

willingness to be helpful in any other way possible what should we as a club do about it? I would suggest that the entire body of officers and members should patronize the pro for lessons and equipment whenever necessary if they wish such a man to remain long at their club and be rewarded for his spirit, his ability and his effort."

## Penn State Gives Details of 1932 Short Course and Conference

**P**ENNSYLVANIA State College will hold its annual Greenkeeper's Short Course, Feb. 1-26, and Conference, Feb. 24-26, at State College, Pa. This work was entered upon four years ago with a great deal of misgiving on the part of the faculty.

The need of such instruction was recognized but whether many greenkeepers would be responsive was the question. The first meeting proved that such fears were groundless. Greenkeepers turned out in large numbers. They entered into the spirit of the conference.

A committee of greenkeepers representing the different sections of the state is appointed each year at the conference. This committee meets with the faculty committee and offers suggestions for the annual conference and research programs. In this manner the topics selected for discussion are those problems which the greenkeepers themselves feel are the most pressing.

The conference program for the February meeting is built around the insect and disease identification and control problems. The past season in Pennsylvania has proven that this is the time when such a program would be extremely helpful. Other topics will also be considered to avoid presenting a narrow program.

The usual four weeks greenkeeper's short course is again being offered. In conducting this course as well as the conference a number of men on the staff are used. In this way those taking the work come in contact with several highly trained specialists. Each of these men attempt to present those phases of his work which will be of use to those interested in fine turf problems.

A fine turf grass man who has both practical experience and scientific information in his field has a marked advantage over men who lack one or the other of these qualifications. This nation will be passing through a readjustment period for several years following the present finan-

cial crisis. During this period many old methods will have to be discarded, expenditures will have to be cut way down. The man who is well versed in the fundamentals will make fewer mistakes than the man who lacks such information. Greenkeepers, appreciating this condition, are enrolling for the greenkeeping courses.

The fourth annual Greenkeepers' Conference, Dr. Austin L. Patrick, chairman, should be of value to all persons interested in turf management, including superintendents of golf courses, parks, and large estates, as well as green-chairmen.

The program:

Wednesday a. m.—

9:00—Registration.

10:00—Welcome, Dean R. L. Watts.

10:10—The Research Program, S. W. Fletcher, Director of Research.

10:40—Report of the Pennsylvania Fine Turf Research Committee, Joseph Valentine, Chairman.

11:00—Observations on Golf Course Problems in Pennsylvania, 1931, N. Schmitz.

Wednesday p. m.

2:00—Diagnosis and Treatment of Turf Grass Diseases, A. S. Dahl and H. W. Thurston.

Thursday—Protecting Turf from Insects and Other Pests.

Morning session beginning at—

8:30—General Discussion and Description of Insects (illustrated), L. B. Smith.

Moles, Earthworms, and Slugs, L. E. Dills.

Insects Affecting Fine Turf (illustrated). Description, life histories, habits, and damage which they cause, L. B. Smith.

Afternoon session beginning at—

1:30—Insecticides: Description, Methods of Preparation and Use—H. E. Hodgkiss.

Discussion of Various Control Methods Recommended as a Means of Preventing Damage by Various Insects and Pests, L. B. Smith.

Question Box. (A discussion of individual problems.)

Friday a. m.—General Soil Relationship to Fine Turf Grass Problems.

8:30—Soil Solution, F. G. Merkle.

Soil Treatment and Grass Growth: Effect of Mercury Compounds and Lead Arsenate, J. W. White.

Effect of Acidity, H. B. Musser, J. W. White.

Details of enrollment may be secured from Dean of the School of Agriculture, State College, Pa.