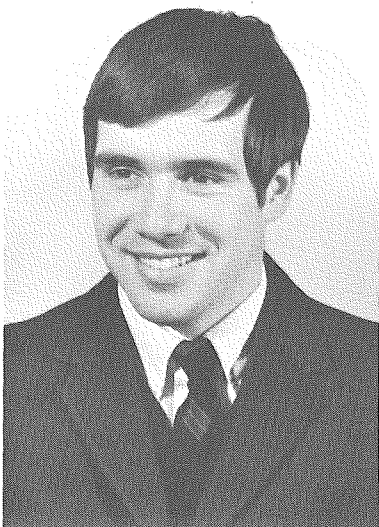
DENNIS G. HAMMER
Speedway, Indiana
Summer Camp, '68
Forestry Club, Summer Resort
Work, No. Wisconsin.





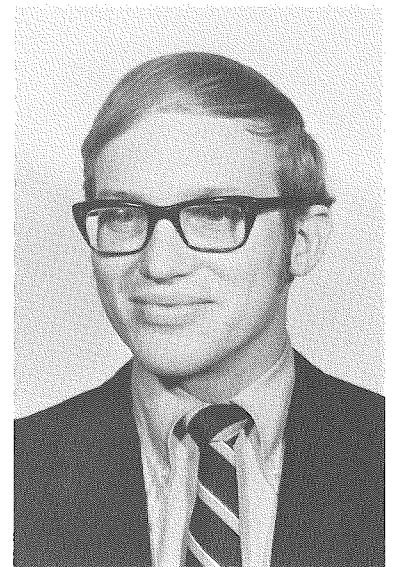
BEN J. HUBBARD
Marion, Indiana
Summer Camp, '67
S.A.F., Xi Sigma Pi, Army
Corps of Engineers.

DAVID A. JENKINS
Kokomo, Indiana
Summer Camp, '68
S.A.F., Forestry Club,
U.S.F.S. - Pennsylvania.



DAVID J. HANSON
South Bend, Indiana
Summer Camp, '68
S.A.F., Intersivity Christian,
BLM - Alaska and California.

DALE A. HIRSTEIN
Bremen, Indiana
Summer Camp, '69
S.A.F., A.F.A., Forestry
Club, Xi Sigma Pi.

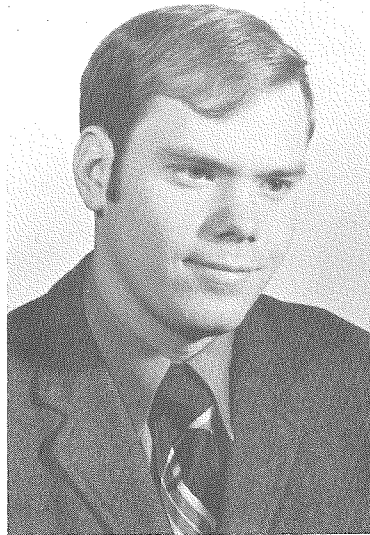


LARRY M. JONES
Michigan City, Indiana
Summer Camp, '68
S.A.F., Forestry Club,
Weyerhaeuser Co.

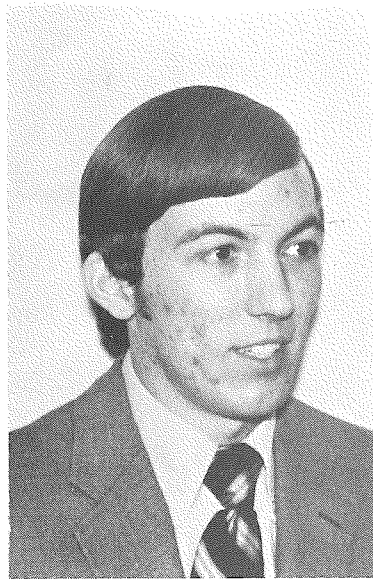
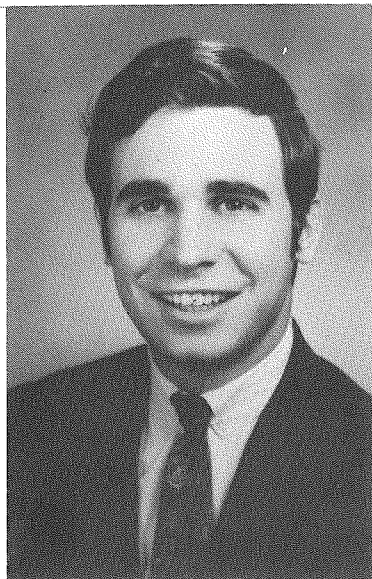
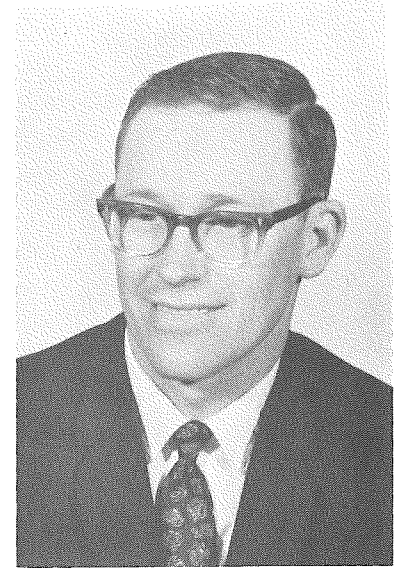


RONALD L. KUMMER
Bluffton, Indiana
Summer Camp, '68
S.A.F., A.F.A., Forestry Club, Log,
Xi Sigma Pi, Wisconsin DNR.

DAVID A. LINN
Pittsburgh, Pennsylvania
Summer Camp, '68
S.A.F., Forestry Club.



RONNIE L. LINVILLE
Arlington, Indiana
Summer Camp, '68
S.A.F., Forestry Club.



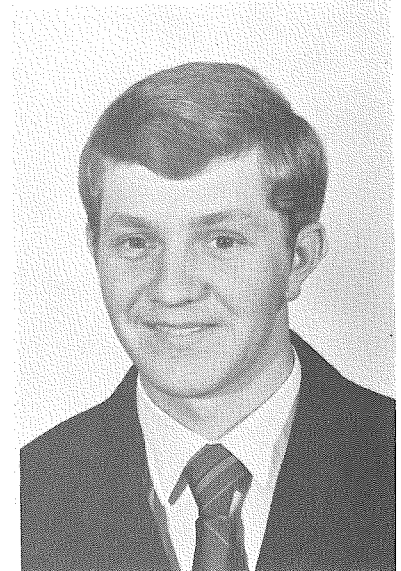
RANDALL L. MOSER
Floyd Knobs, Indiana
Summer Camp, '67
Forestry Club, Weyerhaeuser Co.

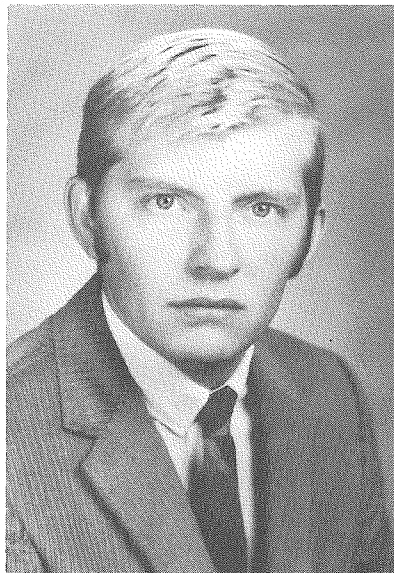
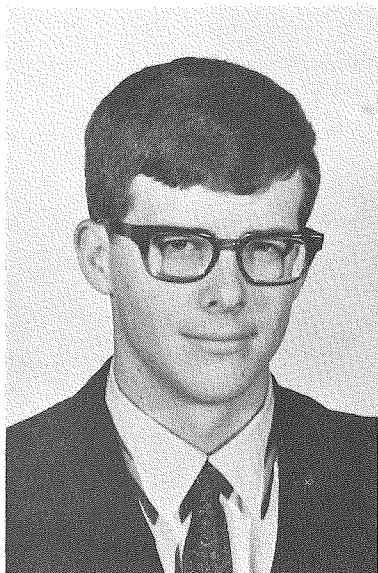
PHIL R. PICKETT
Greenfield, Indiana
Summer Camp, '68
S.A.F., Forestry Club, Log.

JUDE R. RICHARDSON
Saranac Lake, New York
Summer Camp, '69
S.A.F., Forestry Club.



JOSEPH A. SCHUERMAN, JR.
Osgood, Indiana
Summer Camp, '68
S.A.F., Forestry Club.



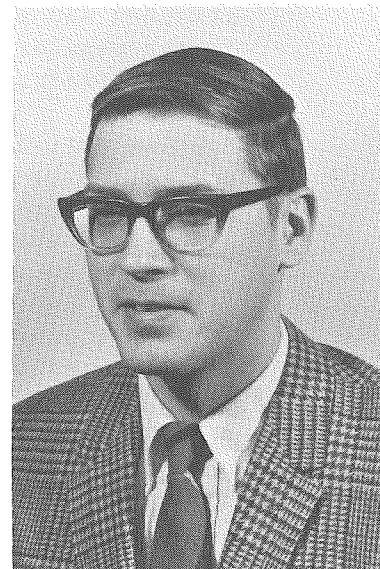
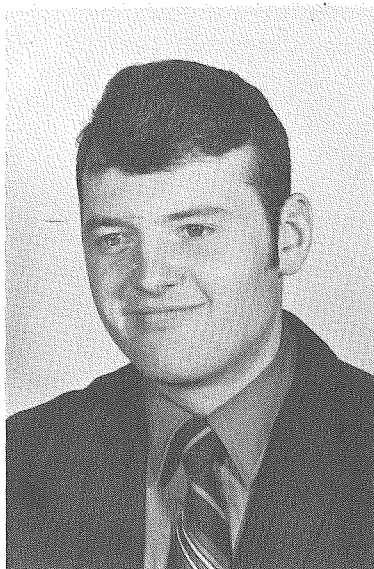


MARTIN L. SNYDER
 Brownsville, Indiana
 Summer Camp, '68
 Forestry Club, Xi Sigma Pi,
 U.S.F.S. - Washington.

DON W. STUMP
 Hammond, Indiana
 Summer Camp, '68
 S.A.F., Forestry Club, Log.

PATRICK M. TOOLE
 Otterbein, Indiana
 Summer Camp, '68
 Forestry Club.

FRED L. TROSKY
 Zionsville, Indiana
 Wood Technology
 Forestry Club, Xi Sigma Pi,
 Radio Corporation of America.



Not Pictured

Danny L. Everage
 Pekin, Indiana
 Summer Camp, '69.

Michael D. Hill
 Bremen, Indiana
 Wood Technology
 S.A.F., Sawmill
 Work.

Gerald M. Rausch
 Winamac, Indiana
 Summer Camp, '68
 S.A.F., Forestry Club,
 U.S.F.S.-California
 and Idaho.

THE PURDUE WILDLIFE CLUB

by

Larry Schmeltz

The Purdue Wildlife Club has a current membership of fifty-one students. The present officers are: Larry Schmeltz, president; Dean Jessup, vice-president; and Ronald Thomas, secretary-treasurer. Meetings of the club are held on the second and fourth Wednesdays of each month.

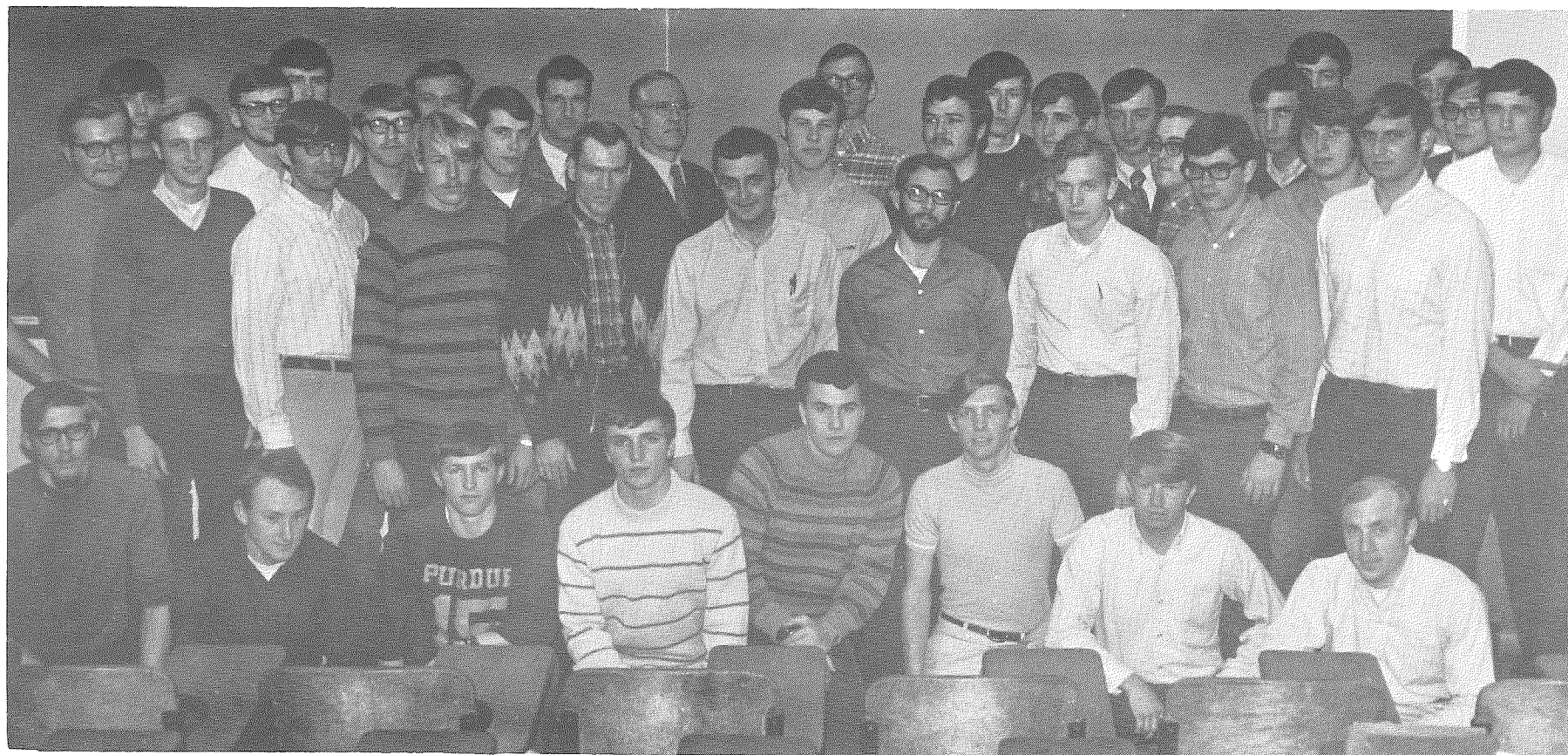
The purposes of the organization are to promote interest in our renewable resources and provide a means of communication between students and professionals. The primary activity of the Wildlife Club is its regular meetings which are highlighted by a guest speaker, most often a professional in the wildlife field.

An activity in which the club participates each year is the mass collection of biological data at the Crane Naval Depot deer checking station. This activity is part of the necessary preliminaries for evaluating the condition of that deer herd and for providing information used in setting the annual harvest regulations.

This year in an all-out orientation drive for freshmen and transfer students, the Purdue Wildlife Club presented an outdoor squirrel barbecue. All incoming wildlife students were personally invited to a rustic feast of barbecued squirrel, fresh garden vegetables, and home-made brown bread. Invitations were also extended to the administration of the School of Agriculture, the head of the Forestry and Conservation Department, and all wildlife faculty. This was a relaxed student-faculty activity in a wildlifer's "natural environment."

Although the membership of the club is small compared to the memberships of many of the other clubs, it enjoys close to one hundred percent participation in club activities. Because of the club's small size there is close comradeship among its members, an esprit de corps not often found in larger, more formally organized clubs. Group unity is also attained by presenting speakers and topics that are of common interest to all members. Here again, the size of the club and the comradeship of its members makes it possible to achieve this.

WILDLIFE CLUB



1st row (l to r) R. Wille, R. Hay, J. Radke, J. Eloff, K. Wright, T. Rimstidt, L. Markle and R. Tuszynski

2nd row (l to r) D. Hook, S. Ruckel, D. Jessup, J. Ruwaldt, M. Mihalo, H. Hudak, R. Thomas, C. Strang, R. Mars, T. Ganser and J. Heisterberg.

3rd row (l to r) R. Haney, R. Bell, R. Clawson, C. Kirkpatrick, R. Reed, M. Schoonveld, M. VanDen Avyle, R. Creason, J. Bottorff and S. Kruckeburg.

4th row (l to r) W. Bean, N. Adams, R. Mumford, J. Gerbrocht, J. Ross, L. Schmeltz, M. Carlisle, M. Vanada and L. Keck

Xi Sigma Pi

by

Fred Trosky

This year the Kappa Chapter of Xi Sigma Pi selected a new faculty sponsor after Dr. T. W. Beers, the present sponsor, expressed the view that he wished to be replaced to allow for new and fresh ideas in the fraternity. Dr. Beers has been faculty sponsor since he first came to Purdue and feels that a new sponsor should be selected every three or four years. Since the fraternity is open to qualified students in forestry, wood utilization, wildlife, and conservation, the members thought it best to select the new faculty sponsor from a field other than forest production so that the fraternity might become more integrated. Accordingly, the new faculty sponsor will be Dr. John F. Senft from the wood research laboratory. Dr. Senft will assume his duties at the start of the semester next September. He received his B. S. and M. S. in Forestry at Pennsylvania State University and his Ph.D. at Purdue. He is engaged in research in wood mechanics and teaches three courses in the wood utilization curriculum. He also serves as advisor to wood utilization students. The fraternity welcomes Dr. Senft as its new sponsor and thanks Dr. Beers for many years of service to the fraternity.

Again this year Xi Sigma Pi presented an award at the annual Forestry and Conservation Banquet to the sophomore in forestry, wood utilization, wildlife, or conservation who had the highest grade point average after three semester's work. This year an engraved cruiser's axe was given to James Burroughs, a sophomore in forestry.

As another step in attempting to integrate the fraternity, the pledging ceremony was studied thoroughly and changes were made to make the ceremony more meaningful to students in all the areas of specialization. The fraternity hopes that with this effort to integrate the four specializations more students from wildlife, conservation, and wood utilization will accept membership in the fraternity.

Xi Sigma Pi



First row (l to r): R. Thomas, L. Snyder, H. Bruner, M. Coggeshall, C. Kennedy, R. Kummer, B. Hubbard and D. Betters.

Second row (l to r): F. Trosky, J. Hunley, D. Hirstein, R. Cochrane, J. Jankowski, J. Thompson and D. Field.

Third row (l to r): J. Vanada, S. Brandsasse, K. Evans, K. Foszcz, R. Denman, M. Van DenAvyle, C. Wesson and K. Brown.

Forestry Club

by

Larry Jones

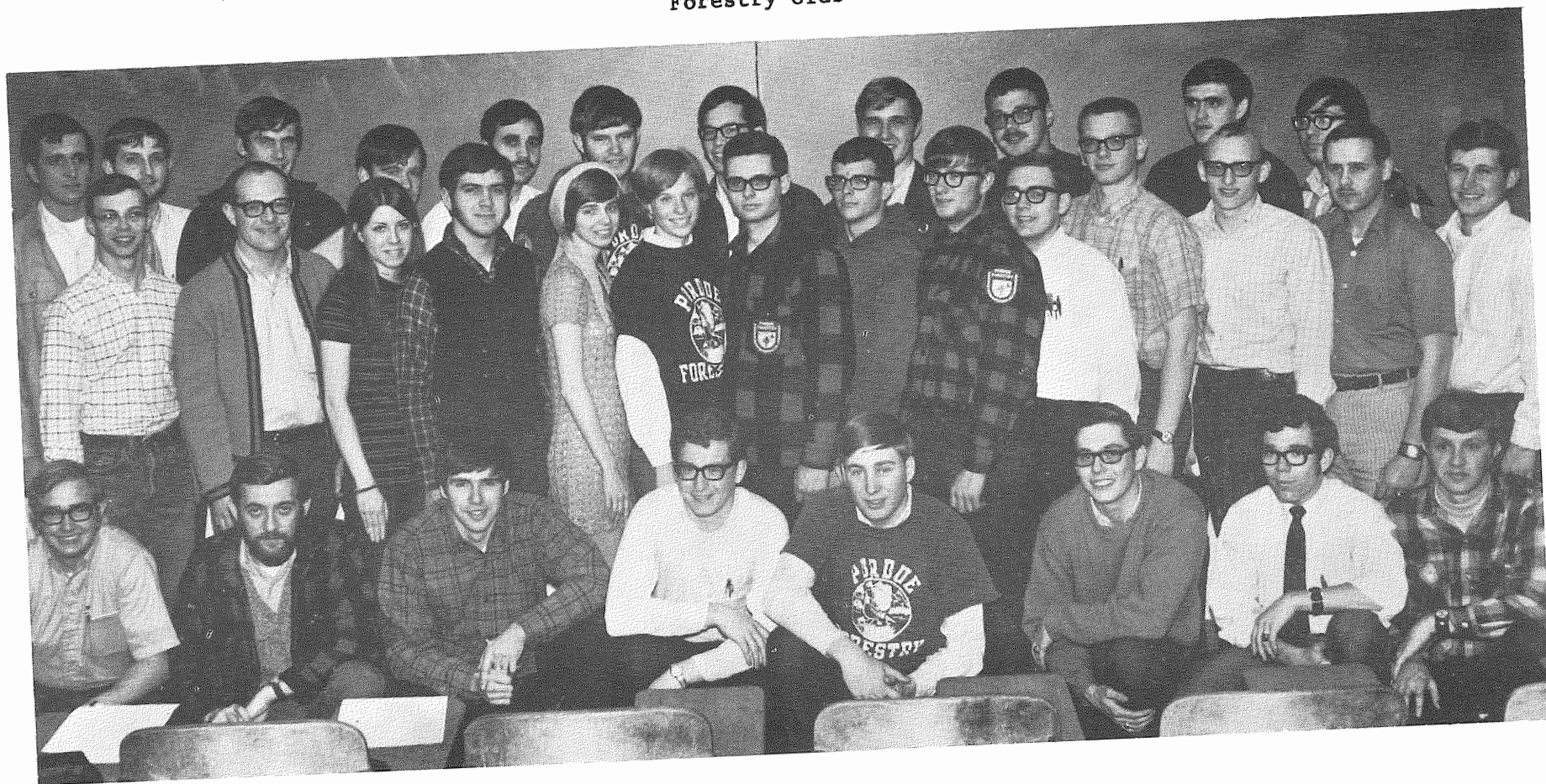
The purpose of the Forestry Club is to bring together students and faculty for good fellowship, and promoting forestry both within the Department and the University.

In fulfilling these goals, the past months have been highlighted with many interesting programs. Dr. W. C. Bramble spoke at the first meeting on "What Employers Want." John Keedy, a stockbroker from Merrill Lynch, Pierce, Fenner and Smith, informed the club on investment opportunities in the forest industries. On January 7, Kenneth Pomeroy, Chief Forester for the American Forestry Association, presented a talk on the activities of the association. "The Ecological Implications of Wildlands Management" was the topic of a panel discussion by Professors Michaud, Merritt and Kirkpatrick from the Forestry Department and Professor Quinn from Political Science. More recently, Leon Minckler, retired silviculturalist for the U.S.F.S., addressed the club on "Managing Forests for Human Needs: Are We On the Right Track?"

In addition to club meetings the foresters also participated in various other activities during the year. On the weekend of October 10-11 the Purdue foresters traveled to Michigan Tech. University for the Annual Mid-Western Foresters' Conclave. Although the team placed fourth in a field of eight teams the excitement of the competition and the autumn splendor of Northern Wisconsin and Michigan combined to make the weekend an exciting one. Thanks to a timber sale in McCormick's woods and a great demand for firewood the Forestry Club established a new record for firewood receipts to help support club activities. The Club once again took charge of the 37th Annual Forestry and Conservation Banquet which was attended by over 200 people. The main project now being tackled by the Club is next year's Mid-Western Conclave to be held here at Purdue in October. The event will be staged west of campus at the new 4-H Center where food and lodging will be provided for the visitors.

The Forestry Club fulfills a unique roll in the life of each forestry student. It gives him the opportunity to meet fellow students, faculty and guests and to become familiar with the practical problems confronting foresters today. More important it provides a place to gain leadership and express opinions in preparation for professional careers.

Forestry Club



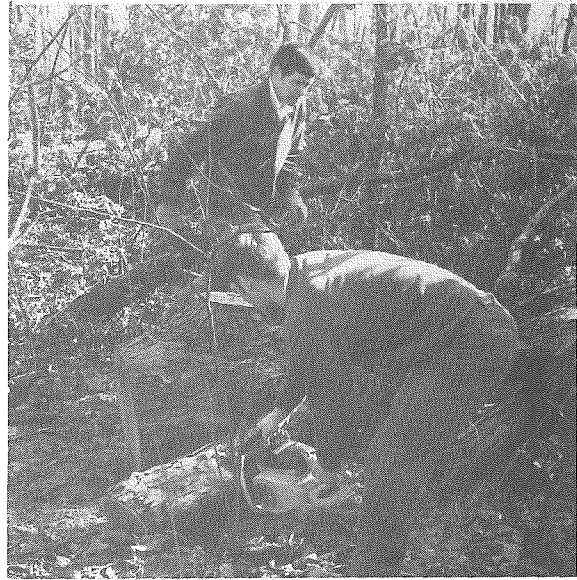
First row (1 to r): S. Bormann, D. Williams, L. Jones, J. Barnhart, B. Sparks, K. Stevens, K. Kirkman, and Schuerman.

Second Row (1 to r): D. Challis, W. Beineke, S. Bulmer, M. Lakin, A. Hadley, B. Deatline, M. Coggeshall, L. Snyder, D. McDill, R. Kummer, S. Winicker, D. Hirstein, D. Hammer, and H. Bruner.

Third Row (1 to r): G. Cavan, G. Juday, K. Evans, R. Moser, R. Bower, M. Hollingsworth, J. Vinke, G. Rausch, R. Denman, and D. Everage.



H. Bruner cuts firewood from a tree-top for L. Jones to stack.



B. Sparks and C. Stevens pile a rick of firewood as part of the multiple use of McCormick's Woods.

(From l to r) H. Michaud, M. Quinn, D. Knudson, C. Kirkpatrick and C. Merritt present differing viewpoints on "The Ecological Implications of Wildland Management," at a club meeting.



THE SPACE AGE AND FORESTRY

by Roger Hoffer

Associate Professor of Forestry and Conservation

We frequently think of the space age primarily in terms of powerful (and powerfully expensive) rockets blasting men to the moon. However, in the process of developing the technology to put man on the moon, there have also developed many other technologies. One of these is being researched and is starting to be applied to problems involving many of the earth sciences, including forestry. This technology is commonly known as "remote sensing" and can be very simply defined as "the acquisition of information about a portion of the earth's surface, utilizing instrument systems that are operated from a remote or distant location."

There are two major phases of remote sensing today. One is the operational use of remote sensing techniques, and the other is the research necessary to develop the technology. As foresters associated with Purdue University, we can be proud that Purdue has one of the foremost research organizations in remote sensing in the nation. This organization is known as the "Laboratory for Applications of Remote Sensing" or "LARS", and consists of a group of scientists and engineers from many different departments around the campus working together in a truly interdisciplinary effort to develop various remote sensing techniques. The Department of Forestry and Conservation has also developed the first course to be offered at Purdue which deals with remote sensing of natural resources.

In the research program in remote sensing at Purdue University being conducted by LARS, it is recognized that for many problems involving reconnaissance of our natural resources, large geographical areas are involved, and the data obtained in an overflight must be processed into useful information in a timely manner. Thus, the focus of much of the research has been on developing capabilities to use computers to process multispectral scanner data, producing "computerized maps" showing the type and condition of the vegetation or soil on the earth's surface. This work has been underway by LARS since 1966, and is sponsored by NASA and USDA. There are many, many potential applications for these techniques, such as forest type mapping, soil mapping, agricultural crop yield estimates, water pollution monitoring, and insect and disease surveys. For surveys that are now being conducted on the southern pine bark-beetle, automatic data processing techniques could be used to survey much more forest area, and include a larger percentage of the area being sampled. Much remains to be learned concerning the reflectance and emission characteristics of healthy and stressed vegetation, soil and other materials, as well as data processing and interpretation techniques. Due to the experimental success already demonstrated by LARS, this research program at Purdue has become recognized nationally and internationally by the people involved in remote sensing research.

With the sophisticated remote sensing instrumentation that is flying in aircraft and spacecraft, and with the research and teaching efforts devoted to developing various techniques and skills in data processing and interpretation, truly it can be said that the space age is having a definite impact on forestry at Purdue. The Department of Forestry and Conservation should be and is proud to be involved in this research !!

Professor and Mrs. Roy Brundage



FORESTRY AT PURDUE - 1930-1970

by

Roy C. Brundage

Associate Professor of Forestry and Conservation

Your editor has asked me to record a few comparisons about the forestry situation at Purdue and in Indiana as I found them in 1930, when I came here as a researcher, with those of today. One thing has not changed and that is the headquarters of the Forestry Department which is still in the Horticulture Building. Other things have changed greatly including the number of forestry staff members, number of students and the space allotted to the department.

In the fall of 1930 I made the fifth staff member, the others being B. N. Prentice, Head; instructors DenUyl and Geltz and T. E. Shaw, Extension Forester. Five students graduated that year and the total enrollment in the forestry option, the only one at that time was 40 men. This year there are 26 staff members, and a total enrollment of 355 in the Department.

Forestry courses in those days were designed to give a student basic skills in mensuration, seeding and planting, and surveying. Today's courses do not neglect these skills but include instruction in forest biometrics and dynamics of forest populations slanted towards to developing resource managers. Every forester in early years made a Biltmore stick, usually at summer camp, and then was given assignments to perfect its use (See Photo No. 1). Today the prism and diameter-tape have largely replaced the use of the Biltmore stick and calipers. Aerial photogrammetry has also reduced the courses in surveying, which in the thirties was a hallmark of a Purdue graduate. Most of the early graduate foresters went to public agencies since the newly purchased lands acquired for national and state forests were in need of boundary survey. The skill shown on these jobs and others often substantiated the slogan, "that a Purdue forester can do it better."

Jobs for foresters were particularly difficult to find in the early thirties. At that time, there were three technical foresters in the State Division of Forestry. Pay scales for forestry jobs those days were from \$1800 to \$2000 per year. Now the average beginning salary is approximately \$8000. While the \$8000 figure is more than many professors and department heads were getting in 1930 a comparison of student fees for the two periods serves to explain the differences:

Estimated Student Expenses Per Year (Indiana Residents)

	1930-31	1970-71
University fees	\$85	\$700
Books and supplies	30	150
Board and room	<u>230</u>	<u>1060</u>
	\$345	\$1910

In 1930, the forestry department had 1768 sq. ft. of floor space with all of it except an attic storage area located on the third floor in the west end of the Horticulture Building. The Department of Forestry and Conservation now is allotted 17,969 sq. feet of space for offices for 26 staff members and graduate students, teaching laboratories, et cetera.

Outdoor laboratory space in the early days consisted of woodlot areas on loan for mensuration courses, silviculture and simulated management, and the forest nursery at the end of Marsteller Street. Presently there are six tracts with a total of 680 acres within driving distance for class use.

The class in wood utilization had only to cross the Wabash to observe a sawmill typical of many in the state. It was owned by Jimmy Slain who not only permitted classes to measure and grade logs, study lumber, output, et cetera, but obligingly supplied logs for sawing and chopping contests with which the forestry department highlighted the entertainment sessions of Farmers Week at Purdue for several years.

Forest products marketing research in 1930 was a relatively new endeavor for a forester. Purdue, Penn State and possibly one other school received funds under the Congressional Purnell Act. It was a depression year and wood-using industries were at a low ebb. Two products were found to be moving, fuelwood and crossties. Fuelwood use in Indiana jumped to a level close to what it was in 1918 during World War I (See Photo # 2). At that time a cord of wood delivered in Lafayette brought \$3.00 per rick. Now fuelwood is a luxury item and consumption is about the same each year.

Crossties were another product marketable that year and so important was the income from this product that one producer down state remarked, "It doesn't make any difference to us whether the government is on a gold standard or not - around here we are on a crosstie standard."

Walnut presently is in great demand due to pressure from foreign markets. Indiana was then the biggest market for walnut as it is today. One difference in utilization is that in that period stumps were in great demand. Walnut trees with suitable stumps were dug out of the ground in order to utilize the maximum amount of wood.

Times have changed since the thirties, both for the Department of Forestry and Conservation, its staff, students and alumni, but one thing is certain-- the next forty years will probably see even greater change. Closer liaison has been built up with the wood-using industries since 1930, and several Purdue foresters are owners or in management positions. With their counsel and others, and with alertness to keep abreast of changing needs, the future should be a bright one for all affiliated with forestry at Purdue.

Postscript. In researching historical catalogs, I discovered that it has been my privilege to have known all staff members, who have taught forestry at Purdue. (Dean Stanley Coulter had retired before 1930, but continued to live in Lafayette and attend several professional meetings.) Also, I have had the pleasure of knowing a great many forestry students and following their careers after graduation. To this year's Forestry Club, I am most appreciative of the honor of having the annual banquet dedicated to me.



Photo No. 1: An early forest mensuration class utilizes their hand-made Biltmore sticks. Burr Prentice is in the rear center, R. Daris and K. Cook on the extreme left, L. Randall in the R.O.T.C. uniform and C. Swain on the extreme right. The other three men could not be identified.



Photo No. 2: This fuelwood from Tippecanoe County was a major product in 1930 and sold then for \$3.00 a rick.

Forestry and Conservation Banquet

by

Alan King

The 36th Annual Forestry and Conservation Banquet was held March 6 at The Trails. After a fine meal Master of Ceremonies, Alan King, introduced the guests at the head table who included President Hovde, Dean and Mrs. Kohls and Dean and Mrs. Hilst. Entertainment was provided before and after the meal by the "Last Resorts," a local barbershop quartet who combined some good old mountain music with fine barbershop harmony.

After the meal, Robert Herbst, National Executive Director of the Izaak Walton League, spoke on preservation of our natural resources and threats to our environment. Awards were then presented to the following people:

Xi Sigma Pi Scholarship Award	James N. Burroughs
Outstanding Camper Award	James M. Thompson
Special Merit Award (Forestry)	Larry M. Jones
Special Merit Award (Wildlife)	Ronald L. Bell
Special Merit Award (Conservation)	Charles L. Kennedy
Outstanding Senior Awards	Harold D. Bruner
	Frederick L. Trosky
Chase S. Osborn Wildlife Conservation Award	Homer K. Brenneman Executive Secretary Indiana Conservation Council

Roy Brundage, to whom the banquet was dedicated, was then presented with two awards to honor him for his 40 years of service to the Forestry Department.

Many thanks is due to the banquet chairman, Larry Jones, and his wife, Gretchen, who spent many hours of work in producing such a fine gathering. Among the veterans of Forestry and Conservation banquets the comment could be heard, "This was, without a doubt, the biggest and best Forestry banquet yet."



Chuck Kennedy
Ron Bell
Larry Jones

James Thompson
Fred Trosky
Harold Bruner



Dean Kohls
Homer Brenneman

WOOD RESEARCH LABORATORY

by

Fred Trosky

Some interesting research is now being conducted in the Purdue Wood Research Laboratory. In this article three such areas will be presented.

Dr. Robert H. Perkins is investigating the possibility of adapting cable and skyline systems of timber extraction now used in the west to the logging operations of the central states region. His immediate goal is to develop an "experimental lightweight cable system" that will be applicable to the central states both in capacity and in capital investment. He intends this system to supplement the conventional skidding systems in rough terrain where these systems are not practical and very often leave the land susceptible to erosion and streams susceptible to pollution. Dr. Perkins cites two reasons for researching this particular area: the increasing public pressure to protect the aesthetic qualities of woodlands during and after logging operations, and the increasing need for good watershed management and stream pollution abatement in the central states hardwoods region. Dr. Perkins plans to test this system on the proper terrain on departmental lands to determine its technical and economic feasibility.

Dr. Carl A. Eckelman is presently engaged in a broadly based project called "Engineering concepts of Furniture Design." Essentially, his work involves designing furniture as a bridge or aircraft is designed. Until now furniture was merely a form and, as Dr. Eckelman states, "has been produced in various forms for many centuries, but it has seldom been designed for what it is - a structure which must do a specific job of supporting a load." Because of the complexity of forces acting on a piece of furniture, he feels that a computer-based method of analysis of furniture is essential. After many years of work, "this phase has been completed, and the analysis, called CODOFF, Computer Design of Furniture Frames, is available," he said. From this analysis the loads on the pieces of furniture may be determined. With these loads known, an investigation is needed into the design of furniture joints which are able to withstand the forces which act upon them. Methods of determining the design values for these joints are now being devised by Dr. Eckelman. Dr. Eckelman's goal is to develop a system of furniture analysis which will allow the furniture manufacturers to provide furniture with certified, reliable estimates at quality. "Today, it is impossible to purchase a piece of furniture which has been certified structurally sound," he said. "And yet there is a real need for engineering of furniture."

Jan Alex Galezewski, a graduate student in wood utilization and the holder of a David Ross Fellowship is conducting research entitled "Multipurpose Utilization of Hardwood Bark through Chemical Modification." At the present time bark is either burned, used in agricultural applications as a fertilizer or mulch, or as a minor source of some chemicals. Alex states that, "it is the purpose of this research to open the way to the transformation of bark into an asset." He believes that the multipurpose utilization of bark includes the extraction and use of valuable chemicals contained in the bark and meaningful utilization of the fibrous material in bark in such applications as building boards and as a filler in other substances. Alex intends to determine the physical properties of the bark of these species of hardwoods and use this knowledge to propose and investigate new and exciting uses for the overwhelming amounts of bark which are not now utilized properly.

Dr. Eckelman (second from left) and his assistants examine the components of a chair as part of his work on the structural analysis and design of furniture.



Junior Class



First row (l to r): S. Brandsasse, J. Jacobs, V. Thorne, K. Kirkman, M. Dooley, S. Van Dielingen and D. Williams.
Second row (l to r): D. Gruell, J. Hunley, E. Miller, J. Thompson, B. Deatline, A. Hadley, P. Erler, R. Judd
M. Graham, J. Meece, J. Cooke, R. Moore and John Ross.
Third row (l to r): C. Wesson, D. Mann, T. Keilman, T. Johnson, F. Radloff, R. Hopwood, A. Richert, K. Evans,
J. Vinke, R. Denman, D. Bower, M. Hollingsworth, D. Bailey and Jim Ross.

Sophomore Class

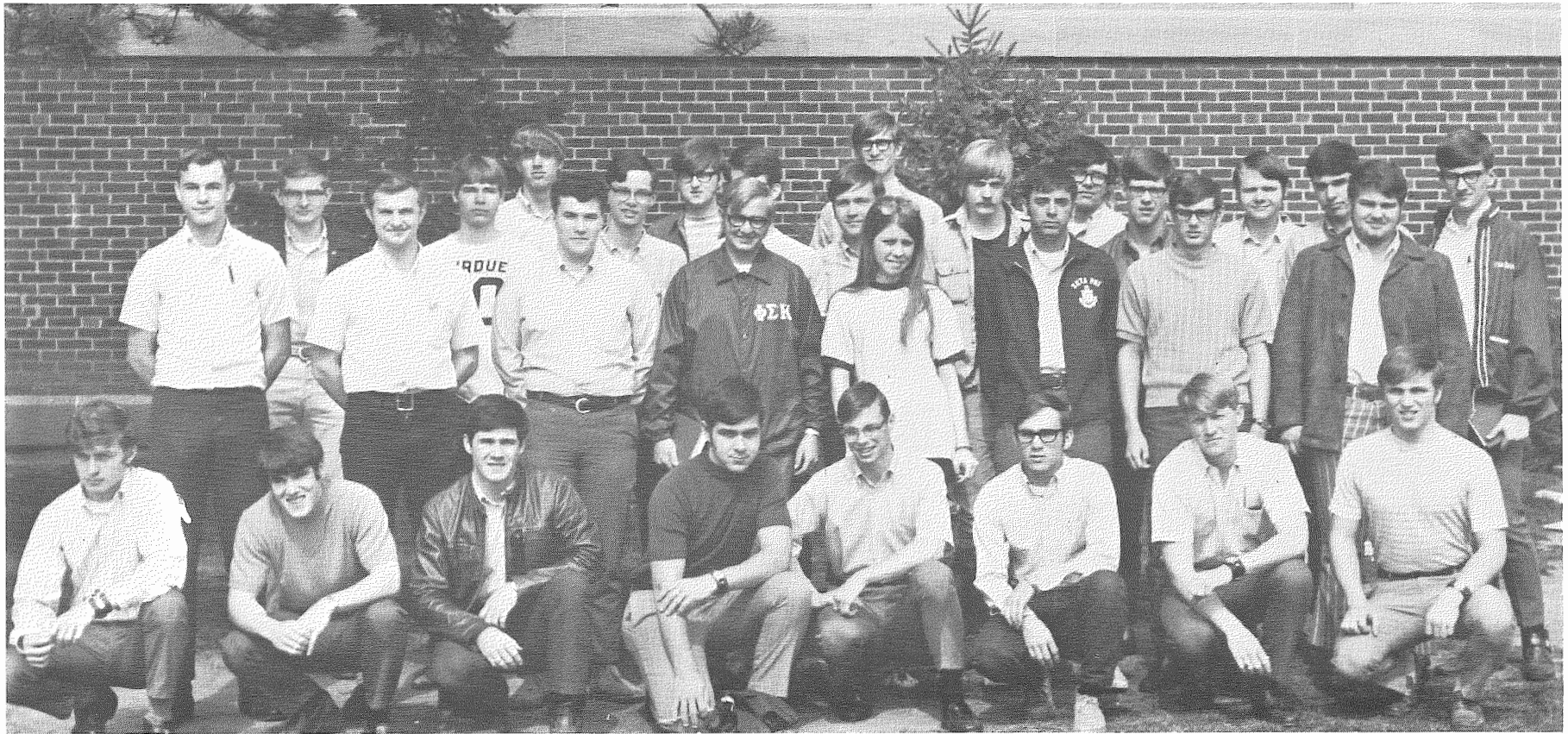


First row (l to r): T. Ricketts, J. McKain, S. Evertson, J. Thorne, B. Sparks, G. Yapp and J. Britton.

Second row (l to r): B. Spitler, A. King, J. Gall, J. Burroughs, P. Barker, D. Armbruster, D. Eklund, S. Winicker, J. Murray, R. Major, C. Stevens, D. McDill and S. Hart.

Third row (l to r): G. Juday, A. Saberniak, R. Weber, N. Hursh and T. Taylor.

Freshmen



First row (l to r): E. Rauch, M. Graham, D. Clark, M. Lakin, D. Challis, Unknown.

Second row (l to r): A. Royer, J. Berger, K. Wright, S. Bormann, S. Bulmer, T. Butler, T. Hewitt, Unknown.

Third row (l to r): H. Szafranski, G. Ross, J. Ringer, B. Thompson, M. Kranning, Unknown, D. Blann, Unknown, J. Cartmill and R. Rigsbee.

Fourth row (l to r): Unknown, B. Gooding, Unknown, J. Walpert, Unknown.

ALUMNI NEWS

- 1923 Everett J. Eliason has ended a 40-year career with his retirement as head of the Forest Research Unit, New York State Department of Conservation. He joined the New York Conservation Department in 1929 as assistant forest pathologist, serving 11 years at the Saratoga nursery. After war service, he advanced to supervising forester, assistant superintendent of nurseries and superintendent of nurseries; in the latter two positions he produced and distributed 450 million trees for planting in New York. In 1961 he became head of the research unit. Eliason has been a SAF member since 1931 and active within the New York Section; he is now on the National Seed Certification Committee. In 1949 he organized the first U. S. Forest Service Nursery Conference. He also established a "museum" at the Saratoga nursery depicting the progress of forest nursery practice during the past 60 years in New York State. He has 76 publications.
- 1931 William Medsey is retiring as President of Mesa Junior College in Grand Junction, Colorado where he has served the past ten years. On June 30 he will complete a 30-year career in higher education administration including serving as a college president for the past 14-years. While at Purdue he was a member of the first group to take its Forest Camp at Henryville, the summer of 1929. He has served with the U.S.F.S. on national forests in Tennessee, Virginia, West Virginia, Kentucky, New Hampshire and Maine. He would welcome letters from any of his classmates. He plans to visit the campus for the 40th reunion in 1971.
- 1931 Bill Curnutt writes that he retired in December of 1966. He spent 35 years with the Forest Service; the last ten years was spent in Roanoke as Forest Supervisor of the Jefferson National Forest. He believes the Lost Lake Summer Camp is a far cry from the 1929 camp at Henryville, Indiana.
- 1940 Dick Zweig, formerly Information and Education Staff Officer on the Daniel Boone National Forest transferred early in 1969 to Forest Service's Branch of State and Private Forestry in Atlanta, Georgia. He is a staff specialist in the Cooperative Forest Management Branch.
- 1944 Clinton Sowards has been representing a large wholesale nursery (Mt. Arbor - Shenandoah, Iowa). He sells to nurseries in Indiana, Ohio, Michigan, New York, Pennsylvania, Kentucky and Ontario.
- 1949 Richard Bonnell died sometime in March after being ill since last August. He was a section manager for Martin-Marietta Company of Orlando, Florida at the time of his death.
- 1950 Robert DeMoss a long time member of the Purdue football coaching staff accepted the position as head coach following Coach Mollenkopf's retirement.

- 1950 Francis (Pat) Hendricks, died of a heart attack November, 1968. At the time of his death he was Superintendent of Warehouse and Loading of the United States Gypsum Plant in Danville, Virginia.
- 1950 Ed Kalweit is an instructor in the Transmission Service School for the Allison Division, General Motors. About the only contact he has with forestry anymore is that on occasion he conducts transmission training on equipment used in logging (skidders, trucks, etc). He enjoyed the "Log" and is looking forward to the next issue.
- 1951 Charles Crail has been appointed Public Affairs Officer of the Kentucky-Tennessee Section of the Society of American Foresters. He is still on the Daniel Boone National Forest in the Recreation Section, Winchester, Kentucky.
- 1951 Theodore Curtin writes that his activities are essentially the same at the University of Illinois as they have been over the past several years. His extension chores has added an extra responsibility to his work; that of teaching the Farm Forestry course.
- 1951 Benjamin Schoby is employed by U. S. Army, Corps of Engineers Area Reservoir Manager for Mississinewa, Salamonie and Huntington Flood Control Reservoirs.
- 1952 Jack Maxwell writes Dr. Allen that he is now employed as Publications Editor with the Information-Education Division of the Department of Wildlife Conservation of the state of Oklahoma. He reports that he participated in an elk round-up at Wichita Mt. Refuge, and saw his first wild elk, his first armadillo and his first wild golden eagle.
- 1952 Scott Devers is now living in Lansing, Michigan. He is working for the state of Michigan, Department of Social Services as a Training and Employment Coordinator. He writes that it is very interesting and rewarding to help people help themselves.
- 1953 Bill Peterson writes that he enjoyed the new combination of Newsletter and Log and after reading the news on the Summer Camp decided he had been born 20 years too soon!
- He spent an enjoyable evening in Champaign visiting with Don and Nell Percival where he caught up on some of the news about his fellow grads.
- 1954 Donald J. Zurbriggen is now stationed in Ft. Wainwright, Alaska and will be leaving this August to attend a school in Washington prior to going overseas. He would like to hear from any of his classmates. The address is: LTC Donald J. Zurbriggen, 1049-1 Chena, APO Seattle.

- 1956 Randall Herberg is now manager of the Missouri Conservation Department's Rockwoods Reservation, an 1,800 acre conservation education center. Visitors number about 250,000 annually.
- 1958 Jim Whittaker is in his second year of academic life in Maine. He began the year with two graduate assistants, 18 new freshmen advisees, four independent study students and a freshmen recreation class of 32 students. He is also advisor to the Forestry Club, and is in charge of the summer job placement service. He remarks that he always wondered what college professors did with all of their spare time . . . now he knows!
- 1959 William C. Tilson writes that he has been in business for himself for one year as a manufacturer's representative covering the Midwest selling wood products; hardwood lumber, softwood lumber, veneers, hardwood flooring, particleboard, hardwood and softwood plywoods. His address is P. O. Box 50117, Indianapolis, Indiana 46250.
- 1960 Jim Rogers is now assigned to the White Mountain National Forest working in information and education. He received the Log and thoroughly enjoyed it.
- 1960 Dick Reid invites all the Purdue Crew to the national meeting of the SAF in Las Vegas this fall. The Intermountain Section is co-host this year and they guarantee a good show.
- He was recently elected Chairman of the Upper Snake River Valley Chapter of the Intermountain Section, SAF and he is finishing a term as President of the Idaho Falls Jaycees.
- 1962 Tod Kinerk is currently working on the land states project for the Shawnee National Forest along with an excellent conveyance clerk. They expect to complete the project this fall.
- 1963 Edward Carlile writes Professor Miller congratulating him on the "new" Log. He liked the combination of Log and Newsletter.
- Ed and his family vacationed a week with Fred Harnisch and his family in Alaska. They did a considerable amount of fishing and many fish were caught. Gary McCoy and Fred took him to the Naha River approximately 20 water miles north of Ketchikan to fish for Steelhead over a three day weekend. It was too cold for the Steelhead.
- He is now employed with Trans World Airlines as a flight engineer on the Boeing 707. They are living just outside Kansas City, Mo.
- 1963 Fred Harnisch sends "Greetings from the North"! Fred states there is another Purdue Forester in town - George Woodbury (1961) who is working for Ketchikan Pulp Company. He and George has been trying cross country skiing together, but this past winter lacked something -- snow! Ed Carlile and his family dropped up for a weeks stay in March along with Gary McCoy which made it quite a get-together. They spent most of the time fishing, beachcombing and seeing the town - brought in some halibut, Red snapper and a Dolly varden. Ed is coming back up in August for some salmon fishing.

Fred Harnisch - continued

On a trip to the "lower 48" this winter - they ran into Jack Wengert in Idaho working in Wallace for the U. S. Foest Service in timber; Jerry Hamilton in Indiana and Jerry ran into Roger Ward while flying to Indiana. Both Jerry and Roger are working for the U.S. Forest Service in Montana and Idaho; Dave Forville and family are in Indiana and Dave's going back with the Army flying choppers. While in Florida Dave met Lee Hotaling and had a good visit with him. Lee is finishing his masters at Yale and is also managing the Trapp Family Lodge in Vermont. He writes that it was a great trip and great to see all of the "crew" looking so good.

- 1964 Daniel McMahan is now a Captain in the Ordnance Corps of the U.S. Army. He just returned from a 2½ year tour in Southern Germany. He is married and has a son 2 years old and is presently on his way to Long Binh, Viet Nam for a combat tour.
- 1964 Jerry Reyburn was on campus on March 23, visiting with faculty and studying possibilities of Ph.D. work in conservation.
- Jerry is currently at Pennsylvania State University. He is assistant state 4-H leader, in charge of recreation, camping and conservation. He just finished coordinating a 4-H camp directors conference which will introduce ecological emphasis into Pennsylvania 4-H camps. He serves on the Program and Services committee for the National Recreation and Parks Association.
- 1965 Bruce Foltz is about 3/4th of the way through pilot training in the Air Force at Vance A.F.B. in Oklahoma. He talked to Larry Knauer some time in March and he was just about ready to graduate from Oregon State.
- 1966 Earl M. Underhill accepted a position with Hudson Pulp and Paper Corporation in Palatka, Florida. He is in their Wood Technical Services Department working with the implementation of thinnings and cuttings on a computerized schedule. He will be one of only sixteen foresters the company employs. He will be moving down just south of Jacksonville in June, the Navy willing.
- 1968 Ron Overton is now at Berkeley, California studying for his masters. Dr. Bramble heard from one of Ron's professors that he enjoyed having Ron as a student in forest genetics following a good preparation at Purdue.
- 1968 Steven Binkley is now in the service. His mailing address is:
1st Lt. Steven F. Binkley, Co. C 3/187 Inf., 101st ABN DIV APO
San Francisco 96383.
- 1968 Larry Knauer received his Master of Forestry degree in Forest engineering from Oregon State University in March, 1970. He is currently employed as a Logging Engineer for U. S. Plywood, Lebanon Division, in Lebanon, Oregon. He also has a son born March 31.

- 1969 Richard Richter for the last year has been working as a Technical Trainee at Bethlehem Steel's plant in Burns Harbor, Indiana, in Pollution Control and Water Process.
- 1969 Michael Tansy is now working for the Forest Service on the Willamette National Forest in Oregon. The forest is doing a study on volume lost due to tree defect and felling breakage. He contacts each of the seven districts and determines when cutting units will be in operation. The job is very interesting and he meets many people.
- 1969 Ted L. Wood is a soils analyst for Headquarters of the 79th Engineers Group, 20th Engineer Brigade. Headquarters is located on Long Binh Post about 23 miles northeast of Saigon near Ben Hoa. It is one of the best locations in Viet Nam. They have all the comforts of home and very little harassment from the VC. As a soils analyst, his job is to test soil samples for strength at various moisture and compaction levels. The results of these tests are used to design roads, bridges, airfields and highways. Most of his work is done in the soils lab.

DEPARTMENT NEWS

Professor Brundage met Mrs. Mansfield, who was in charge of the forestry library in the fifties, while out shopping. She had just returned from Florida where she had been visiting with her children and grandchildren. She had celebrated her 85th birthday and was as pleasant and charming as ever. Professor Brundage remarks that she doesn't look a day older than when she left here about 15 years ago. She sent her regards to all the "boys" and staff who remember her.

The Visiting Scientist program brought to our campus this year Dr. Leon S. Minckler, U. S. F. S. Retired Visiting Professor of Silviculture, Virginia Polytechnic Institute, Blacksburg, Virginia; Dr. Lawrence O. Safford of Banor, Maine who is with the North East Forest Experiment Station and Mr. William R. Sise a graduate student from Syracuse, New York who was a guest speaker at a seminar held on March 12.

Dr. John F. Moser was invited as a University participant to the U. S. Forest Service's In-service Workshop for Research on Growth of Mixed Hardwood Stands, Athens, Georgia, March 10-11, 1970.

Selected to represent Purdue University in a Symposium on the Development and Implementation of Courses and Curricula in Natural Resource Biometry, Colorado State University, April 20-24, 1970. This symposium was sponsored by the National Science Foundation.

Dr. W. R. Byrnes gave an invitational address on "Right-of-way Vegetation Control and Wildlife" at the West Virginia Weed Control Association, Charleston, West Virginia on March 24, 1970.

Dr. Byrnes also participated in the Short Course on "Fertilizer Technology and Use in Forestry" at the National Fertilizer Development Center, Muscle Shoals, Alabama, April 20-23, 1970.

Dr. John C. Callahan has been serving on the SAF Program Committee for the 1970 National Meeting to be held in Las Vegas, Nevada. He reports that the Committee has developed a stimulating program around a general theme entitled: Managing Environment.

A study of "Conservation Education Programs in the Secondary Schools of Indiana" by Professor Howard H. Michaud, Department of Forestry and Conservation, and Dr. L. R. Hilterbrand formerly with the Department of Education has been accepted for publication by the Journal of Environmental Education.

The study was made by a random sampling of 102 Indiana high schools to determine the extent of conservation education in the secondary schools. The areas of biology and vocational agriculture were found to include most conservation information. Some conservation was included in general science, economics, civics, social studies, and earth science.

Two significant changes were noted in comparing the results to a similar study in 1949. More schools were using areas as school land laboratories to conduct field studies in conservation and school administrators currently indicated a greater awareness for the need of conservation education.

The Conservation-Outdoor Education Association of Indiana Incorporated is a newly formed organization in the state. Its primary objective is to strengthen and promote conservation and outdoor education in Indiana. Anyone who holds membership in one or more local, state or national organizations whose purposes are similar to the objectives of the COEAI may become a member.

Professor H. H. Michaud, Department of Forestry and Conservation is Vice-President and Membership Chairman. Active membership dues are \$5.00 and all memberships received by July 11, 1970 will become charter members.

Professor H. C. Krauch, Jr., Extension Wildlife Specialist, presented a paper titled, The 4-H Wildlife Program in Indiana, to the extension wildlife specialists session at the Thirty-fifth North American Wildlife and Natural Resources Conference held in Chicago.

Dr. Robert H. Perkins attended a two day Forest Engineering Conference on Education that was held in conjunction with the winter meeting of the American Society of Agricultural Engineers which convened December 8, 1969 in Chicago. This conference brought together many qualified participants (foresters, engineers, and forest industry representatives) from a wide geographical area who explored and discussed the more important aspects of educational needs for forest engineering.

Dr. John Senft is on a 6 weeks tour in Brazil. He is assisting Professor James Collom in a survey of wood science needs for the Purdue Education Center at Vicosa.

Mr. M. O. Hunt was awarded his Ph.D. degree from North Carolina State University in January. His doctoral thesis was on "The Engineering Design of Particle Board."

Dr. S. K. Suddarth lectured on the application of mini-computers to the American Institute of Timber Construction in Atlanta in November and lectured on biomechanics of fracture repair at a southeast section meeting of the American Animal Hospital Association in January.

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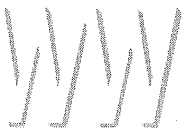
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