

of Science and Practice Maintenance Methods

1931 season saving of hundreds of thousands of dollars in golf course budgets. These school sessions are proving a big factor in ironing out a number of conflicting opinions in the fields of turf culture and maintenance methods, and by facilitating the exchange and appraisal of information between studious green-

keepers, in assisting in the identification and elimination of unsound practices.

In almost every case the short courses were attended so well that the matter of restricting attendance is one of the problems confronting those who will conduct the schools next winter.

Fine Varied Program Given at Penn State

EIGHTY-FOUR men interested in fertility problems of fine turf grass management gathered at the Pennsylvania State college for the third annual Greenkeepers' conference February 25 to 27. More than 60 clubs were represented. Last year there were 55 representatives of 42 clubs in attendance at the conference.

The conference opened February 25 with an address of welcome by Dean R. L. Watts, of the School of Agriculture. Joseph Valentine, of the Merion Cricket Club, then gave the report of the Pennsylvania Fine Turf Research committee. This was followed by a progress report on research projects at State college, presented by Professors C. O. Cromer, J. W. White, and H. B. Musser, of the department of agronomy.

Relation of soil types to management was the topic Thursday morning. Professor A. L. Patrick, of the department of agronomy, chairman of the conference, talked on soil types. He discussed the outstanding physical and chemical characteristics of the important soil groups in the state. Professor F. G. Merkle, of the department of agronomy, told of the importance, functions, sources and maintenance of organic matter. He was followed by Wendell P. Miller, Chicago, who discussed drainage and irrigation. Professor Merkle and County Agent C. K. Hallowell, Philadelphia, next told of the nature, cause, effect, and extent of soil acidity.

(Continued on page 127.)

Massachusetts Conference Has Attendance of 200

AT THE closing session of the M. A. C. conference, Francis Ouimet, former national open and amateur golf champion, characterized the low handicapped golfer as temperamental as a prima donna. "Unless the golfer gets away to a good start, his whole round for the morning is spoiled," says Ouimet, "and he has to blame somebody or something and generally picks on the condition of the green."

Approximately 200 golf course managers, greenkeepers, and golf enthusiasts were registered for the conference which was prepared by members of the winter school for greenkeepers at the college. All members of the school, with the exception of five students from the two-year course of the college, were greenkeepers or golf course managers. Connecticut, Illinois, New York, Minnesota, and Iowa are states outside of Massachusetts which were represented in the school. When the school started five years ago it was the first one of its kind in the country and due to lack of laboratory facilities and other factors it is necessary to limit enrollment.

Exhibits and Speakers at M. A. C.

Numerous exhibits in regard to golf maintenance and golf course machinery were prepared by members of the class. The speaking program included "Testing of Seeds and the State Seed Law" by F. A. McLaughlin of the control service at the

(Continued on page 124.)



GREENKEEPER STUDENTS AND THEIR INSTRUCTORS IN THE 1931 WINTER SCHOOL AT MASSACHUSETTS AGRICULTURAL COLLEGE

1. Harry Bairstow, two-year student at M. A. C.; 2. Julius W. Torok, Wee Burn Club, Norton, Conn.; 3. Dr. Davis, Botany Department, M. A. C.; 4. James F. Carberry, Lake Bluff, Ill., Shoreacres C. C.; 5. Timothy O'Connell, Sidney (N. Y.) G. & C. C.; 6. Sylvanus H. Martinage, Methuen, Mass., Merrimac Valley C. C.; 7. Sanborn Caldwell, Lynnfield Center, Mass., Sagamore G. C.; 8. Professor Gunness, Engineering Dept., M. A. C.; 9. George Figel, Turtle River, Minn., Bemidji C. C.; 10. Robert L. Mitchell, Salem, Mass., Kernwood G. C.; 11. Parker Moulton, Peabody, Mass., two-year student at M. A. C.; 12. Edwin Hansen, Concord (Mass.) C. C.; 13. Paul Wanberg, Waltham, Mass., Weston G. C.; 14. Carl Treat, Auburndale, Mass., Woodland G. C.; 15. Charles F. Carter, Cedar Rapids, Iowa, Kenmore G. C.; 16. Thomas F. Burke, Woburn, Mass., two-year student at M. A. C.; 17. Harry F. Quinn, Franklin (Mass.) C. C.; 18. Charles F. Bernard, Sandwich, Ill., Sannank C. C.; 19. James Twohig, Springfield, Mass., two-year student; 20. Henry J. Travers, Lexington, Mass., Paul Revere Club; 21. Henry J. Toole, Amherst (Mass.) G. C.; 22. Professor Markuson, Engineering Dept., M. A. C.; 23. Dr. Cubbon, Agronomy Dept., M. A. C.; 24. Professor Dickinson, Horticultural Div., M. A. C., in charge of winter school; 25. Joseph Whitehead, Cromwell, Conn., Middletown G. C.; 26. A. Wells Hare, Springfield, Mass., two-year student at M. A. C.

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(Continued from page 29.)

college; "Appreciation of Landscape in Golf Courses" by F. A. Waugh, landscape authority from M. A. C.; and round table discussions on "Soils and Fertilizers," "Golf Course Drainage," and "Water Systems," led by members of the M. A. C. staff; "How the Massachusetts Golf Association Can Help the Greenkeepers" by Talbot C. Chase, president of that body; "Some Water Relations of Turf Plants" by H. B. Sprague of the New Jersey Experiment Station; "Some Interesting Facts on Golf Course Mowers," by L. S. Dickinson of the division of horticulture at the college and director of the winter school; and motion pictures which included golfing with Jess Sweetser and construction and other factors in golf course management.

Wisconsin Course Emphasizes Greens Maintenance

(Continued from page 28.)

further the value of these talks, F. W. Duffee of the agricultural engineering department discussed the best kinds of mowers to select.

Detailed instruction in preparing soils during the construction of greens was given by O. J. Noer, formerly of Wisconsin's soils department. The subject of fertilizers was also assigned to Mr. Noer, and to C. J. Chapman of the soils department. E. R. Jones, professor in agricultural engineering, explained the drainage side of the question.

Pests that attack greens were, of course, a theme of vital interest to many of the greenkeepers. A. S. Dahl, disease specialist of the Green section, gave worthwhile instruction in controlling snow mold and