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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.

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Bray Chosen Head Of High School Forensics Group

Ft. Atkinson Educator Named Chairman of Board For Speech Arts

Frank C. Bray, superintendent of schools of Fort Atkinson, was elected chairman of the board of the Wisconsin High School Forensic association at the recent annual meeting. Mr. Bray, who has long served as chairman for the Whitewater district, succeeds Prin. George J. Balzer, of Washington high school, Milwaukee, who refused re-election after a long incumbency. Mr. Balzer was re-elected chairman for the Milwaukee district.

The board of control approved the holding of three speech institutes this fall. With the tentative dates they are as follows: Chippewa Falls, November 23-24; Stevens Point 7-8; Madison, December 14-15. It is proposed to incorporate in the institute programs, besides instruction in the usual speech fields, the University of Wisconsin debate on the federal aids question.

Dates Are Selected

Schedules for contests in all branches of forensics were adopted. The place for the dramatic contests will be decided by the competing schools. If such schools cannot agree upon the place and date, the chairman will decide. The state debate will be held in the state capitol on March 22. The state forensic contests will be held in Madison on May 9 and 10.

The constitutional amendment providing that the declamatory contest shall be of two types—humorous and non-humorous—was adopted, and now becomes a part of the constitution.

New Reading Plan

Ralph Dennis presented a plan for a reading contest with all participants reading the same selection—one of literary value and not more than four minutes in length. It was voted to submit to a referendum of member schools a provision for such a contest in reading.

The association's membership on November 14 was 212 high schools, as compared with 182 on the same date last year.

U. Uses X-Rays in Study of Minerals

Help Industries to Identify Minerals Positively

X-rays are by no means limited to use in medical research at the University of Wisconsin, but have also been found to be of great aid in the study of minerals, according to Robert B. McCormick, who is conducting research in the department of mineralogy at the State University.

For the past eight years experiments along the line of X-ray photographs of minerals have yielded valuable guidance in the positive identification of minerals. In experimenting with minerals and taking photographs, it was found that the atoms and planes of atoms which form the mineral, would reflect the X-rays just as a mirror will reflect sunlight. It has also been found that atoms of different minerals are of different sizes and that various combinations of atoms when subjected to X-rays will produce definite sets of reflections in the forms of spots or lines on a photographic film. Because of the wide variations in patterns as made by the X-ray reflections, it has been possible to identify each mineral positively by its X-ray photograph.

At the State University mineralogy laboratory, there is a collection of more than 1,200 different patterns of various minerals. Each day this work is carried on under the direction of McCormick, in an effort to learn more about the study of mineralogy. The value of the work has led commercial chemical plants and allied industries to send minerals to the University laboratory from all parts of the world for positive identification.

U. W. Committee on Courses Is Named

Names of the seven members of the University of Wisconsin committee on courses, which will work with the deans of the various colleges in studying all proposals for the establishment of new courses of study at the State University in the future, were announced by Pres. Glenn Frank recently.

The committee was provided for by faculty legislation passed last spring, with the faculties of the separate University divisions electing their own representatives on the committee this fall. Members of the committee are Professors H. C. Jackson, R. E. N. Dodge, E. B. Skinner, C. E. Ragsdale, Edward Bennett, William G. Rice, and W. E. Sullivan.

One of the first considerations of the committee will be the proposal for the establishment of a new general integrated course for freshmen or sophomores which will present problems and explain forces in the three fields of sociology, economics, and political science.

Two heavy boots, one weighing five pounds three ounces and the other four pounds six ounces, recently taken from a foreign fugitive from justice, are on exhibition in the state historical museum at the University of Wisconsin. With various pieces of leather fastened to soles, heels, and uppers, the bulky boots were the property of a man obsessed with the idea that his shoes were going to wear out.

Pure Bred Wisconsin Grains to Be Shown at International Exhibit

Undaunted by an unfavorable season, grain growers of Wisconsin will exhibit displays of pure bred grains for which Wisconsin has become widely known at the 16th International Hay and Grain Show in Chicago.

Although fire ruined the old exhibit building, a new and larger one will house the coming exposition to be held December 1 to 8. This is the announcement of E. D. Holden of the agronomy department of the University of Wisconsin, who is assistant secretary of the Wisconsin Agricultural Experiment association, which each year exhibits Wisconsin forage crops in this annual display. Cash awards totalling more than \$5,000 are offered in the contest.

Wisconsin #38 barley, the new smooth-awned variety developed by agronomists at the University of Wisconsin, was one of five farm crops placed in the crops "Hall of Fame" at a recent honorary display at the International Show.

High School Editors to Play as Well as Work at U. W. Meet

Since all work and no play would make any conference dull, Grant M. Hyde, professor of journalism who is in charge of the program for the Wisconsin High School Editors' conference to be held at the University of Wisconsin Nov. 30 and Dec. 1, has planned a varied program for this year's meeting.

One of the high-lights of the conference will be the annual "Stunt Banquet" to be held on Friday night, Nov. 30. At this banquet delegates from many schools will present skits, dialogues, recitations, one-act sketches, and musical numbers for the entertainment of their fellow delegates. Prizes will be given for the best presentations.

Either immediately before or right after the banquet, a reception will be held in honor of the delegates. The faculty of the school of journalism, members of Sigma Delta Chi national honorary professional journalistic fraternity; members of Theta Sigma Phi, national honorary journalistic sorority; and members of Coranto, women's journalistic group at the University, will act as hosts at the reception.

Members of the three journalism groups on the campus will also act as guides on conducted campus tours for the school editors and business managers. They will be given an opportunity to help put out a special edition of The Daily Cardinal, student newspaper at the University, for which reports of the various roundtables will be written by the high school delegates.

RED WAGON HAULS TEAM AGAIN

Even though the University of Wisconsin football team is not "bringing home the bacon" when it comes to winning gridiron contests this year, student spirit has run so high that the "old red wagon" has been dragged out of hiding and, repainted a brilliant red, has been used to convey the varsity to the railroad station, with students furnishing the motive power. Several send-offs for the team have been held this fall, with several thousand students taking part. The wagon was last used in

Fish Food Content of Wisconsin Lake Is Increased 22%

Successful Research of U. W. Scientists Solves State Conservation Problem

The fish food content of one of northern Wisconsin's lakes was increased 22 per cent last summer by the spreading of ordinary farm fertilizers in its waters, the annual progress report of the cooperative investigations of Wisconsin lakes, made public today, has revealed.

The cooperative investigations of Wisconsin's lakes and streams are supported jointly by the U. S. bureau of fisheries, the Wisconsin conservation department, the Wisconsin Alumni Research foundation, and T. E. Brittingham, Jr. University of Wisconsin scientists who are in charge of the work are Dr. E. A. Birge, 84-year-old Wisconsin scientist and president emeritus of the University, and Dr. Chancey Juday, professor of limnology.

Many Lakes Lack Food

Success of the fertilization experiments on Weber lake in Vilas county, which is only one phase of the research being conducted by the cooperative lake investigations, solves one of Wisconsin's major conservation problems—that of increasing the food content of lakes sufficiently to take care of their finny populations.

Earlier research conducted by the University scientists has revealed that many Wisconsin lakes do not have sufficient natural food for the fish swimming in their waters, even when some of the lakes are known to be understocked. Constant stocking of such lakes, however, would be useless because of this lack of food, which would either cause many of the fish to die of starvation, or so retard their growth that it would be many years before they would attain legal size.

The only answer to this problem was to increase the food content of the lakes by fertilization of the waters. Started by the Wisconsin scientists in 1932 in Weber lake, these fertilization experiments are the first to be carried on in any large lake in the country.

Add Farm Fertilizers

During the summer of 1932, some 700 pounds of superphosphate were spread in this lake, but there was no great increase in the growth of the algae, from which fish derive much food. In the summer of 1933, the experiments were renewed, with both superphosphate and lime being added, which resulted in only a moderate increase in the algae growth.

During the past summer, a third fertilizer, ammonium sulphate, was added, the cost of spreading all three in the lake amounting to about \$1.25 per acre of lake surface. The result was an increase in the fish food content of the lake of 22 per cent over 1933, the report reveals.

The attempt to increase the fish food content of Badger lakes and streams between lakes by the addition of fertilizers to the water is one of the important newer phases of conservation work in Wisconsin, which, because of its reputation as the recreational center and summer playground of the middlewest, must always look after its natural fish and lake resources.

1920 to transport the team to the station, and since that time has been parked away in Camp Randall barracks.

New U. W. Bulletin, Telling How to Care for Car in Winter and How to Select Oil, Gasoline, Saves Motorists Money

How to care for your automobile during late fall and winter months, not only to obtain best possible cold weather performance but also to protect its motor against the more or less damaging effects of winter driving, is told in a new bulletin just published by the engineering experiment station at the University of Wisconsin.

Entitled "Oil and Gasoline Information for Motorists," the bulletin is written in popular style so that the automobile owner who has no knowledge whatever of technical motor oil and gasoline terms may easily understand it.

Grover C. Wilson, assistant professor of steam and gas engineering at the State University is author of the bulletin, which may be purchased from the University Editor at Madison for 25 cents in cash or stamps to help pay for part of the cost of printing the bulletin.

Information is Valuable

In the 160 pages of the bulletin, which contain results of research carried on in spare time during the past six years by Prof. Wilson and others, are found answers to winter and summer problems of the motorist, as well as to questions concerning the selection of gasoline and oil. Because there are so many different grades of gasoline and oil on the market, this latter information is considered valuable to every car owner.

By taking the proper precautions, any motorist can save himself the annoyance and inconvenience of having a car that is hard to start during cold weather, the bulletin declares. In preparing a car for winter service, the first consideration should be to get rid of any accumulation of water in either the fuel or lubricating system. The carburetor should be thoroughly cleaned and the oil should be drained from the crankcase. The transmis-

sion and differential lubricant should also be changed.

Recommends Winter Oils

A good grade of winter oil should be put in the crankcase, the bulletin maintains. This oil should have a low cold test well below zero, for this test shows the temperature at which an oil solidifies and becomes grease. The oil should have a high viscosity-index, that is, it should be "light", with less resistance to motion. An oil with a viscosity-index of near 100 should give satisfactory results, since such an oil will furnish easy starting and yet not thin out excessively at fairly high temperatures.

For outdoor temperatures down to zero, oil station attendants should be asked for 20-W oil, while for temperatures down to 15 degrees below zero, 10-W oil should be asked for. For lower temperatures dilution from the motor will make starting easier, but if the motorist finds it necessary to change oil during an extreme cold spell, he should add up to 10 per cent kerosene to the oil. Adding of kerosene is an expedient to be resorted to only in case of changing oil during extreme cold weather, but is not recommended as general practice. It is best to change oil during mild spells when the accumulation of diluent in the crankcase will solve the starting problem.

Don't Race Motor

The motorist should never race a cold motor, the bulletin warns, nor drive fast until the oil has had a chance to warm sufficiently to become a good lubricant. Care in handling the motor during the critical warming period in cold weather will greatly increase the length of time between overhaul and repair periods.

The knack of starting a cold motor is largely made up of attention to little details, the bulletin explains. The

12 U. W. Students of Agriculture Enter National Essay Contest

Twelve Wisconsin farm boys, students at the University of Wisconsin, are entered in the National Saddle and Sirloln club essay contest which is held in connection with the International Live Stock Exposition at Chicago, December 1 to 8. The contest is open to all undergraduates of American agricultural colleges.

Essays have been entered by: Nie-man H. Hoveland, Cottage Grove, Dane county; Lyle Molstad, Sparta, Monroe county; Henry Haferbecker, Appleton, Outagamie county; J. F. Bradley, Franksville, Racine county; William E. Doyle, Mendota, Dane county; J. F. Schinagl, Chicago, Illinois; Arthur J. Kelley, Menomonie, Dunn county; D. D. Nusbaum, Park Falls, Price county; J. M. Bond, Milwaukee, Milwaukee county; R. C. Storey, Deerfield, Dane county; Herman Dettwiler, Verona, Dane county; and Leo P. Keegan, Monroe, Green county. The subject of the essay this year is "Meat Consumption and Modern Human Welfare".

8 U. W. Students Named on State's Stock Judging Team

Eight University of Wisconsin students make up the squad from which the Wisconsin Intercollegiate stock judging team will be selected to compete against other agricultural college teams at the International Live Stock exposition, December 1 to 8 at Chicago.

On the squad are: Edward Preslik, Hillsboro, Vernon county; Robert Galligan, Ashland, Ashland county; Edward Mathwig, Wautoma, Waushara county; Marshall Gafke, Oregon, Dane county; Donald Morrissey, Arena, Iowa county; Leo Dick, Marshfield, Wood county; Pat Keegan, Monroe, Green county; and Henry Haferbecker, Appleton, Outagamie county. John M. Fargo of the University animal husbandry department is the coach.

1935 State Farm-Home Week Meeting to Be Held at U. W. February 4-8

The 1935 Wisconsin Farmers and Homemakers Week at the University of Wisconsin college of agriculture will take place February 4 to 8, according to an announcement by K. L. Hatch of the planning committee. Meetings of the several state livestock breeders' associations, the Wisconsin experiment association, the State Grain Show and the Little International Live Stock Show are expected to be held in conjunction with the regular farm and home program.

7 U. W. Agriculture Students Are Honored

Scholastic ability and leadership in agriculture have won for seven University of Wisconsin students election to Alpha Zeta, honorary agricultural fraternity. Students in the University agricultural college whose outstanding records have made their election possible include: Alvin Alton, Linden, Iowa county; Robert Barter, Harvard, Illinois; Robert Galligan and Leonard Josephson, Ashland, Ashland county; Roger Johnson, Stoughton, Dane county; Carl Simonson, Milwaukee, Milwaukee county; and William Young, Union Grove, Racine county.

Badger Student Groups Attend Rural Life Meet

Celebrate 25th Anniversary of Rural Life Movement at Washington Meet

Groups of students from several Wisconsin state teachers' colleges and the University of Wisconsin, interested in rural life and living, attended the American Country Life conference just held at Washington, D. C. The association this year celebrated the 25th anniversary of the foundation of the country life commission by former President Theodore Roosevelt.

Delegates to the conference from the state teachers' colleges were Doris Bruce, representing the rural life club, Eau Claire; Kathleen Dwyer and Vernon Richter of the 4H leadership club, La Crosse; Clarence Beyreis, the rural life club, Milwaukee; Mary McDonald and Ada Parath, the Alpha Chi club, Oshkosh; Chester Dolan, the Blue Shield Country Life club, and Orlin Rudy, the 3C club, Platteville; and Robert Neale, the Rural Life club, Stevens Point.

Representing rural life organizations at the University of Wisconsin were Olav Anderson and Cora Thomas, of the Blue Shield Country Life club; Marguerite Groh, the University 4H club, and Stanly Hore and Agnes Boynton, representing the department of rural sociology. E. L. Kirkpatrick of the State University's rural sociology department, was chairman of the Student Advisory committee, and accompanied the delegates to the convention.

Among the topics brought up for discussion at the student section of the conference were those pertaining to rural rehabilitation, the work of the AAA and CCC and the planning of agriculture in relation to industry. The topic of the national conference related to national planning and rural life.

300 to Attend Editors' Meeting

High School Editors to Help Lead Discussions at U. W. Meeting

Delegates from each of the Wisconsin high schools will help lead the discussions at the various roundtable meetings which make up the program of the annual Wisconsin High School Editors' conference to be held at the University of Wisconsin on the two days following Thanksgiving, Nov. 30 and Dec. 1.

About 300 state high school newspaper and yearbook editors and business managers and their faculty advisers are expected to attend the conference, which each year is sponsored by the State University's school of journalism. A number of innovations will feature this year's program, which will center its attack on the depression problems facing school newspaper and yearbook editors and business managers.

Experts in both school newspaper and yearbook fields will give informational talks to the delegates and their advisers at the various roundtable meetings. These talks will be followed by discussions, with delegates from one high school helping to lead the discussion at one roundtable, and delegates from another school taking a leading part at another meeting.

Other features of this year's conference will be a state-wide exhibit of Wisconsin student newspapers, magazines, and yearbooks; roundtables on the special problems of mimeographed newspapers; a two-hour roundtable meeting for advisers; a vocational guidance in journalism roundtable; a reception before or after the annual banquet; conducted campus tours; and talks by Charles Bernhard, executive editor of The Daily Cardinal, University student newspaper, and Edmund J. Bachowski, business manager.

Newspaper editors and business managers will listen to round-table talks on news writing, news sources, headlines, make-up, copy-reading, proof-reading, type display, sports news, special features, circulation, advertising, and promotion, while yearbook editors and business managers will have roundtables on layouts and art work, preparing specifications for the printer and engraver, photographs in the yearbook, and financing the yearbook by sales, advertisements, and other means.

State Teachers Ask Place On Air for Education

Wisconsin school teachers at their annual convention in Milwaukee recently went on record as favoring the establishment of a national policy which would assure the development of radio in the true public interest.

By resolution it was declared, "we reaffirm our support of the general idea of education in radio, and support the demand which the organized agencies of education, culture and morality throughout the nation are making for the right of clear and unlimited broadcasting channels by government, education, and religion through non-profit broadcasting stations."

The teachers commended the work being done by WHA and WLBL, the Wisconsin state-owned stations, in providing a broadcasting service of high informational, educational and cultural programs adopted to children and youths of the home and school, and to adult citizens generally.