



The University of Wisconsin press bulletin.

Vol. 31, No. 4 Dec. 23, 1935

Madison, Wisconsin: University of Wisconsin, Dec. 23, 1935

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To Editor:—The news in this bulletin is prepared especially for the press, and is released for publication on the date below. Please address exchange copies to Editor, 711 Langdon Street.

THE UNIVERSITY OF WISCONSIN PRESS BULLETIN

The purpose of this Bulletin is to bring to the newspapers of Wisconsin and their readers—the people of the state—pertinent news and information concerning their State University. The University Press Bureau will gladly furnish any special news or feature stories to editors. Address letters to R. H. Foss, editor, Press Bureau, University of Wisconsin.

Published bi-weekly by the
University of Wisconsin

Entered as second class matter
Jan. 11, 1909, at the Post
office at Madison, Wisconsin,
under the act of July 4, 1894.

Release Monday, Dec. 23, 1935

MADISON, WISCONSIN

Vol. 31, No. 4

Free Fund Aids 870 Students In Extension Work

First Report On Scholarships Shows Wide Response By Unemployed

The state's offer of free tuition for University Extension courses for unemployed persons was accepted by 870 students in Wisconsin up to Dec. 1, Dean F. O. Holt reported to the State Industrial commission this week. His report showing the status of the fund to that date indicated also that further registrations will be taken until the fund is completely utilized.

"One of the significant accomplishments of the legislature of 1935," said Mr. Holt, "is the service made available to unemployed citizens of the state through offerings of the Extension division. The eagerness with which this service has been sought is evidenced by the number who have thus far taken advantage of the opportunity afforded."

The fund set up by the legislature for needy students was \$30,000.

The number of students under the fund according to the types of instruction chosen is shown as follows:

Milwaukee Center day classes, 41 students; Milwaukee evening classes, 328 students; correspondence study, 454 registrations; state classes, 47 registrations.

Correspondence-study registrations of unemployed have been accepted from every section of the state. Enrollments by unemployed in extension classes have been taken at Richland Center, Menomonie, Spooner, Eau Claire, Beloit, Green Bay, Kenosha, Elkhorn, Janesville, Sturgeon Bay, Racine, and Madison.

The free scholarship fund was created to assist unemployed persons without means to continue their education at home, thus making use of enforced leisure for constructive ends. It is described also as an attempt to help many to become better trained for their work or to re-train for a new occupation made necessary by changed conditions.

To qualify for free courses, a student must be certified to the Industrial commission by local relief officials as unemployed and unable to pay the prescribed fees, and by University Extension officials as capable of carrying a desired course.

U. W. Bureau Has Student Speakers Available for Clubs

With more than a dozen speakers and members of the University's debating teams available, the University of Wisconsin Student Speakers' bureau is ready to continue work inaugurated a year ago and fill speaking engagements in various parts of Wisconsin, it has been announced.

The bureau was started last year by the senior class as a means of furnishing various service clubs, women's clubs, and church and school groups with student speakers from the University campus. Although the bureau got under way late in the school year, 140 requests for speakers were received, 32 of which were filled.

Speakers may be obtained from the bureau merely by paying the bare expenses incurred by a speaker in filling an engagement. Subjects on which the speakers will talk this year range all the way from descriptions of travels in unusual places to discussions of complex problems in economics and philosophy.

Some of the subjects on which speakers can now be obtained are: Camping in the High Sierras, The School and the Church, Re-evaluation of the Constitution, Labor Conflicts, Tricks with Words, Glimpses of British Humor, Federal Incorporation, Today's News in Tomorrow's Newspapers, Hamilton Walks at Midnight, Getting Public Servants to Serve, Plato's Message for Modern Times, John Citizen Looks at His Banks, and Man and the Universe.

Members of the University's debating teams are also available for club programs, and will put on regular debates on any one of eight different subjects. Both men's and women's debating teams are available to fill speaking engagements.

Regents Adopt Budget for Summer School

A budget totaling \$126,003.87 for the 1936 summer session of the University of Wisconsin was approved by the State University board of regents recently.

The total budget figure for next year's summer session represents an increase of about \$7,000 over last year's budget. Pres. Frank told the board, but is nearly \$4,000 less than the total income of the summer session last year. Adoption of the budget makes it possible for the University to plan one of its finest summer sessions for next summer.

The regents also appropriated \$1,900 from miscellaneous capital funds for the purchase of books for the Law school library, made necessary by the huge increase of students in the Law school during the past few years, and the need for new editions of legal volumes.

Porter Butts, director of the Wisconsin Memorial Union at the University of Wisconsin, has been named to the jury of selection for the first annual Big Ten art exhibit to be held at the University of Iowa next April and May.

New 190-Acre Gift Makes U. W. Arboretum Largest in World

A gift of 190 acres of land has been made to the University of Wisconsin arboretum, wild life refuge, and forest experiment preserve by Louis Gardner, well-known Madison business man, it was announced by M. E. McCaffrey, member of the University's arboretum committee and secretary of the board of regents.

The gift raises the total number of acres now included in the arboretum tract to nearly 800 acres of land on Lake Wingra, just outside the city of Madison. The new land adjoins the present tract on the south and east, including land on both sides of the fish hatchery road south of the city. It extends to within less than two miles of the State Capitol.

Conduct Conservation Experiments. Addition of the new land to the arboretum gives the University and the state one of the world's largest outdoor laboratories for carrying on experimental work on problems of reforestation and the propagation of wild life.

Both reforestation and the propagation of wild life are extremely important to Wisconsin, which must constantly look after its reputation as vacation ground and recreational center for the mid-west. In line with this idea, development of the area has been pushed forward rapidly during the past few years.

Plant 15,000 Trees

More than 15,000 pine and spruce trees have been planted in the tract, which at present is the home of more than 12 species of game birds and 22

species of mammals. These are expected to be increased rapidly in the future, since the particular kinds of foods and cover needed by each species has been greatly improved. A roadway through the arboretum has also been built, and barracks and experimental laboratories have been constructed.

The arboretum not only provides the state with a huge outdoor laboratory in which to carry on experimental work on forestry and wild life propagation problems, but is also useful as a demonstration ground in teaching land owners of the state, especially farmers, the technique of conserving wild game and making marginal lands useful as hunting preserves.

U. W. Men Give Aid

The arboretum was established three years ago through the efforts of University officials and public-spirited Wisconsin citizens. Originally consisting of less than 200 acres, it has grown rapidly during the past two years as citizens throughout the state became more and more interested in the project.

Two University faculty members, Professors Aldo Leopold and G. W. Longenecker, are respectively research director and executive director of the arboretum, and many members of the University faculty who are interested in conservation of the state's natural resources have aided in the development of the arboretum. A C.C.C. camp is now stationed in the arboretum and is doing excellent work in its development.

Diesel Engine Course Offered for Home Study

A new course on Diesel engines has been added to the home-study courses in mechanical engineering offered by the University of Wisconsin Extension division, it was announced this week.

The course is designed especially for those desiring to obtain the fundamental instruction, through the correspondence-study method, for an understanding of the constructional and operating features of the Diesel engine. It is described as of a semi-technical nature, suitable for supplementing practical work in the shop, in the power plant, or on the road, and for garage and automobile mechanics to supplement their knowledge of and experience with Otto cycle engines.

The course, in 20 assignments, is available to qualified students in Wisconsin and other states.

More Than 500 Attend U. W. Institute Held At Wisconsin Rapids

With a crowd estimated at more than 500 persons attending, the first institute of the 1935-36 winter season, sponsored by the school for workers in industry at the University of Wisconsin, was held in Wisconsin Rapids early this month. Plans for the institute were made by Miss Alice Shoemaker, executive secretary of the school, in cooperation with local officials.

Several State University faculty members took part in the institute program. They included Lloyd K. Garrison, dean of the Law school, who explained the federal government's new labor relations law, and Harold M. Groves, professor of economics, who spoke on social security and taxation.

Others who participated in the program included Mayor William T. Nobles, of Wisconsin Rapids; C. E. Jackson, manager of the Consolidated Water Power and Paper company; Hugh W. Goggins, district attorney; William E. Sanderson, vice-president of the National Cooperatives and former secretary of the Farmers' Union; Walter Uphoff, Madison; the Rev. Frederick W. Hyslop, H. G. Bunde, city attorney; and Miss Shoemaker, who spoke briefly on the function of workers' education in training far-sighted and intelligent leadership for the labor movement.

One of the features of the institute was a large exhibit of union-made articles, including stoves, clothing, and paper products, which are made and sold in Wisconsin Rapids.

Zona Gale Named to U. W. Visitors' Board

Mrs. Zona Gale Breese, Portage, graduate of the University of Wisconsin with the class of 1895 and nationally known literary figure, was named to the State University's board of visitors by the board of regents recently. Mrs. Breese is the first appointment to the visitors' board made by the regents since the system of making such appointments was changed by the regents early last spring. Under the new system of appointments to the board of visitors, regent appointees are decreased from four to three; while alumni appointees are increased from four to six members.

HONOR FAMOUS U. W. MAN

The Tufts Alumni Council, representing graduates of Tufts College at Medford, Massachusetts, is planning a memorial to the late Stephen M. Babcock, an alumnus of that institution. Dr. Babcock did his noted research work at the University of Wisconsin with which he was connected for 43 years.

Farmers Buy Less When Income Drops Recent Study Shows

Ways in which farmers can and do adjust their farm operations when prices fall, is revealed in an analysis of farm studies made in one Wisconsin county, results of which are published in a recent circular now available to farmers of Wisconsin.

The study, made in La Crosse county, reveals that much of the reduction in farm expenses needed to meet a declining farm income, are reflected in the purchases which the farmer makes over a rather wide range of commodities. Less money was spent for labor, paint, lumber, fertilizer, fencing, machinery and equipment. Likewise the low incomes of the last few years have forced a much greater dependence on the farm itself as a source of food for the family, the study revealed.

Copies of the bulletin entitled "How Farmers Adjust When Prices Fall," may be obtained by writing to the Agricultural Experiment Station, Madison, Wisconsin.

Farm Horse Needs Revealed in Recent Wisconsin Circular

That Wisconsin farmers continue to rely upon horses for farm work purposes and that nearly twenty thousand head of horses have been brought into the state annually during the last five years to supply that need, is revealed in a circular, "Horses for the Farm," recently issued by the University of Wisconsin college of agriculture.

To assist farmers and horse breeders in their program of catching up on work horse demands, timely suggestions on all phases of horse breeding, feeding, care and training are given in the circular, which is now available and may be obtained free by residents of Wisconsin. Copy may be obtained by writing direct to the University college of agriculture, Madison, explains K. L. Hatch, associate director of the state's agricultural extension forces.

Appoint Adviser to Aid Students With Funds

The new office of Student Financial Adviser was created by the University of Wisconsin board of regents recently and Ray L. Hilsenrath, University accountant for nearly 10 years, was named to the position. The regents also appropriated funds to inaugurate the new office which is expected to be entirely self-supporting after it is started. The office will handle accounting and budgeting for about 80 student activities. It is compulsory for all student activities except fraternities and sororities, which may use it if they desire to do so.

Green County Man to Direct Crop Work for Erosion Control

Frank V. Burcalow, Green county, has been appointed assistant extension agronomist at the University of Wisconsin college of agriculture to work in cooperation with the soil conservation service of the United States department of agriculture. Burcalow, a graduate of the agricultural course at the University of Wisconsin, will work with the staffs in charge of soil conservation camps in southwestern Wisconsin, assisting farmers to plan crops for areas subject to losses through erosion.

Marathon HomeWorker Accepts Position in Rural Settlement Plan

Miss Edith Bangham, home demonstration agent in Marathon county, has been appointed as associate director in charge of home management of the Wisconsin rural resettlement administration. Miss Bangham, who is well known throughout the state for her work among rural groups, will have her headquarters at Madison. She is being succeeded by Miss Helen Pearson, a graduate of the home economics course at the University of Wisconsin in 1921. Miss Pearson during the past eight years has served as home demonstration agent in Frederick county, Maryland.

15 in Newspaper Work Before Entering School of Journalism at U. W.

Practical newspaper experience before entering college is reported by at least 15 of the incoming freshmen in the school of journalism of the University of Wisconsin this fall.

Ten report that they have worked on the following Wisconsin newspapers: the Vernon County Broadcaster of Viroqua, the Cambridge News, the Kaukauna Times, the Delavan Enterprise, the Delavan Republican, the Pepin Herald, the Wisconsin State Journal of Madison, the Janesville Gazette, the Milwaukee Journal, and the Wisconsin News of Milwaukee.

Among the out-of-state students, one has worked on the Afro-American News of Baltimore, one on the Glens Falls, N. Y., Times, one on the Brooklyn, N. Y., Times Union, and one was

U. Men Use Models of Plaster to Test Building Strengths

Engineers Develop New Means of Measuring Structural Strengths

Use of small plaster models in testing the strength of everything from small machine parts to tall skyscrapers and other huge structures built by man is seen as a result of investigations carried on by faculty members of the college of mechanics and engineering at the University of Wisconsin.

Results of the investigations, which may play an important part in making huge construction projects of the future safer for mankind's use, are contained in a bulletin of the State University's engineering experiment station. The investigations were carried on by Raymond J. Roark, professor of mechanics, and Richard S. Hartenberg, instructor in mechanics, at the University.

Is Pioneering Work

The pioneering investigations carried on by these men comprised selection of suitable model material, development of satisfactory technique for making and testing models and specimens, comparison of the mechanical properties of the model material with those of various structural materials, and finally comparison of tests on fairly complicated structures with tests on models of them to ascertain the accuracy and reliability of the plaster model method of strength prediction.

A grade of commercial gypsum plaster known as number one moulding plaster was adopted as the model material and a good deal of experimentation was required to develop a technique that made possible the reproduction in plaster of complicated structures, especially castings of irregular form, the bulletin reveals. A special testing machine had also to be designed and built for the purpose of testing models and model materials.

Had to Compare Results

In order to ascertain the practicality of strength prediction by the use of models, the investigators had to compare the results of tests on structures of some complexity with the results of tests on corresponding plaster models, it was explained.

The bulletin reviews the various procedures which engineers use in investigating the strength of an actual or proposed structure, and points out that all of the present methods are subject to certain limitations or disadvantages.

"The best way to ascertain the strength of a structure is to test the structure itself, or a duplicate, to failure, under conditions as nearly as possible identical with those of service," the authors explain in their bulletin. "This is usually difficult and expensive and often impracticable, and as a substitute measure, the test of a scale model, made of some weaker and more easily fabricated material, such as plaster, suggests itself."

Method Has Advantages

"It would appear that if a plaster model method of strength prediction could be perfected, it would have potentially certain distinct advantages over mathematical analysis and over other experimental methods," the bulletin continues.

"Such a method is applicable to structures of any form and size; it takes into account both the intensity of stress and the circumstances under which it occurs; it shows both the method of failure and the load required to produce it, and infallibly discovers the weak point in the design; it permits, by virtue of the easily worked material used, repeated tests on progressively varied designs, directed toward greater strength or greater economy; and finally, it is a method that requires relatively little laboratory equipment, and one which can be carried through in a short time and at little cost."

U. W. Student Wins Rhodes Scholarship

Although he has had to work his way through the University of Wisconsin by tutoring students, Philip Kaiser, Madison graduate student, succeeded in reaching such a high scholastic standard that he has been chosen winner of one of the prized Rhodes scholarships in regional competitions held recently in Chicago.

Rhodes scholarships provide about \$2,000 a year for two or three years of study at Oxford university in England. Only 32 Rhodes scholars are chosen from the entire United States each year—four from each of eight divisions. In his division, Kaiser competed for the prized scholarship with representative schools in five other states—Michigan, Illinois, Indiana, Ohio, and Kentucky.

By winning one of the scholarships, Kaiser becomes the 20th University of Wisconsin graduate to do so since 1904, when the scholarships were established. Although the state has not had a chance of entering competition for the valued scholarships every year since 1904, the State University has been represented at Oxford university almost continuously since that time, because out of a possible 23 Rhodes scholarships available to Wisconsin citizens, 20 have now been won by State University graduates.

copy boy in the New York Herald-Tribune office. One young man has been doing free lance sports writing for a number of newspapers.