

## Penn State Greens Course Now On; Conference Begins Feb. 24

**PENN STATE** College's third annual greenkeepers' short course is now in session. Begun on Feb. 1, the course will last four weeks until Feb. 24, at which time the students will join with interested golf course, park and estate superintendents, green-chairmen and other persons interested in turf management in Penn State's fourth annual 3-day Greenkeepers' Conference.

The conference, Feb. 24-26, is designed specifically for green-committee chairmen, greenkeepers and others interested in the latest developments of fine turf management. The program for the sessions, outlined below, has been prepared by a joint committee composed of Pennsylvania greenkeepers and representatives of the school of agriculture of Penn State.

The conference program follows:

### *Wednesday A. M., Feb. 24*

- 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  
.....Nickolas Schmitz

### *Wednesday P. M., Feb. 24*

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

### *Thursday A. M., Feb. 25*

#### *Protecting Turf from Insects and Other Pests*

- 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

### *Thursday P. M., Feb. 25*

- 1:30—Insecticides: Description, Meth-  
ods 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

### *Friday A. M., Feb. 26*

#### *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

No limit is placed on the number who can attend the conference, and rooms and meals may be obtained on the campus at the Nittany Lion Inn: rates, \$6.00 per day, single, and \$5.00 per day, double. Other hotels nearby offer rates to meet any requirements.

Golf clubs in the eastern sector are urged by GOLFDOM to send their greenkeepers to this conference at club expense, to be charged up to grounds budget. No better investment can be made. Green-chairmen, too, can profit by attending the three-day sessions.

## Minnesota U. to Have Short Course Feb. 15-17

**UNIVERSITY** of Minnesota Extension Division will conduct a short course for greenkeepers, February 15, 16 and 17, at St. Paul. This short course is sponsored by the Minnesota Assn. of Greenkeepers.

The program:

### *February 15.*

Registration.  
Address of Welcome and General Announcements—Mr. Price, Chief, Ext. Div., Univ. of Minn.

*Fundamentals in Preparing Soils for Greens Construction*—O. J. Noer, Milwaukee.

*Grasses for Greens*—John Montieith, Jr., USGA Green Section.

*Peat Problems on the Golf Course*—Prof. Frederick J. Alway, Chief Div. Soils, U. of M.

*Use of Power Mowers vs. Hand Mowers on Greens*—Jacobsen Power Mower Co. and Toro Mfg. Co.

*Practical Maintenance of Greens*—Discussion led by Emil Picha, Midland Hills G. C.

*Control of Grub Worms*—Herbert L. Parten, Entomologist, U. of M.

*USGA Experimental Plots*—Harold Stodola, Keller G. C.

### *February 16.*

*Golf Course Irrigation and Drainage*—Harry B. Roe, Prof. Agric. Engineering, U. of M.

*Soil Characteristics in Relation to Golf Courses*—Clayton O. Rost, Assoc. Prof. of Soils, U. of M.

*Fairway Grasses*—John Montieth, Jr.

*Trees for Golf Courses*—Edward G. Cheyney, Prof. of Forestry, U. of M.

*Control of Gophers and Other Rodents*—Herbert L. Parten, Extension Entomologist.

*Plant Diseases and Their Control*—John Montieth, Jr.

*Weed Control through Chemicals*—A. C. Army, Assoc. Agronomist, U. of M.

Report of Nat'l Greenkeepers' Assn. Convention delegates of Minnesota Greenkeepers' Assn.

February 17.

*Mechanical Equipment for Golf Course Maintenance*—A. F. Moyer, Chief Eng., Toro Mfg. Co.

*Engine Driven Mowers for Fairways*—R. S. Kinkead, Chief Eng., National Mower Co.

*Landscape Architecture on Golf Courses*—Lewis Longley, Asst. Prof. of Horticulture, U. of M.

*Golf Course Architecture*—Paul N. Coates, Ramsay County Eng.

*Analysis of Public Golf Costs and Revenue*—Paul N. Coates, Ramsay County Eng.

*Recent Developments in Golf Course Maintenance*—John Montieth, Jr. (round table discussion).

Harold Stodola, Sec., Minn. Greenkeepers Assn., at the Keller Golf Course, 516 Aldine St., St. Paul, Minn., will furnish complete details to interested greenkeepers, pros and club officials.

## Rutgers' Short Course Program Is Announced

**R**UTGERS University College of Agriculture will hold its fourth annual Short Course in Turf Management Feb. 22-26. The program of the course, as announced by Prof. F. G. Helyar, director, is well rounded and will give attending students an excellent survey of the latest developments in the science of turf management.

The course is open to residents of the U. S. over 18 years of age. Other than a registration fee of \$5.00 and a \$1.00 fee for lecture outlines, there is no tuition. The work will consist of lectures and discussions, with laboratory demonstrations where possible. Enrollment is limited to 20 persons.

The program is as follows:

### Monday

Modern turf management.....

.....Dean J. G. Lipman  
Soil types and plant growth. Prof. L. L. Lee  
Soil Physics—Structure, aeration, moisture supply, etc.....Dr. J. S. Joffee  
Drainage—Natural and artificial.....

.....Prof. E. R. Gross

### Tuesday

Principles of soil and plant chemistry  
.....Dr. J. S. Joffee  
Natural supply of plant nutrients from the soil.....Dean J. G. Lipman  
Nature of commercial fertilizers.....

.....Prof. A. W. Blair  
Use of commercial fertilizers.....

.....Prof. A. W. Blair  
The nature of soil acidity and its detection.....Prof. A. L. Prince

Forms of lime and their use on turf  
.....Mr. H. R. Cox

### Wednesday

Fertilizer tests at New Brunswick...  
.....Dr. H. B. Sprague

Soil micro-organisms and plant nutrition.....Dr. R. L. Starkey

Compost materials and composting...  
.....Mr. H. R. Cox

Structure and function of plants.....  
.....Dr. H. B. Sprague

Characteristics of good turf plants...  
.....Dr. H. B. Sprague

### Thursday

Climatic adaptation of turf plants...  
.....Dr. H. B. Sprague

Soil adaptation of turf plants.....  
.....Mr. E. E. Evaul

Seeds of turf plants.....Miss J. G. Fiske  
Inspection of seed testing laboratory..

.....Miss J. G. Fiske  
Turf infesting insects and their control.....Prof. C. C. Hamilton

Weeds and their control..Dr. H. B. Sprague

### Friday

Turf diseases and their control.....  
.....Mr. E. E. Evaul

Starting new turf.....Dr. H. B. Sprague  
Renovating poor turf.....Mr. E. E. Evaul

Care of turf.....Dr. H. B. Sprague

## Advanced Courses Also Offered

For students who have taken the one-week course in turf management, there will be two advanced courses each of 2½ days' duration, offered during the week of Feb. 29-March 4. Course-A will deal with various phases of plant growth; course-B will consider engineering problems. The courses will run concurrently from Monday morning until Wednesday noon, then will be repeated during the remainder of the week, thus allowing students to take either or both subjects.