

Short Course for Greenkeepers

University of Wisconsin devotes five days to interesting study of problems of course maintenance and turf.

BY H. HANKINSON

THE first greenkeepers' course ever held by a state university in the Midwest was conducted by the College of Agriculture at the University of Wisconsin, Madison, from February 10th to 14th inclusive. Fifty-nine greenkeepers from Illinois, Minnesota and Wisconsin were enrolled in the course.

Faculty members for this course included the best that could be secured in the various fields. Specialists were selected not only from the College of Agriculture, but also from other places, so that expert instruction in all phases of golf grounds management could be given. The subjects covered a wide range of interests from maintenance problems, golf grounds equipment and land drainage, to discussions regarding care of turf and plantings and the preservation of natural beauty on golf courses.

The best kinds of grasses for golf courses and greens and the care of turf were presented in detail in several lectures by John Monteith, grass specialist in the Greens section of the United States Golf association. The soil as a basis for plant growth and the use of fertilizers were handled in a practical way by O. J. Noer, soils and fertilizer specialist, and by C. J. Chapman and E. J. Gaul, professors of soils in the College of Agriculture.

Among other worthwhile things in his talks, Mr. Noer stressed the importance of the physical characteristics of soils and showed that many disappointments in the matter of turf were the result of neglect to get good physical structure at the start.

Seed Expert Gives Advice

IN lectures and seed demonstrations, A. L. Stone of the Wisconsin agronomy department informed the greenkeepers of the impurities to be found in cheap mixtures of grass seeds and warned against purchasing seeds from companies not known to be reliable. In his laboratory section, students of the course were shown how to detect certain weed seeds, chaff, and other matter detrimental to good stands of grass.

Diseases of grass and other pests of

golf courses, such as animals and insects, were discussed in an enlightening manner by A. S. Dahl, disease specialist of the United States Golf association and by H. F. Wilson of the Wisconsin economic entomology department.

Drainage problems were handled by E. R. Jones and F. W. Duffee, College of Agriculture engineering department, and home-made devices and commercial equipment for golf courses were taken up by C. A. Tregillus, manager of the A. D. Lasker estate at Lake Forest, Illinois.

Franz A. Aust, associate professor of landscape design, gave suggestions and advice in the care of trees. He also pointed out that responsibilities rested with greenkeepers everywhere in the matter of helping to preserve natural outdoor beauty. The golf course, he said, should be maintained as a portion of America's beautiful countryside and seldom landscaped to resemble a city estate.

Laboratory Work Interesting

FOUR laboratory sections during the course gave all students opportunity to



GREENKEEPERS ATTENDING THE UNIVERSITY OF WISCONSIN'S SHORT COURSE

BOTTOM ROW, left to right—H. W. Schmitz, Sparta, Wis.; F. J. Ranney, West Salem, Wis.; John Bauer, Prairie View, Ill.; Adam Fleek, Brodhead, Wis.; C. R. Brinkley, Freeport, Ill.; R. Kurtz, Milwaukee, Wis.; V. Miller, Milwaukee, Wis.; W. Merrifield, Delafield, Wis. SECOND ROW—E. A. Leitzinger, Cambridge, Wis.; F. Boeye, Northbrook, Ill.; F. J. Dinnelli, Northmoor, Ill.; H. Neipert, Jefferson, Wis.; P. F. Sieber, LaCrosse, Wis.; D. Gates, Williams Bay, Wis.; Fred Peters, Waukesha, Wis.; E. A. Fox, Racine, Wis.; C. B. McCann, Eau Claire, Wis. THIRD ROW—Harry Stewart, Cambridge, Wis.; C. L. Kalitoski, Westfield, Wis.; H. J. Wittenberg, LaCrosse, Wis.; Will Bryant, Brown Deer, Wis.; H. Bergan, Winthrop Harbor, Ill.; P. Brockhausen, Wauwatosa, Wis.; Don R. Boyd, Northbrook, Ill. FOURTH ROW—P. G. Wagner, West Bend, Wis.; P. W. Sommers, Elkhorn, Wis.; Otto Schael, Wausau, Wis. FIFTH ROW—R. E. Farmer, Milwaukee, Wis.; V. S. Bietz, Beloit, Wis.; F. B. Reinhart, Beloit, Wis.; Dick Ryerson, Milwaukee, Wis. SIXTH ROW—J. Glaster, Delavan, Wis.; M. P. Christensen, Racine, Wis.; H. W. Kubiak, LaCrosse, Wis.; F. L. Johns, Platteville, Wis.; E. J. Simons, Rockford, Ill.; A. R. Ludwigsen, Hartland, Wis.; E. Foster, South Milwaukee, Wis.; E. J. Levenhagen, Milwaukee, Wis. SEVENTH ROW—B. M. Donavan, Bloomington, Ill.; R. E. Meyers, Baraboo, Wis.; E. M. Iverson, Williams Bay, Wis.; J. N. Monical, Maywood, Ill.; R. R. Springer, Rockford, Ill. EIGHTH ROW—A. J. Gillett, Rockford, Ill.; F. J. Hartwell, Hinsdale, Ill.; J. S. Bone, Madison, Wis.; Mavor Boyd, Hillside, Ill.; J. B. Boyd, Northbrook, Ill.; L. W. Quigley, Wauwatosa, Wis. LAST ROW—L. R. Bloomquist, Minneapolis, Minn.; R. Zwerg, Madison, Wis.; R. B. Michael, Oconomowoc, Wis.

study more in detail the problems taken up in lecture and discussion periods. These groupings were particularly helpful because actual equipment and materials could be seen and handled. Laboratory subjects consisted of seed studies, soil problems, gas engines, and land drainage. Each group was given instruction in a different subject each day.

An hour or more every day was given over to discussions of the topics taken up in the lecture periods. These round table talks were informal; students were urged to ask questions relating to their own personal problems in golf course management, and answers were given by experts in the particular line of discussion announced and by experts in closely allied fields, one or more of whom were always present. In these round table discussions, students also profited from an exchange of experiences with other students, they said.

At the close of the four and one-half day session, the greenkeepers were agreed that the information and practical studies packed into the course might well have been extended over a period of several weeks.

Following is the formal program of the course, and a list of the students enrolled:

Short Course in Greenkeeping University of Wisconsin, Madison, Wisc.

STAFF

F. A. Aust. Professor of Landscape Design, University of Wisconsin.

C. J. Chapman. Professor of soils, University of Wisconsin.

A. S. Dahl, Disease Specialist. Green Section, U.S. Golf Ass'n.

F. W. Duffee. Professor of Agricultural Engineering, University of Wisconsin.

E. J. Gaul. Professor of Soils, University of Wisconsin.

E. R. Jones, Professor of Agricultural Engineering, University of Wisconsin.

John Monteith. Grass Specialist, Green Section, U.S. Golf Ass'n.

O. J. Noer. Soils and Fertilizer Specialist, formerly Soils Dep't, University of Wisconsin.

A. L. Stone. Professor of Agronomy, University of Wisconsin.

C. A. Tregillus. Manager of A. D. Lasker Estate, Lake Forest, Illinois.

H. H. Wilson. Professor of Economic Entomology, University of Wisconsin.

PROGRAM

General sessions held in Horticultural Building.

Monday, February 10

- 10:00 a.m. Registration
- 1:15 p.m. Announcements
- 1:30 p.m. Grasses for golf course, their adaptation and propagation Mr. Monteith
- 3:00 p.m. Properties of soil and their relation to plant growth Mr. Noer
- 4:00 p.m. Soil acidity, its detection and control Mr. Gaul

Tuesday, February 11

- 8:00 a.m. Grass seeds and their impurities Mr. Stone
- 9:00 a.m. Sources of plant nutrients Mr. Chapman
- 10:00 a.m. Grass for greens Mr. Monteith
- 1:30 p.m. Laboratory instruction
 - Section 1—Seed studies Mr. Stone
 - Section 2—Gas engines Mr. Duffee
 - Section 3—Land drainage Mr. Jones
 - Section 4—Soils Mr. Gaul
- 3:30 p.m. The use of fertilizers for turf development and maintenance . Mr. Noer

Wednesday, February 12

- 8:00 a.m. Diseases of grass and their control Mr. Dahl
- 9:30 a.m. Animal and insect pests of golf courses Mr. Wilson
- 10:00 a.m. Round table on grass fertilization Mr. Noer
- 1:30 p.m. Laboratory instruction
 - Section 1—Gas engines
 - Section 2—Land drainage
 - Section 3—Soils
 - Section 4—Seed studies
- 3:30 p.m. Tree planting and care Mr. Aust

Thursday, February 13

- 8:00 a.m. Principles of land drainage Mr. Jones
- 9:00 a.m. Care of turf Mr. Monteith
- 10:00 a.m. Round table on grass problems Mr. Monteith
- 1:30 p.m. Laboratory instruction
 - Section 1—Land drainage
 - Section 2—Soils
 - Section 3—Seed studies
 - Section 4—Gas engines
- 3:00 p.m. The labor factor Mr. Tregillus

Friday, February 14

- 8:00 a.m. Drainage problems Mr. Jones
- 9:00 a.m. Golf course equipment Mr. Tregillus
- 10:30 a.m. Landscape problems Mr. Aust
- 1:30 p.m. Laboratory instructions
 - Section 1—Soils
 - Section 2—Seed studies
 - Section 3—Gas engines
 - Section 4—Land drainage
- 3:30 p.m. Final conference

Student Enrollment

SECTION I

- E. A. Lietzinger, Cambridge, Wis., Lake Ripley
- Harry Stewart, Fort Atkinson, Wis., Lake Ripley
- Roy Meyer, Baraboo, Wis., Baraboo
- J. E. Snobble, Evanston, Ill.
- A. J. Gillett, Rockford, Ill., Harlem Hills
- B. M. Donovan, R. 3, Bloomington, Ill., Highland Park
- Frank J. Dinelli, Ravinia, Ill., Northmoor C. C.
- Claire Binkley, Freeport, Ill., Freeport C. C.
- R. Burns Michael, Oconomowoc, Wis., Oconomowoc C. C.
- F. L. Johns, Platteville, Wis., Platteville C. C.
- Fred Boeye, Northbrook, Ill., Middlebrook C. C.
- E. J. Simon, R. 5, Rockford, Ill., Sandy Hollow C. C.

J. B. Boyd, Northbrook, Ill., Sunset Ridge C. C.
Paul Brockhausen, Wauwatosa, Wis., Blue Mounds C. C.

L. W. Quigley, Wauwatosa, Wis., Jacobsen Mfg. Co.

SECTION II

- C. B. McCann, Eau Claire, Wis., Hillcrest Golf C.
- F. J. Hartwell, Hinsdale, Ill., Ruth Lake C. C.
- Harry A. Neipert, R. 1, Jefferson, Wis., Meadow Spgs. G. C.
- Don R. Boyd, Northbrook, Ill., Techny Fields
- F. J. Ranney, West Salem, Wis., Maple Grove C. C.
- Fritz Reinhart, Beloit, Wis., Morse Hills G. C.
- James Gloster, Delavan, Wis., Lake Lawn G. C.
- Peter Sieber, R. 3, La Crosse, Wis., Winneshiek G. & C. C.
- H. J. Wittenberg, La Crosse, Wis., Winneshiek G. & C. C.
- L. R. Bloomquist, R. 2, Minneapolis, Minn., Country Club
- J. H. Bauer, Prairie View, Ill., Kildeer C. C.
- E. M. Iverson, Williams Bay, Wis., Kishwaukee C. C.
- Donald Gates, Williams Bay, Wis., Kishwaukee C. C.
- Roy R. Springer, R. 3, Rockford, Ill., Mauh Mah Tee See G. C.
- Fred Peter, Waukesha, Wis., Spring City

SECTION III

- Mavor Boyd, Hillside, Ill., Maywood G. C.
- Otto Schael, Wausau, Wis., Wausau C. C.
- Harold Bergan, Winthrop Harbor, Ill., Oakshore G. C.
- Robert E. Farmer, North Milwaukee, Wis., Brynwood C. C.
- Evald Fischer, South Milwaukee, Wis., Grant Park G. C.
- E. J. Levenhagen, West Allis, Wis., Greenfield Park G. C.
- Russell Kurtz, Wauwatosa, Wis., Currie Park G. C.
- A. W. Wilbrandt, N. Milwaukee, Wis., Brown Deer Pk. G. C.
- Phillip Wagner, R. 4, West Bend, Wis., West Bend C. C.
- Paul W. Sommer, R. 1, Elkhorn, Wis., Lauderdale C. C.
- M. P. Christensen, Racine, Wis., Jacobsen Mfg. Co.
- Eugene A. Fox, Racine, Wis., Racine C. C.
- Adam Fleek, Broadhead, Wis., Decatur Lake C. C.
- Dick Ryerson, Milwaukee, Wis., Equipment Dealer

SECTION IV

- J. N. Monical, Maywood, Ill., Maywood G. C.
- Alfred Ludwigson, Hartland, Wis., Cheniqua C. C.
- Verland Miller, S. D. R. 2, Milwaukee, Wis., Tuckaway C. C.
- Albert Nettum, Stoughton, Wis., Stoughton C. C.
- Wesley Merrifield, Delafield, Wis., St. John's G. C.
- Clement Kalitowski, Winona, Minn., Westfield G. C.
- Harry Kubiak, La Crosse, Wis., La Crosse C. C.
- Henry White, Lake Geneva, Wis., Hillmoor G. C.
- John S. Bone, Madison, Wis., Black Hawk C. C.
- H. W. Schmitz, Sparta, Wis., Sparta C. C.
- R. F. Zerg, Madison, Wis., Municipal
- V. S. Dietz, Beloit, Wis., Beloit C. C.
- Owen Baker, Beloit, Wis., Superintendent of Parks
- Ross Yost, Beloit, Wis., Municipal
- C. L. Bingham, Beloit, Wis., Municipal