

SECY BAKER'S SPEECH PLEASES VAST ASSEMBLAGE

(Continued from first page)

knows about the main subjects of liberal learning to have a generous and appreciative attitude toward knowledge in general.

"It is a curious proof of the power of these academic ideals that most of our colleges have been obliged to establish compulsory forms of physical exercise in order to prevent our young men from neglecting their bodies."

"One problem in all the vast and hurried preparation of the faculty and students presented itself with peculiar force, the selection and training of officers. In ordered series of ranks its organization reaches down from the supreme commander to the private. The final responsibility of authority rests in the supreme commander, but his plans must be intelligently carried out, and so in the varying ranks there must be men trained to understand and trained to execute the several parts of the task which are distributed. They must be men whose characters command respect, whose minds and bodies are disciplined, and who in the hour of emergency can grasp the details of complex situations and make accurate decisions in the interest of the safety and success of those entrusted to their care."

In answer to the belief that the R. O. T. C. is an attempt to foster military spirit among younger Americans, Secretary Baker asserts that "We are not seeking to encourage a military spirit by introducing elements of military training into colleges. Indeed, those who know most about war are those who most earnestly seek to avoid it—only the ignorant or the wicked could light-heartedly seek to embark their nation in war under modern conditions—but we are seeking by the establishment of the Reserve Officers' Training Corps to give a great body of young men a basis upon which

can be built capacity for command and leadership should a national emergency require their service."

"The R. O. T. C. movement has grown steadily. At the close of the academic year 1920 there were 208 senior units having a total enrollment of 43,538 students; and 126 junior units having an enrollment of 41,777 students, and these were assigned to the training of these units more than 400 officers."

"Through the medium of the R. O. T. C. in public high schools, Secretary Baker says that foreign born boys receive their greatest development and stimulation of patriotism, good citizenship, and physical improvement. It is Americanization of the best form and has generally been accorded the hearty support and encouragement of the various boards of Education and the general public."

"The reactions of the R. O. T. C. upon the army at large will prove decidedly beneficial, and it will be found that the officers returning to duty with troops after a four-year college tour are much improved in their instructional methods and knowledge of how to teach young soldiers. The officers at these schools and colleges have opportunities far beyond those which come to officers of equal rank with troops. They have heavy responsibilities of an administrative and executive character. They are called upon to adjust themselves to other interests and to exercise tact, diplomacy, and authority to a degree that does not come normally to regimental officers with troops in time of peace. In their association with the faculty members they are brought into close contact with men of culture and high education, and association which can not but prove stimulation. In teaching college men they are handling the best and highest type of American manhood and are required to exert their best efforts in order to appear to advantage. The scientific and laboratory facilities provided at the institutions, particularly in the engineering and technical departments, offer an opportunity for the development of improved methods of instruction. The units of the different arms in the institution are placed in positions of relative comparison with another. In the eyes of the faculty and students, and this unconsciously stimulates the respective officers to improve and enrich their courses. In the large land-grant institutions, where the enrollment is upwards of 1,500 students and where there are four or more different units, the senior officers duties are more difficult of successful fulfillment than would be the case were he commanding an Army brigade in time of peace. Officers of conspicuous ability and of high military accomplishments are needed to effectively develop and direct such military departments."

It is worthy of note that the educational system of education at many of these institutions affords opportunity for familiarizing the future leaders of our nation with the benefits of military training.

Secretary Baker went on to explain that there was likewise a great need for trained men to fill the commissioned ranks in the lower grades. He says "It is expected that the principal source of such procurement in the future will be found in the R. O. T. C. The year 1920 is the first in which an appreciable number of students has completed the advanced course and the requisite

number of camps to make them eligible for commissions in the Reserve Corps.

"It is thought that probably 5,000 represents the maximum figure which the R. O. T. C. may be expected to annually provide. Assuming that the usefulness of these so commissioned will on the average continue for about ten years, it becomes evident that this rate of production must be constantly maintained. The R. O. T. C. has only been in active operation about three years, and as yet not enough students have completed the prescribed course to provide reserve officers in any number approximate the above figure. It is hoped to obtain this year about three hundred. This number will materially increase each year until the maximum figure is reached."

"Recent legislation definitely fixes the status of officers of Reserve Corps and it is thought that a considerable number of the 1920 graduates will apply for and be granted commissions. In June, 1920, 932 students completed the advanced course, and of these, 483 are considered eligible for commissions."

"The R. O. T. C. while in the third year of its existence, has exhibited an excellent year this last that in the future it can but increase in its beneficial scope. It has increased in favor with both students and the educational authorities. A high standard of student esprit and morale has developed in many institutions and constant efforts are made to support and increase this spirit wherever the units are in operation."

"It is required that every student who enters the R. O. T. C. be subjected to a rigid physical examination and this has resulted in many cases in revealing physical defects of which the student was either ignorant, or to which he had remained indifferent. The early correction of such defects and the appreciation of their seriousness has thus been made possible. At Penn State, as it is at many other institutions where military training is compulsory, the first two years, the work with the upperclassmen is purely voluntary. Over one hundred students took up the advanced R. O. T. C. work last year and about thirty profited by the summer camp at Camp Devens, Massachusetts. In regards to those who cease training after the first two years, Secretary Baker says: "A young man who completes but two years training is not qualified to receive commission and although his experience should constitute something of an asset to the country for national defense, it is, nevertheless, not a fulfillment of the purpose of the R. O. T. C. The course of the student through the R. O. T. C. has three distinct stages before he is passed into the Reserve Corps, and the success of the system as a means of officer procurement of

the Reserve Corps must be largely judged by the number who elect to continue their affiliation to the logical end.

"The one phase of the R. O. T. C. curriculum which elicits probably the greatest degree of interest from the student body is that connected with summer training camps. For the American man and boy there is something fascinating in the idea of going under canvas; of getting away for a while from the softer side and of getting into the elemental atmosphere of our life. It is inspiring evidence of our national hardiness and a state of mind deserving of the most sympathetic consideration. This desire for contact with the great out-of-doors lends itself most effectively to the needs of the broader military training possible to accomplish only when those to be instructed can be separated from the distracting interests of every day affairs and placed in an environment calculated to bring their mental and physical energies to bear upon the business in hand to the desirable degree."

"It is fundamentally important that the student be separated from the soldier, partake of his hardships, and get to know his problems and their solutions, in order that there may be formed in the students' minds a correct attitude toward these things and a lively conception of duty and a sense of comradeship which are the elements that cement the members of a military body and make it strong."

"The results attained have given ample reason for the belief that the system is fundamentally sound as a peace time measure for the training and procurement of prospective personnel for the Officers Reserve Corps."

"The R. O. T. C. at the Pennsylvania State College is, therefore, part of a national-wide activity. Students from this institution who enter the Reserve, with commissions as officers, will find themselves members of a company gathered from all over the nation who stand ready and are trained to serve should an emergency arise. In addition to that, they will find that something has been added by this training to their general equipment. The mind often takes its color from the habits of the body; skill of finger, deftness of touch, speed in running, strength of arms, are all qualities upon which the mind leans to rely and from which it acquires characteristics in its own operations. The experience of the great colleges in this country which have maintained R. O. T. C. units shows that the men who participate in the military activities are most successful as students, perhaps because a disciplined mind and a more confident intellectual operation is the natural accompaniment of a disciplined body."

"As the years go by, and the list of Reserve officers increases, we see one of our national problems being answered. The officers will be ready should the emergency come. Meanwhile, the men who constitute that safeguarding force will be pressing on in their various business activities, vocation, vicarious, and avocations, and the discipline and experience which their training for the national service will have added to their education."

MINING NOTES.

H. B. Northrup, Associate Professor of Metallurgy, has resigned to accept a position with the Diamond Chain Company of Indianapolis.

C. A. Bonine, Associate Professor of Geology, has returned from Wyoming, where he was employed as an oil geologist by a Washington company. He left on a leave of absence the latter part of last semester to work in cooperation with the U. S. Geological Survey and later took up the work with the oil company.

Dean Moore attended the Annual Meeting of the American Society of Mining Engineers, which was held in the Lake Superior District from August twelfth to the twenty-eighth. The delegates traveled in a private train through the iron and copper regions of Michigan and the neighboring states. The leading article in the Engineering and Mining Journal for August twenty-eighth was from the pen of Edward S. Moore, Dean of the School of Mines. The article entitled "Ore Deposits in Arctic Canada" contained data personally collected by the Dean while in the Hudson Bay country of far northwestern Canada near the Arctic Circle.

C. J. Campbell, a graduate of Syracuse, and S. J. Hudness of the University of Kentucky have been appointed teaching fellows in Geology and Mineralogy, and J. S. Callahan, Penn State 1920, is a new teaching fellow in Metallurgy.

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CIVIL ENGINEERING NOTES

Raymond O'Donnell, Assistant Professor of Civil Engineering has returned from a leave of absence granted last year during which he was employed as a Sanitary Engineer by the Pennsylvania State Department of Health.

W. W. Patchell, Instructor in Civil Engineering, has been granted a leave of absence by the College and will take up the duties of Assistant to the Division Engineer of the Conemaugh Division of the Pennsylvania railroad.

The Civil Engineering Summer school which was held near Lamar, Pennsylvania the early part of the summer was considered very successful by Professor Walker. The camp started late on account of the nonarrival of some necessary equipment, but notwithstanding this handicap the work was completed in the scheduled time. Sixty-one students, eight instructors, two cooks, and the small son of one of the chefs made up the personnel of the camp.

ENG. EXPERIMENT STATION OPERATES THIS SUMMER

The Engineering Experiment Station has been running with a full complement of workers throughout the summer. Investigations were continued in heat transmission through insulating and building materials. During the summer Dean John A. Allen of the United States Bureau of Mines spent several days at the College and conferred with Professor Wood on work now being undertaken jointly by the American Society of Heating and Ventilating Engineers and the College Engineering Experiment Station.

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