

FARM PRODUCTS SHOW EXCEEDS FORMER YEARS

The fifth and largest Farm Products Show, which was held in Harrisburg last week, easily surpassed all the others both in size and in the quality of the exhibits shown.

The educational exhibits this year were more practical than ever before and more adapted to the show.

Most of the commercial exhibitors made their displays a selling exhibit and arranged for their dealers to bring prospective buyers to Harrisburg at this time.

EXHIBIT SHOWN BY PENN STATE MISSION TO CHINA

A very interesting exhibit was held in the Overland and Emerson Buildings at Harrisburg last week under the auspices of the Penn State Missions of China.

The exhibit used the stereomograph to great advantage at Harrisburg. This machine illustrated the work which is being carried on in China by Messrs. Groff and Wertheimer.

HEALTH SERVICE GIVES REPORT ON TREATMENTS

Since the opening of college in September there has been a total of 1745 calls at the Health Service and of these 385 were made in January.

TRUSTEES LENGTHEN THE SUMMER SESSION

The movement for a bigger and better Penn State was pushed along last week by the action of the Board of Trustees when they decided to make provision for a nine week Summer Session instead of the six week session now in effect.

The State Department of Public Instruction will honor the credits received in the nine week courses, so that some of the subjects to be placed on the permanent state certificate will be passed by the department on credit.

SENIOR GIRLS ENTERTAIN FACULTY AND ALUMNI

The women students of the Senior class entertained the faculty and alumni at a formal reception in the Woman's Building parlors, Thursday evening.

HARRISBURG ALUMNI HOLD MID-WINTER DINNER

The Annual Mid-Winter Dinner of the Harrisburg Penn State Alumni Association was held January 27th at 7:30 p. m. in the Penn-Harris Hotel at Harrisburg.

Mr. J. W. Fortenbaugh '12, presided as toastmaster and called upon Miss M. A. Knight, Dean of Women, as the first speaker.

Dean R. L. Watts '30, Dean of the School of Agriculture outlined the work of the alumni in advancing the interests of the college and Mr. Sullivan, Secretary of the Alumni Association, expressed his appreciation for the loyal and effective support of the Harrisburg Alumni Association.

POP LOHMAN HAS DUNHILL'S PIPES

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emphasized the fact that there is a great demand for American college type of education in China.

THESEPIANS ISSUE CALL FOR MANAGERSHIP CANDIDATES

Shortly after the selection by the Thespians Club of the musical comedy that will be its first production of the year, comes the announcement that the dramatic society will hold trials next Tuesday evening for Freshmen candidates for second assistant managers.

WRIGLEYS advertisement with image of a pack of cigarettes and text: 'We eat too fast—we eat too much. Eat less—chew it more. WRIGLEYS after every meal—cleans the mouth and teeth and sweetens breath.'

VARSITY STORE advertisement listing various goods: SODAS, CIGARS, CIGARETTES, DRUGS, STATIONERY, TOILET ARTICLES. Contact: WILBUR F. LEITZEL.

THE BON MOT advertisement for candy and confections: 'HOT AND COLD DRINKS, Candy and Confections, Reymer's and Charter Chocolates. Opposite Bush House, Bellefonte, Pa.'

REGISTRAR AT WORK ON SEMESTER REPORTS

An announcement that will no doubt be of interest to the student body in general in regard to the reporting of failures for the first semester has been made by the Registrar.

Do You Like to Ride? IF SO Join the Boalsburg Machine Gun Troop. THOSE INTERESTED SEE CAPT. CHAS. E. SOHL, BOALSBURG, PA. Lt. Joe W. Etter, Lt. Wm. H. Payne, A. T. O.

The College Man's Shop advertisement: 'Furnishings, Merchant Tailor, Cleaning, Pressing, Repairing. H. W. SAUERS, ROBISON BLOCK.'

COAL advertisement: 'Bituminous, excellent quality for domestic or heating purposes, at a saving in price. J. N. BASTRESS, Call Bell Phone 65.'

OUR SPECIALTY HOME-MADE Pies and Cakes Penn State Bakery advertisement.

The Pennsylvania State College advertisement: 'Established and maintained by the joint action of the United States Government and the Commonwealth of Pennsylvania. FIVE GREAT SCHOOLS—Agriculture, Engineering, Liberal Arts, Mining, and Natural Science, offering Bachelor's and Master's degrees in various fields. First semester begins middle of September; second semester the first of February; Summer Session for Teachers about the third Monday in June of each year.'

How is a Wireless Message Received? EVERY incandescent lamp has a filament. Mount a metal plate on a wire in the lamp near the filament. A current leaps the space between the filament and the plate when the filament glows. Edison first observed this phenomenon in 1883. Hence it was called the "Edison effect". Scientists long studied the "effect" but they could not explain it satisfactorily. Now, after years of experimenting with Crookes tubes, X-ray tubes and radium, it is known that the current that leaps across is a stream of "electrons"—exceedingly minute particles negatively charged with electricity. These electrons play an important part in wireless communication. When a wire grid is interposed between the filament and the plate and charged positively, the plate is aided in drawing electrons across; but when the grid is charged negatively it drives back the electrons. A very small charge applied to the grid, as small as that received from a feeble wireless wave, is enough to vary the electron stream. So the grid in the tube enables a faint wireless impulse to control the very much greater amount of energy in the flow of electrons, and so radio signals too weak to be perceived by other means become perceptible by the effects that they produce. Just as the movement of a throttle controls a great locomotive in motion, so a wireless wave, by means of the grid, affects the powerful electron stream. All this followed from studying the mysterious "Edison effect"—a purely scientific discovery. No one can foresee what results will follow from research in pure science. Sooner or later the world must benefit practically from the discovery of new facts. For this reason the Research Laboratories of the General Electric Company are concerned as much with investigations in pure science as they are with the improvement of industrial processes and products. They, too, have studied the "Edison effect" scientifically. The result has been a new form of electron tube, known as the "pliotron", a type of X-ray tube free from the vagaries of the old tube; and the "kennon", which is called by electrical engineers a "rectifier" because it has the property of changing an alternating into a direct current. All these improvements followed because the Research Laboratories try to discover the "how" of things. Pure science always justifies itself. General Electric Company, Schenectady, N.Y.