through my orchard and see more apples with my own eyes. If I can see more apples I know the treatment is better." No one showed analyzed data to Sherwood Moore that proved that ½ Tersan and ½ Calo Clor were good. He just tried it on a small scale, liked it and now uses it completely. Your practice green may be a good place for your tests. It may not look so good that near to the club house but at least no one will blame you if he gets a poor lie there.

Consider Types of Fertilizer

Consider using different rates and types of fertilizer on your turf nursery. On one nursery at a golf course in northern Jersey the superintendent had used the standard commercial fertilizer on one area and one of the organic materials on the other. We saw it the day after a bad Brown Patch outbreak and the part with the organic material was almost completely clean in comparison with severe disease on the rest of the area. In our tests at Rutgers using standard fertilizer versus organic ones, the indications have been in favor of the latter, even though the results have not been so clear-cut as the ones the superintendent accomplished.

Those of you who rely on curative



Economical, Trouble-free Golf Course Watering

No golf course watering problem is too tough for Buckner sprinklers. A wide range of performance to choose from. Each item developed to do particular jobs efficiently. Buckner's Perfect Curtain of Water is your assurance of uniform distribution without waste,

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GOOD GREENS AND TEES ALL SEASON

Experts all over the country are finding green and tee trouble stem from hard packing.

Bent roots must have oxygen and they can't get it thru a hard, fine packed top layer.

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spraying rather than preventative spraying, I would invite into the membership of the latter fraternity. Even though you have gone through the years with a modicum of success by spraying the day after disease appears or those forecasters who attempt to time it to the day before they think an outbreak is going to occur, add this test to your experimental green. For the coming year try part of it on a regular ten-day schedule and treat the rest of it in your accustomed manner. Our tests at Rutgers as well as other parts of the country have so completely convinced us of the superiority of the preventative on a regular calendar date that we cannot recommend anything else. It is true that some control was had with the curative method and the cost of the material and labor was less, but not enough less to be worthwhile when the results were taken into consideration. And finally, for this part, identify your disease before you try to combat it. I realize that most of you men can recognize your common troubles in the light of the moon but there are also some of you who cannot recognize a few troubles in broad daylight. A number of superintendents passed off all small circular dead spots as Dollar Spot. Perhaps that is the reason why the recommended materials are not giving you complete satisfaction. If you have any question at all get out to those spots the first thing in the morning before the greens are poled. Rub a white handkerchief across 2 or 3 spots and look at it. If you have a bright orange spot on the white cloth your diseases is Copper Spot rather than Dollar Spot and you don't need a miscroscope to prove it.

Publications containing good descriptions of your turf diseases are not too prevalent, but certainly the few which we do have are excellent. Any man who claims to have an interest in knowing as much as possible about turf diseases but who cannot claim ownership to the excellent Rhode Island publication on Fungus Diseases of Turf Grasses by Dr. Howard and others. should secure it immediately. And if, after trying to identify your problem for yourself you are not sure of your own diagnosis, pull a few sample plugs and get them to your agricultural experiment station as soon as possible. If this means mailing it, mail it on the dry side rather than wet. Too often a package wrapped with excessive moisture arrives in final stages of secondary mold growth so that your research men cannot identify the original trouble.

Turf Fungicide Trials

And now a few words about the National Turf Fungicide Trials of 1952.

Dr. John Vaughn of Michigan State College, was coordinator of the National Trials last year. You will find the following notes and tables of interest to all parts of the country among these excellent and detailed results.

Dollar Spot data are reported from California, Michigan, Ohio and Rhode Island as affected by 21 fungicides. While the majority of the materials gave adequate control the commercially available products which seemed most outstanding were Actidione, Cadminate, Cadsol, Calo Cure, Mercadmine, PMAS, and Scutyl. Others which controlled Dollar Spot well in some states but which were only fair to poor in other states or which could be listed only as second best in the only state in which tested were Calo Clor, Special Semesan, Tat-C-Lect, and Vancide 51. Orthocide 406 gave no control in the single state which tested it and Tersan 75 proved itself good, fair and very poor in three respective state tests.

Along with the standard assaying or testing of fungicides for Dollar Spot control, Dr. Miller in California made an interesting study comparing 8 fungicidal treatments, each applied with three different rates of nitrogen fertilizers, namely, 6, 12 and 24 pounds of nitrogen per 1000 square feet per season. On unsprayed check plots, this increasing rate of nitrogen alone resulted in a decrease in Dollar Spot from 760 on the 6 pound rate to 550 on the 12 pound rate to 260 on the 24 pound rate. No fungicide gave complete disease control on lowest nitrogen rate plots although control was good with Actidione, Cadminate, Calo Clor, Calo Cure. Mercadmine and PMAS and all of these fungicides gave complete control at the medium and high rates of nitrogen. Tersan and Vancide failed to give satisfactory control compared with the other materials. Residual action, as indicated by disease control two months after the last spray application was made, was particularly good with Cadminate, Mercadmine and PMAS at the highest nitrogen rate.

The only state having sufficient Brown Patch to record was Rhode Island, where Dr. Howard had good control with some of the old faithfuls: Calo Clor (both sprayed and "seeded" dry), Calo Cure, Crag 531, Scutyl and Tersan 75. Cadsol,



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June, 1953

a newcomer in the turf fungicides, proved fair, while Actidione and Cadminate gave no control.

Melting-out (Helminthosporium), which seems to be getting more serious in a number of sections in the country appeared in test plots in only Michigan in 1952. Dr. Vaughn had extremely good control only with Actidione while Calo Cure, Tersan and Tat-C-Lect showed only fair.

Copper Spot was serious only in New Jersey where our tests showed Calo Clor, Calo Clor + Tersan, PMAS, Puraturf, Crag 531 and Cadminate gave satisfactory control. Low rates of Calo Cure, Calo Clor and Tersan, plus standard rates of Orthocide 406 and Actidione gave poor control. It was of particular interest to us that while ½ the standard rate of Calo Clor or Tersan gave very poor disease control the combination of these two at the ½ dose rate gave exceptional control—better than either one at the standard dose rate.

Report from England

We welcome into the 1952 project a report from England where Dr. Smith reports upon a disease which is not usually too severe in the United States, but does give us considerable trouble on occasion. His data on Red Thread (known to some of you as Pink Patch) show excellent control with Tersan, Crag 531, a mixture of Malachite Green and Bordeaux Mixture, and a copper material new to most of us known as Coppry. Very good control was also obtained with Puraturf.

Finally, I would make this comment. It is occasionally heard around the clubhouse that "from the looks of the greens they must have a plumber acting as the greens superintendent." May I say that this statement can no longer be based upon fact. First, the plumbers now adays are getting such high wages that no club could afford to hire one for the salary they pay their greens superintendent and second, no plumber is smart enough to handle all the problems in the fast moving world which is the domain of the golf course superintendent.

American Playground Restores Nahma (Mich.) Course

When the American Playground Device Co. purchased the former sawmill town of Nahma, Mich. in the fall of 1951, the Anderson, Ind. manufacturer of swings, slides and other recreational equipment also bought 4,300 acres of wooded land, including a 9-hole golf course.

American has installed its swings, slides, see-saws and Castle Towers at many golf clubs and now can show its playground equipment, park benches and picnic tables on its own golf course.

The Bay de Noquet Co., which had engaged in lumbering operations in Upper Michigan since 1881 and whose Nahma mill sawed its last log on July 26, 1951, built the Nahma course in 1927. The site was an 80-acre farm, where the company pastured the horses used in its early day logging before the advent of truck and tractor.

The idea for a golf course in a sawmill town of a few hundred inhabitants developed from the enthusiasm for the game displayed by Dr. Ferris Summerbell, then the company physician, William H. Acker, company manager at Nahma, and Pearce Cameron, manager of the community's only general store. The trio played golf whenever they could get away to the Escanaba CC, 35 miles from Nahma. But finding the distance oftentimes inconvenient, they improvised three holes at the Nahma baseball field, where they practiced for a couple of seasons.

Supported by interest shown by other Nahma residents, they induced the Bay de Noquet Co. to transform the old company farm into a course. A club was organized, and at one time it had nearly 50 members, including some residents of nearby Manistique and other communities. After the sawmill ceased operations in 1951, membership declined. Now efforts are being made to obtain new members. It's a bargain. Membership fees are only \$10 per year. Wallace Bennette is the acting secretary.

Course "Good Selling Point"

The golf course always was maintained in good condition by the Bay de Noquet Co. Charles E. Good, president of the lumbering firm, always felt that the golf course would be a good selling point whenever the company was forced to suspend operations because of a vanished timber supply.

Since it was acquired by American, the Nahma course has undergone a number

of improvements.

When the course was built, the entrance and No. 1 tee were located at the south end. A few years later, it was relocated at the north end of the course. This year, the fairways were restored to their original numerical order.

A parking lot was established and a white-painted gate erected at the south end of the course, not far from the relocated No. 1 tee. Comfort stations were installed and other improvements made.

Another shelter is planned near the No. 1 tee to supplement the present shelter midway in the course. The latter, inci-

dentally, was originally a sizable play-house which was once the prized child-hood possession of the daughter of one of the lumber company's executives.

Les LaBumbard, greenkeeper for 10 years, was busy with helpers last summer putting fairways, greens and tees in good shape. A water system, operated by Fairbanks-Morse pump, keeps

course adequately irrigated.

American's course is located amidst the wines and hardwoods along the scenic shores of Big Bay de Noc, about a mile northeast of the town, along County Road 495. Although laid out mostly on level ground, it is quite a scenic and sporty course. Glimpses of the waters of Big Bay de Noc are afforded golfers through openings in the woods along the shores.

Par for the 2,836 yds. is 36.

In addition to the golf course, American is rehabilitating the entire town of Nahma. The one hundred homes are being repaired and repainted white with harmonious trim. The Nahma Hotel also has undergone extensive exterior and interior improvements. Rustic lodges on the sandy beaches have been enlarged and modernized, so that each has two well furnished bedrooms, living room with an artistic fireplace, kitchen and bathroom.

Ultimately, American will establish a branch factory in Nahma for the manufacture of its large line of park, picnic, playground, swimming pool and dressing room equipment. Its objective: To make Nahma a model community, where the people will enjoy good working conditions and play at golf, hunting, fishing and other outdoor pastimes in the great American Playground that surrounds the town.

STANLEY KAYE NOW WITH VAUGHAN'S

Charles F. Keegan, Gen. Mgr., Vaughan's Seed Co., 47 Barclay Street, New York City, announces that Stanley Kaye has been added to their sales force covering golf courses, parks and cemeteries. Kaye





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Fertil-Ade No. 2 offers economical insurance against vellowed turf caused by iron chlorosis. Under most normal turf conditions one treatment lasts for the complete growing season.

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As a true liquid fertilizer, Fertil-Ade No. 2 can be applied with a power sprayer. Does not interfere with play. Will not burn.

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One gallon treats 4,000 sq ft. of green or tee.

5 gallon pail — 20,000 sq. ft. \$ 13.75 25 gallons — 100,000 sq. ft. 50 gallons — 200,000 sq. ft. Fertil-Ade No. 1, without Chelated Iron Complex -- 50c per gallon less.

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formerly was associated with Stumpp & Walter Co. in their Sales Division. Kaye now joins John Melady and Alex Sehlmeyer in developing that phase of Vaughan's golf business in the New York area.

ASPHALT TILE PRESERVATIVE

DBA Products Co. has introduced a new Asphalt CLEAR TILE COATING, which they say has remarkable protective qualities. This clear coating is easily applied and dries in four hours, sealing the pores of the tile against dirt and grease penetration, leaving a high lustre. Maintenance consists of sweeping and then mopping lightly with cold water. Additional waxes and polishes, say the manufacturer, are not needed with this permanent type coating. Full information and prices from DBA Products, 749 Deerfield Rd., Deerfield, Ill.

NEW FOLDER ILLUSTRATES AND DESCRIBES METHODS OF ERECTING GOLF NETS

R. J. Ederer Co., 540 Orleans St., Chicago 10, Ill., manufacturers of golf and sports nets, have just issued a folder which shows and tells four easy methods for erecting Ederer golf practice nets. The methods pictured and detailed are — Rope Construction, Wood Frame, Collapsible Iron Frame and Iron Pipe Frame. Materials for erecting Ederer golf nets are obtainable locally. The folder is mailed free, upon request.

ROSEMAN HOST AT ANNUAL DEMONSTRATION PARTY

Roseman Tractor Equipment Co. held its annual get-together for course superintendents, architects, owners and park superintendents May 4th at Chesterfield CC, Glenview, Ill. Over 350 guests saw demonstrations featuring their latest models of fairway and rough mowers along with the new Ford tractors and related equipment.

GARD WATERPROOF SPRAY HAS MUCH GOLF SHOE USE

Gard weatherproof spray, made by Gard Industries, 733 Green Bay Rd., Wilmette, Ill., is extending its golf club market. The material already is being used by many locker-room men and sold at pro shops for waterproofing golf shoes and garments without injuring surface of leather or cloth, and without sealing pores of material against "breathing."

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HONORS AND PROMOTIONS FOR SPALDING OFFICIALS



Walter P. Gerould, VP and Controller of A. G. Spalding & Bros., elected secy, of the Athletic Manufacturers Assn. at their Spring meeting which was held in the Yale Club in New York.



Frank Hiatt appointed national sales manager of Spaldings according to George Dawson, VP in charge of sales. Hiatt will continue to have his office at Spalding's 161 Sixth Ave., NYC address.



Louis "Larry" Spence added to the golf professional sales staff of Spaldings in an announcement by Amos Williams, Spalding Phila. dist. mgr. Larry will service territory formerly covered by Andy Studwell which includes Central Pa. and West Va. His residence is at Hatboro, Pa.

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It delivers a uniform blanket of water 80 to 100 ft. in diameter. At 45 lbs. pressure the STREUTER will put one inch of water on the turf in a two hour period, at a rate that assures maximum penetration and minimum run-off. The water, through 15 to 20 ft. in the air, gathers nitrogen for the greens before touching the turf. It has been estimated that 100 pounds of nitrogen per acre are added to the soil in one summer's watering. In most cases one setting will cover the entire green, thus saving time lost in moving sprinklers. To really appreciate their worth, you must try one.



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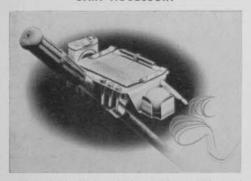
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KADDY RAK IS NEW CART ACCESSORY



The Kaddy Rak, which attaches easily and conveniently to all golf cart handles, is selling well in pro shops. The Kaddy Rak provides convenient carrying space for a score card, pencil, package of cigarettes, extra golf ball and six tees. The Kaddy Rak retails for only \$2.95. It is made by the Kaddy Rak Co., 2118 S. E. 10th, Portland, Ore.

BALL MARKING DIES AVAILABLE IN SCRIPT AND SIGNATURES

Professional Equipment, P. O. Box 26, Cincinnati, O., makers of golf ball markers and name dies, now are furnishing name dies in script type and in the golfer's own

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handwriting, in addition to the regular block style type. Details by writing Frank Tracy of the company at above address.

KLOMPARENS JOINS UPJOHN RESEARCH AND SALES STAFF



Dr. William Klomparens, Ph.D. in Plant Pathology, joins Research Division of The Upjohn Co., Kalamazoo, Mich., June 1st.

Klomparens obtained his doctor's degree in June from Michigan State College and also completed his undergraduate work there with a B. S. Degree in Botany granted to him in 1949.

In August, 1942, he entered the Army and was honorably discharged in October 1945.

He has been a graduate assistant in the Department of Botany under Dr. John R. Vaughn at Michigan State College and did outstanding work there in research on helminthosporium disease.

In addition to his research assignment he

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will assist the Upjohn chemical sales department by serving as a field turf consultant to the golf courses and as a speaker for the golf association meetings throughout the country.

His research work will be devoted to plant diseases and to the development of

new uses for Acti-dione.

DOUBLE ROTARY INTRODUCES NEW SPRINKLER

A new and improved Model L Sprinkler, that will cover as small as 15 ft. or as large as 80 ft., is introduced by the Double Rotary Sprinkler Co., Kansas City, Mo. The new model's performance is based on its ingeniously simple gear mechanism, designed to give many years of trouble-free service.

The new Model L has been in operation on a field test for more than two years, according to Mrs. L. M. Holland, Mgr., of the Double Rotary Sprinkler Co. These in-use tests proved that it is exceptionally trouble-free, she said, and that it gives almost as much water coverage as the double spout style.

Another feature of the new model is a new aluminum alloy base.

NEW POWER FOR LEAF REMOVAL



The Turbo Jet power leaf mill recently introduced to the market simplifies the problem of maintaining large landscaped grounds by gathering and pulverizing fallen leaves, blowing the fine chaff back into the lawn as a mulch and leaving grounds neat and leaf-free. According to the manufacturer, the unit will also clean leaves out of ivy beds, from around curbs, copings and fences, shrubs, and other similarly difficult-to-reach locations.





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Other advantages cited for the machine include: no leaves to dispose of after raking; easy to operate; low operating and maintenance costs and low purchase price; quality materials and component parts used throughout. For further information write The Turbo Jet Mfg. Co., 22 Bowman Terrace, Cincinnati 29, Ohio.

PROS COLLABORATE ON SWINGROOV TRAINER

Swingroov Co., Dumont 7, N. J. has a new practice device on which Johnny Far-rell, Larry Brancato and Bud Geoghagen collaborated. The device is one that allows the golfer to swing freely when his swing is correct but which impedes an incorrect swing. There is an instruction book by Farrell in each Swingroov pack-

CANVAS "PRACTICE RANGE" HANDY FOR PRACTICE

Defender Textile Corp., 425 Broadway, New York, N. Y., is making a "Portable Driving Range" of extra strong tent duck which is water-, mildew- and fire-proof. The outfit's over-all dimensions are 8 ft. by 8 ft. by 6 ft.

It is shipped complete with stakes, tent pins and nylon rope for quick and con-



venient installation at a handy spot in the golfer's yard or in warm-up space by a tee.

It is a surprisingly substantial outfit, and weatherproofed. Price is moderate. Sales have been rapid since its recent introduction and it seems to be a very good item for pro shop selling.

SWINGING AROUND GOLF

(Continued from page 31)

at semi-public courses owned by CDFGA members.

J. B. Hood, editor, People's Journal, 7 Bank st., Dundee, Scot., sends attractive colored map of Carnoustie course where this year's British Open will be played . . . Hood says if any members of clubs where Dundee or Carnoustie fellows are pros are coming over this summer he'd