comparison of his figures with those of another greenkeeper whose record is also set down under this same rule, is at once definite and certain and whatever value there may be in any comparison will depend upon the actual work of the two as greenkeepers and not upon the bewildered and stupid work of the bookkeeper.

It must be remembered that the costs for green service may be anything that a careful or wild-eyed committee wants to make them. Tournaments may be expensively run or inexpensively run; or they may be omitted; or they may be paid for out of private pockets. Other service costs will vary greatly; high or low priced professionals; good or bad caddy masters; ice water or no ice water; and so on for various clubs. No two are exactly alike and the results may be anything that the members in their foolishness desire them to be.

A golf course, however, is a golf course. It consists as a rule of 18 holes, and those 18 holes are pretty much like any other 18 holes so far as length and size of greens are concerned. At any rate, if only the actual costs to maintain any 18 holes so that golf may be played at any time during the season according to the rules, are written in the accounts, comparisons of the up-keep of one course with another, the efforts of one greenkeeper with those of another, may be easily made.

If it costs $1,000 per hole per year to maintain one golf course and $1,200 per hole per year to maintain another in the same district, there must be a reason. Inasmuch as the figures are built upon the same foundation, the resulting differences must come from the efforts of the greenkeeper. Those efforts must be within his control or without his control. Labor may cost more on one course than the other and this is either the fault of the greenkeeper or it isn't. If it is not his fault, that fact is easily determined; if it is, that is also easily determined and the proper remedy may be applied, either by getting a new greenkeeper or getting some new workers.

Maybe the members of one club are more exacting than those of the other and compel the greenkeeper to mow the greens oftener, or to employ more men, or to cut the rough more often. These are facts that are easily determined. And then again, maybe the $1,200 per hole greenkeeper is keeping his course in just that much better condition and that the members want it done that way and are willing to pay for it. Or maybe it is the other way around, maybe the $1,000 per hole man is keeping up his course better than the $1,200 man. And so on for any kind of a comparison you desire to make. Such comparisons are impossible under the bookkeeping schemes of a very large number of our clubs.

GREENKEEPERS CANNOT CONTROL ACCOUNTS

GREENKEEPERS, it is true, have no final authority in the bookkeeping methods of the accounting departments of their clubs, but they have some influence. I have no doubt that practically every greenkeeper could get the bookkeeping department of his club to set his accounts up in the fashion that I have been advocating. Most of the present situation comes from the lack of understanding of such matters by the bookkeepers.

I remember well, when I first took hold of the bookkeeping of my own club. I chucked everything that had to do with the game of golf or the condition of the grounds into the course maintenance and that the members want it done that way and are willing to pay for it. Or maybe it is the other way around, maybe the $1,000 per hole man is keeping up his course better than the $1,200 man. And so on for any kind of a comparison you desire to make. Such comparisons are impossible under the bookkeeping schemes of a very large number of our clubs.

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Concluded on page 46

EVERYTHING a GREENKEEPER NEEDS

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A. E. FLACK, Pres. H. J. STREICH, Sec'y-Treas.
Greenkeepers' Class at the University of Wisconsin
A better understanding of the fundamentals underlying the work on golf courses was the general theme of the second annual Greenkeepers' Short Course given by Wisconsin's College of Agriculture at Madison, February 9-13. Five states were represented, and sixty-two greenkeepers were enrolled.

The program covered nearly all phases of golf grounds care and management, including soils, drainage, fertilizers, kinds of grasses, diseases and other pests of turf, mowing, and landscape problems. All instruction was practical and was applied to golf greens in a detailed rather than in a general way.

One speaker who appeared on each day's program was John Monteith, specialist in grasses from the green section of the United States Golf Association at Washington, D.C. He discussed the kinds of grasses to select for various sections and locations, the relation of grass mowing to the care of greens and to the game, and the principles which help to maintain a well-kept course. He emphasized the advantages of using various kinds of grasses and grass mixtures for fairways, tees, and rough and gave reasons for the differences.

Further emphasis on proper mowing and its relation to the health of grass was brought out during the course by L.A. Graber of the College of Agriculture's agronomy department. G.W. Mortimer of the same department spoke on grass development; and some time was given to hearing the experiences of various ones who had grown bent grasses. F.W. Duffee, professor in agricultural engineering, explained what a good mower should possess.

Fungus diseases which attack greens were given special attention on the program. How to detect and control snow mold and large and small brown patch, so difficult to avoid in the northern states, were clearly explained by Arnold S. Dahl, disease specialist of the United States Golf Association. In experimental work which is being carried out along that line, he said that the cause is first determined, then conditions which encourage the diseases are studied, and finally control measures are applied.

Other nuisances of greens, such as insect pests and weeds were also discussed. C.L. Fluke, entomologist in the College of Agriculture, pointed out means of controlling that enemy of grass roots, the white grub; and the matter of weeds and their extermination was covered by A.L. Stone, seed specialist in the agronomy department.

The subjects of soils and fertilizers were given the place on the program which their importance merits. They were ably handled by C.J. Chapman of the soils department of the College, and by O.J. Noer, formerly of the same department. G.W. Mortimer also spoke on fertilizers in their relation to fairways.

One of the special features on this year's program was a discussion of traps by Kenneth Welton of the United States Golf Association. "No trap should be built unless there is a good reason for it," Mr. Welton stated. "There is a place only for those that improve and add strategy to the game. Ordinarily they should not be out at the side where good players never go, and where poor players get plenty of obstacles in the rough."

Mr. Welton also touched upon the desirability of good drainage in connection with traps because players like to get out on the course as quickly as possible after heavy rains in spring. In another talk he explained the relation of topography to drainage and to play on the green.

General instruction in drainage on greens was handled by E.R. Jones of the Agricultural engineering department; and J.G. Dickson, plant pathologist in the College, told how the orientation of a green affects the snow problem.

Another topic which was taken up for the first time was the matter of greenkeepers' records. F.H. Elwell, professor of accounting in the University and secretary of one of Madison's golf clubs, spoke of the importance of keeping a well-ordered budget. He illustrated his talk with a model "Distribution of Service" record. He gave as his reasons for stressing the subject his belief that greenkeepers should be able to substantiate with figures every statement as to how money is to be spent or how it has been spent. It gives a greenkeeper a
record of what funds he ought to have, Mr. Elwell said, and it enables him to receive better cooperation from the club members.

Many points brought out in lectures were made more vivid by means of lantern slides and movies. This was especially true of the talk by F. A. Aust, associate professor of landscape design at Wisconsin, who urged the use of native trees and shrubs and the planting of flowers for beautifying golf courses. By means of moving pictures he showed also an excellent method of tiling around trees for the purpose of sub-irrigation.

Laboratory sessions every afternoon gave each greenkeeper opportunities to witness practical demonstrations in the detection of weed seeds among grass seeds, to compare various makes and kinds of mowers, to discuss in detail problems of land drainage, and to study various kinds of soils and the fertilizers to use on them. Discussions were entered into freely by the greenkeepers themselves, worthwhile ideas and experiences were exchanged among them, and their splendid attitude toward the course and its faculty was shown in the earnest questioning of the members.

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Analysis:

- **NITROGEN** (equivalent to ammonia) . . . . 6.0 - 6.5%
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The Nitrogen in Milorganite is

**ALL ORGANIC WATER INSOLUBLE HIGHLY AVAILABLE**

Perfect Mechanical Condition
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Milwaukee Wisconsin
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Bone, John S., R. F. D. 7, Madison, Wis., Black Hawk Country Club.
Bond, R. R., 410 Maple, Madison, Wis.
Brockhausen, Paul, Box 98, Wauwatosa, Wis., Blue Mound Country Club.
Caley, G. H., Waterford, Wis., Waterford Woods Golf Club.
Bone, John S., R. F. D. 7, Madison, Wis., Black Hawk Country Club.
Bond, R. R., 410 Maple, Madison, Wis.
Brockhausen, Paul, Box 98, Wauwatosa, Wis., Blue Mound Country Club.
Caley, G. H., Waterford, Wis., Waterford Woods Golf Club.
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Caley, G. H., Waterford, Wis., Waterford Woods Golf Club.
The Midwest Greenkeepers' Association wishes to extend its sincere hope for the rapid return of health to one of our life honorary members, Alfred E. Lundstrom. We missed you at Columbus, Al.

We sorta had an amusing experience at the Stag Friday evening—we were getting some sandwiches at the table, but there was no bread, so we entered a side room, where three colored boys were getting the refreshments ready and one slicing bread. The big boys, evidently the captain, was issuing the following instructions, "Now you all take these trays out and set them down, let the damn farmers help themselves."

Having somewhat recovered from the activities of the Columbus meeting, we will venture to state that Columbus seems to have an over quota of beautiful women—also it appears that some of our boys proved admirable connoisseurs.

Our honorable president, Matt Bezek, acted as guide on one of our morning trips to visit golf courses. Matt had remembered that Scioto Country Club had been passed as he entered Columbus from his Chicago drive and that it was only a short distance out of Columbus—so with these impressive facts we elected him official guide. However, Matt had become slightly twisted in his directions and directed us southeast of Columbus—after driving about forty miles out—we finally about faced and returned. It did seem odd to the other members of the party that driving from Chicago to Columbus we should enter from the southeast. Ben Hagge of Casa del Mar acted as chauffeur, the other members being all Midwest officers. "Amos" Sheets kindly furnished us with his Nash sedan. Later when we visited Scioto we found it north of Columbus.

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Well, soon another year will roll by and we'll be meeting again in New York City.

Some of you Midwest members are becoming strangers. Come on let's see you at more meetings. You'll not regret it!! Let's get rolling!!!
Michigan State Greenkeepers' Course
By PROFESSOR C. E. MILLAR

Michigan greenkeepers were accorded the privilege of attending a short course in greenkeeping at the Michigan State College of Agriculture, East Lansing, February 16-19. The attendance was unusually large, proving the value of these short courses as well as the desire of the greenkeepers to learn the technical side of turf culture.

The greenkeepers were welcomed on Monday, afternoon, February 16, by Dean Cox of the University. The Tuesday session was presided over by John Dustin, president of the Western Michigan Greenkeepers' Association. One Wednesday, Herbert Shave, president of the Detroit and Border Cities' Greenkeepers' Association presided.

Following is the program:

MONDAY, FEBRUARY 16
1:30—Meeting called to order—C. E. Millar
1:35 Address of Welcome—Dean Cox
2:00—Recent Development in Greenkeeping—Mr. Monteith, Green Section, U. S. Golf Association
2:30—Service in Disease Control Offered by Botany Department of Michigan State College—Dr. Muncie
2:45—Grasses for Golf Courses—Mr. Monteith, U. S. G. A.
3:45—Round Table Discussion of Grasses—Mr. Monteith, U. S. G. A.

TUESDAY, FEBRUARY 17
9:00—Introduction of John Dustin, President of Western Michigan Greenkeepers' Association, who will serve as chairman
9:15—Turf Diseases—Mr. Monteith
10:15—Round Table Discussion of Turf Diseases—Led by Mr. Monteith
11:00—Drainage Problems—Mr. Robey, Agricultural Engineering Department
1:30—Round Table Discussion of Green Management—Mr. Welton, Green Section, U. S. Golf Association
2:30—Gas Engines—Professor Musselman, Agricultural Engineering Department
3:15—Laboratory Study of Gas Engines—Professor Musselman and staff.

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The Universal Mower Sharpener
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WEDNESDAY, FEBRUARY 18

9:00—Introduction of Herb Shave, President of Detroit and Border Cities Greenkeepers’ Association, who will serve as chairman
9:15—Service in Insect Control Offered by Entomology Department
9:30—Control of Turf Insects—Mr. Welton
10:00—Round Table Discussion of Insect Control
11:00—Landscaping the Golf Course—Professor Halligan, Department of Landscape Architecture
1:30—Principles of Pruning—Professor Bradford, Horticultural Department
2:00—Mowers—Professor Musselman
2:30—Inspection of Ideal Power Lawn Mower Factory

THURSDAY, FEBRUARY 19

8:30—Professor Halligan, Chairman
8:45—Soils and Fertilizers—Dr. Tyson
9:15—Laboratory Study of Soils and Peats—Dr. Tyson and Dr. Harmer
11:15—Grass Seeds—Mr. C. A. Stahl, State Seed Analyst
1:30—Weed Control—Professor Megree, Farm Crops Department
2:30—Joint Meeting of Greenkeepers’ Associations of Michigan

Enrollment—Greenkeepers’ Course
Michigan State

Ackerman, E. H., Country Club, Orchard Lake
Appeldorf, David H., 4477 Vancouver Avenue, Detroit
Arnold, A. E., Comstock Park
Axford, Ross J., Box 362, Utica
Bancroft, Lee, 201 City Hall, Lansing
Barber, George E., Lake Ann
Barrow, L. C., Howard E., Oak Grove
Broman, Charles E., R. No. 3, Sparta
Bostic, R. W., Acacia Country Club, Lansing
Bostic, R. W., Country Club, Orchard Lake
Boyd, M., Walnut Hills Country Club, East Lansing
Boyce, D., University Golf Course, Chicago
Boyce, L., Sunset Ridge Golf Course, Chicago
Calder, Earl, R. No. 1, Lansing
Campbell, E. A., 924 W. Lowell Street, Kalamazoo
Case, William, R. No. 1, Ludington
Chisholm, Henry, Country Club, Lansing
Chisholm, James, Country Club, Lansing
Cooley, Ralph, R. No. 1, Lansing
Cronin, William H., 1111 Wayburn, Detroit
Cook, Theodore R., Manistee
Cronin, William H., St. Joseph
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Delli
JOHN QUAILL SAYS:

Conventions come and conventions go but the Greenkeepers' convention gets better every year.

Such is the opinion of those who have attended regularly.

All over but the shouting. Well, shout as loud as you can and tell everyone about the fine show and conference we had at Columbus.

It's a poor greenkeeper who didn't get some good ideas and advice at the convention. Whoever heard of a poor greenkeeper belonging to an association like ours. If he is poor when he gets in he don't stay that way very long. Everybody helps him out and he learns something new every day.

Over a hundred members paid their dues at the convention. The other four hundred and twenty-five are expected to pay up soon, so don't forget to send a check. We will keep telling you about it if you don't.

Why not join the Death Benefit Fund this year? It's cheap insurance and you are helping the other fellow out. Let's make it one hundred per cent and make it worthwhile.

No member of the association would hesitate to give a brother greenkeeper's wife or family a dollar if he died, so join up and help the cause along.

Here is a good resolution: Resolved, That I will send in one or more articles or pictures for the National Greenkeeper this year. It's our magazine so let's make it grow so large that "Bob" Power will have to pay more postage to send it out.

Patronize the advertisers in the magazine and the exhibitors at the golf show. They will treat you right and at the same time you will show your appreciation for what they have done for you.

Start working for that thousand members for next year. When we get to New York we want to show them a real association. Send in some names and we will go after them. Better get them in now as there will probably be an initiation fee next year.

Don't forget to BOOST the association. JOIN the Death Benefit. Get a new member.

Don't Be Stymied by Brown Patch

A perfect drive—a long iron—and now for the approach shot.

But what has happened to the green? Brown Patch—that's a hazard which seems unnecessary. It is unnecessary with Barbak 211, the perfect turf disinfectant.

Make a test of Barbak 211 and you will find that Brown Patch will travel over plots of untreated turf and stop precisely on the line of the area treated with Barbak 211. This is the experience of Robert Duguid, superintendent of the Evanston Golf Club of Illinois.

As a preventative, Barbak 211 protects against Brown Patch for a longer period than ordinary disinfectants. One well-known greenskeeper places this at 42 days. As a cure, it checks the fungus immediately and quickly brings back a normal stand of turf.

Barbak 211 may be applied in solution or dry, mixed with a top dressing, sand or fertilizer and watered in. Write us for further facts.

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TWO 211 ELEVEN
TURF DISINFECTANT
Canadian News

By J. H. EVANS, Golf Editor, the Toronto Globe

FRIENDLY criticism was offered to the greenkeepers of the Continent by Vice-President W. J. Sansom, of the National Greenkeepers’ Association upon his return from the association’s annual convention which was concluded in Columbus the first week in February. The criticism was followed with a challenge from the Ontario Greenkeepers’ Association which, it is expected, will be taken up seriously.

Reporting to members of the Ontario association on the deliberations and activities of the convention, Mr. Sansom noted that the team selected by himself and Howard Lloyd had been adjudged the winners of a competition which was the building of a hole from tee to green.

"We took this competition seriously," reported Mr. Sansom. "Learning of it, Mr. Lloyd and myself selected a team several months before the convention and prepared the essential plans from which we were to work. When we went to the convention we found that the other teams which were to have taken part in the competition had no plans from which they might work and had apparently not taken the competition as seriously as we had.

"It wasn't a sporting proposition," he continued. "However, we went to work and we were highly commended for the green which we built. We must over-

look the lack of competition in view of the decision of those who studied our work. We will go a step farther. We will perpetuate the competition through the presentation of a trophy for competition at the next convention in New York. We will do our utmost to defend our walkover at Columbus.

"The competition is an unusual one. It should be a source of pride, particularly in view of the continued efforts of greenkeepers to secure recognition, to any group of greenkeepers to be adjudged the finest architects among greenkeepers of the Continent. I hope our American friends join us in providing a real competition for the next show."

Mr. Sansom recommended the hoseless watering system, although probably the most expensive to install, to members of the Ontario association. He stated that those course superintendents who had been able to install it had spoken highly of it and believed it to be the only system which gave satisfaction with the minimum of upkeep once it was installed. The labor-saving feature appealed to Mr. Sansom who pointed out that it might be operated with one man and that there was no hose to cart around or replace.

"Another piece of machinery attracted a great deal of attention," he said. "There were many machines shown, but the machine which I personally believe to be most suitable for greenkeepers is the one which uses a compound of emery powder and oil. The machine is run by a small motor or a gasoline engine costing probably $100 without the motor."

"Obviously the manufacturer did not want the greenkeeper kept away from the show," he said. "As a consequence, our committee was compelled to conduct its educational program in the same building. The first day it was held in the basement in a room by no means suitable from the point of view of the speaker and seating accommodation. The second day it was held in another portion of the building. There was plenty of seating accommodation, but the acoustics were poor. On the third day it was held in the hotel, but it seemed to be impossible to hear the speakers with comfort.

"We must always pay full attention to the educational features of our convention. Outstanding speakers present their views to us. I trust the association will consider this when it is preparing for the 1932 convention; in fact I am sure it will. I offer these criticisms because after all we must continually strive toward a bigger and a better organization, and because only through criticism can we reach our objective."