

While screening is going on, another crew is putting drains and tile in subsurface of green.

When the draining is finished, the screened soil is then mixed with 50 to 60 percent sharp sand. The mixing is done in a cement mixer, then wheeled onto the greens between boards not less than 8 in. deep. A straight edge reaching from board to board is then pulled the length of the boards, making a level surface and assuring you of not less than 8 in. of soil on any part of the green.

The green is then watered to settle the soil. When green is dry enough, it is rolled both ways. After the rolling, peat moss and fertilizer are spread over the green and raked in. I use 5 bales of peat to a green of 5000 sq. ft. Then fertilizer is spread over the green and raked in, using 400 lbs. of Milorganite, 150 lbs. of 5-10-5, 50 lbs. of phosphate, 25 lbs. of potash. This is all raked in together, then the green is watered.

When the green is dry enough, I spray it with a solution of 1½ gals. of PMAS and 1 pint of 2,4-D. The green is then watered again. PMAS and 2,4-D are most important because they keep crabgrass and other weeds out of green until bent grass is established. I have planted stolons a few hours after fertilizer and PMAS have been applied to greens, with excellent results.

This method of building greens has been

most successful. Golfers of the South who thought, and said, that it could not be done, now enjoy putting on good bent greens.

Iowa Holds First Club Operations Clinic

Iowa golf club operating problems were brought before 80 department heads and officials of the state's golf clubs at a clinic held at Sunnyside GC, Waterloo, Ia., April 26.

The meeting was patterned after the Northeastern Wisconsin Golf Assn. annual operating clinic. Ray Cary, mgr., Elmwood CC, Marshalltown, Ia., headed the group of managers who originated the conference which brought together Iowa supts. headed by Herb Klontz, pres. of their association; pros headed by Dave Bonella of Ottumwa CC, regional vp of the PGA; and golf club officials headed by Pres. Robt. B. Nelson and Green chmn. Fred Hagy of the home club.

Understanding and cooperation between department heads and officials for more efficient operation of the clubs was the theme of each address. Prof. Harvey Lantz of Iowa State College talked on course problems needing particular attention in Iowa, Sy Graham of the Milwaukee Sewerage Commission spoke on the trends in course maintenance, and "Plug" Osborne



GREENS DIAGRAM MAKES INSTRUCTIONS CLEAR

Norman Johnson, supt. San Jose CC, Jacksonville, Fla., and pres., Golf Course Supts.' Assn. of America, has in his shop greens diagrams that enable him to plainly explain to workmen exactly what work he wants done of a routine nature on the course. Johnson says these diagrams make certain the jobs are done right and save a lot of his time needed in personal supervision of certain labor performances.

of the Wilson Sporting Goods Co. told how pros operate in ways that develop more golf play and greater interest and satisfaction at clubs.

Dave Bonella, who has handled course maintenance and house management as well as the pro dept. during his 45 years at Ottumwa detailed how department and committee heads and club officials could work together to give members largest returns for their membership and dues money. Herb Graffis, GOLFDOM's editor, presented the over-all picture of golf club operation as an exacting, important business.

Mayor Pat Touche of Waterloo, a golf enthusiast, spoke on what businesslike golf operation means to a community.

Golf was played in the afternoon and the clinic participants and wives of some of them enjoyed dinner together in the evening. Mgr. Leo Cafferly of Sunnyside gave the party entertainment and instruction by setting up a long table on which were ingredients of a Caesar salad and asking the diners to mix their own. Results were wonderful to behold.

Pro John Brooks and Supt. Joe Sanders of Sunnyside presented, along with Cafferly, a fine demonstration of cooperation in country club operation.

The Iowa group is planning a fall meeting along the lines of the first session. Many who wanted to attend the first meeting were kept away by urgent spring work at their clubs.

SODIUM ARSENITE

(Continued from page 40)

improved the general appearance of the turf, but at the same time stimulated markedly the growth of pearlwort.

In view of the effectiveness of sodium arsenite when used in combination with a supplemental fertilizer, treatments, employing five different rates of this material, were applied at bi-weekly intervals on a pitching green located at the Rainier G&CC in Seattle. These treatments, initiated in late summer of this year, should give a more comprehensive picture of the effectiveness of this material under actual golf-use conditions.

Another herbicide, namely a sodium salt of 2,4-D, has also shown exceptional promise as a control of pearlwort. In a series of treatments conducted in 1952 at the Tacoma G&CC, this material, when applied in a dry mix with an organic fertilizer, checked completely the growth of pearl-

wort. However, the dry or powder preparations of 2,4-D that were so very effective in these early tests are no longer available on the market. Recently, a small quantity of a similar 2,4-D material was obtained for experimental purposes. A series of test plots which will include the application of this material at several rates will be sent out in 1954.

The information that has been obtained thus far strongly recommends the use of sodium arsenite ($\frac{1}{2}$ oz./1000 sq. ft.) applied in a dry mix with a supplemental fertilizer. The importance of the supplemental fertilizer cannot be over-emphasized. The desirable grasses in a golf green must be strengthened and invigorated to resist any new infestation of pearlwort and to crowd out existing clumps of this weed that have been weakened by the application of the herbicide.

Sodium arsenite, when applied in dry form at regular two-week intervals, has weakened the pearlwort thereby contributing to its gradual disappearance without burning or otherwise disfiguring the green.

Supts. 1956 National Meet at Long Beach, Calif.

Golf Course Superintendents' Assn. of America will hold its 1956 turf conference and equipment and supply exhibition at Long Beach, Calif., Feb. 5-10.

Award of the convention was made to Long Beach at a GCSA Executive Board meeting held late in April at St. Louis, Mo.

REMINDS PLAYERS



Sundown Ranch CC, at Scottsdale, Ariz., has its members cooperating in course care now that it's using unique reminder signs. The above "replace divots" sign shows the club pro's wife, Betty Mackey showing "Fan Fare" cartoonist Walt Ditzen a display of a divot somebody didn't replace.