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key back of that is the turf specialist at the college. If you have a real leader there, and a man with full information, he can do a lot to shape opinion and to determine the course of events. So I say that is the real key to this whole thing.

The need for advisory service is greater than it has ever been before. We realize it. When I went to Deltaville and saw that tremendous stack of information, scattered through so many volumes, I thought, how can we get that out? It is obviously impossible as it is. We should do the very best job of correlating all that information, bringing it together for each class of turf, bringing things up-to-date, and then we can go on from there, because when a man enters work in this field today he has to go back over a lot of material and he may draw some erroneous conclusions from earlier work that was published and has since been corrected. He may not find all of those references.

We look with pride upon the part that industry has played in this whole turf industry. Seedsmen, fertilizer manufac-

turers, chemical houses, equipment men—there has been a fine spirit of cooperation in collaboration in the turf field in the future.

The Green Section has played a significant part in the development of the turf industry. From a small beginning 25 years ago it has grown to be the leading factor in turf development. Through an expanded and broadened policy of education, research and advisory service, the Green Section will continue to provide leadership, information and materials for the improvement of all types of turf. The going has been tough during the war. Food and military requirements came first. Reduced income caused many clubs to drop their membership. Personnel was at an extremely low ebb. Happily, those at the helm had faith and the desire to preserve intact the structure and the functions of the Green Section. Many of these dropped memberships are beginning to come in, which means that we can lend a great deal more assistance where assistance is needed.

Canterbury All Set With Open Plans

TWO OF THE busiest men in golf these days are Edwin J. Hull and Walter Vetter of the Canterbury GC, Cleveland, Ohio.

Canterbury is the site of the forthcoming 46th Open Championship of the USGA, and Hull is chairman of the house operations committee as well as President of the club. Vetter is the club manager. Headaches for the two and their assistants began early last fall and will continue with them through tournament time, June 13th, 14th and 15th.

"I live right here in the clubhouse, but I'm so busy getting ready for the tournament that I hardly have time to say hello to my own wife," says Vetter, manager at Canterbury the past 11 years. He added, however, that despite shortages, "We will be all set to handle a record crowd and promise the visitors to the Canterbury championship hospitality as well as championship golf."

About 250 extra employees will be added to the Canterbury payroll the week of the tournament, according to Hull. There will be between 60 and 70 waiters, 5 extra cooks, 30 bartenders, 10 accountants, 25 cashiers and an undetermined extra number of maids, porters and locker-room attendants.

Lockers will be cleared of members' belongings and the locker room will be turned over to contestants, USGA officials, and

members who are working on the tournament.

The club's grill room will be reserved for the exclusive use of the contestants and the sports writers. The remainder of the clubhouse, which will provide a seating capacity of 500, will be devoted to the use of members and their guests. All meals will be served buffet style with admittance whenever vacant seats are available.

Outdoor refreshment facilities will be connected to the clubhouse and even rain cannot interfere with arrangements for service. Tents housing sandwich, cold drink and coffee concessions will also be erected in the nursery and picnic grove near the 13th hole. A 250-foot bar will administer to liquid needs.

Luncheons will be \$1.75 in the dining room with a special in the grill for contestants and members of the press at a 50-cent discount.

No cash will change hands in the clubhouse or tents. Coupon books and strip tickets which may be exchanged for food and drink will be available at a number of booths spotted strategically about the grounds.

The press tent, 40 by 60 feet, will be set up on the tennis court near the clubhouse. This tent will be complete with scoreboards, of course, and tables, chairs and typewriters for 50 or more reporters. There will also be several telephones and telegraph outlets. Another large scoreboard will be located just west of the swimming pool in plain view of the gallery.

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2-4 Dow Weed Killer is the tested product you've been reading about. Use it wherever weeds must go so grass can grow—lawns, parks, playgrounds, golf courses, cemeteries and airfields. And for better maintenance—along highways, railroads and utility lines. 2-4 Dow Weed Killer is available in both powder and liquid form. It comes conveniently packed in sizes for every need.

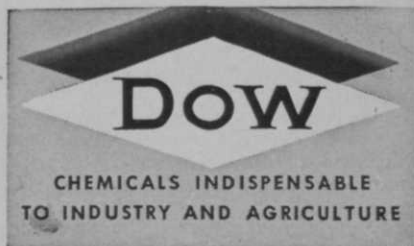
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Golf In Early Days

(Continued from Page 32)

Park, Riverside, Westward Ho, Evanston, Edgewater, Belmont and Skokie.

Other highlights of that issue of *Western Golf*:

"Caddies at the Sellwood (Ore.) course struck the other day. They had been getting 15c for a round of 9 holes and 25c for a round of 18 holes. They are still out."

Golf Getting Big

"It is estimated that in the East more than \$1,500,000 will be expended this season in the erection of golf club houses alone, to say nothing of the money which will go into the maintenance of grounds, etc. It is, of course, impossible to give an exact accounting of the amount of capital invested in American golf, but * * * men who have made some study of it declare that \$200,000,000 is short of the mark. Others say that, computing the capital shut up in golfing lands, \$500,000,000 would be near it."

"So far as our knowledge extends there are only four instances of holing in one stroke in the history of American golf."

An eastern club investigating a report that their pro was of negro blood, "announce proudly * * * he is, instead a lineal descendent of John Rolfe and Pocahontas."

"It is reported from Brooklyn that the caddies of Long Island intend to form a trust."

"A liquor maker in New York city says that the growth of golf in this country has popularized Scotch whisky."

Women Start a Club

From July, 1899, *Western Golf*:

"The Danville (Ill.) GC is the only golf club in the world organized, officered and engineered entirely by women. The men were not consulted, nor was any one of the trousered tribe taken in even as a member until the ground had been procured, the course marked out, and the body put in fair running order."

"In the middle west more than 100 new clubs have been formed since March 31."

In an ad for Imperial Liquid Fertilizer, Tom Bendelow, Golf Expert says: "During the past 2 years I have laid out over 130 golf courses."

Studebaker Bros. Mfg. Co. advertises "Country club and golf wagons."

In August, 1900, *Western Golfer*, Studebaker's copy begins: "Golf grounds rolled, sprinkled and kept in perfect condition with Studebaker Wide Tire Sprinkling Wagons."

The same issue had a comedy story, "Why the Strike Occurred" by A. Caddie, the wind-up of which is that the kid is complaining about caddying 3 hours for 10 cents the round. He says that unless they make it 15 cents there'll be no more golf on "dese here links" this summer.

Vardon for Free

"Short Putts" a department by the editor, Herbert James Tweedie, said: "The golfing public of Chicago took advantage of the kindness of the Midlothian and Chicago clubs in permitting them to witness the matches played at their respective clubs by Vardon during his visit without charge, contrasting favorably with the methods of Cincinnati and some eastern clubs that charged an admission fee."

Also in that department:

"Nicholas Longworth, the well-known Cincinnati player, drove a golf ball $4\frac{1}{2}$ miles in 117 strokes over the rough country from Grandin Road to the Pillars, near Cincinnati. It was wagered that he could not accomplish this feat under 159 strokes."

Two pages were devoted to Pacific Coast golf.

Willie Hoare, who had recently broken the Sinissippi GC, Janesville, Wis., course record with a 37 is quoted; "When water is laid on the greens it (Sinissippi) will be the best 9-hole course in America."

James and David Foulis of Chicago GC, Wheaton, Ill., advertised clubs, balls and Foulis' cup. The American Eagle golf ball, made of "best gutta percha" and originally designed and manufactured by James and David Foulis, "prove to drive further than any ball against them."

Joplin, Mo., organizes its Country Club with 225 members, saying: "Almost every other town in the United States has its golf club, and an enterprising town like ours should not be behind the balance of the country that have golf clubs. * * * The links will be put in shape very soon, and a steam roller will be used to prepare the grounds."

From these quotes you can see how far, in some respects, golf has come in the past 47 years, and in other aspects you'll see that basically the nature of golf news and problems is about the same in relation to the current American design of living.

Greenkeepers Consider Change of Name

Greenkeeping Supts. Assn. members are considering changing name of the organization to Turf Improvement Assn. Action will be taken on proposed name change and suggested new by-laws at the association's 1947 convention which will be held at Hotel New Yorker, New York City, February 11-14.

First name of the organization was National Association of Greenkeepers of America. Leadership of greenkeepers in turf improvement work has interested many park, cemetery, airport and estate superintendents and others in joining an association having course maintenance experts as its nucleus.

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New Fields Can Pay Pros for Golf Promotion

By STANLEY ANDERSON

AS EVERYBODY KNOWS and is probably tired of hearing, Great Britain and Europe are short of many things, food, fuel, clothing and many other commodities that go to make life easier and happier. But it is also short, very short, of good lecturers on nearly all subjects. There's a British market for them, especially in the field of sport.

Some enterprising American business man should promote a lecture and demonstration tour of America's leading professionals, through Britain. I do not mean that unkindly to my own people, the British, for we are great sportsmen and very good golfers, but we have not yet grasped the new psychology of golf, which amounts to playing the game in an advanced personalized mechanical way. Our whole mental attitude towards golf needs changing and no British lecturer would succeed in changing it. It may sound odd but it is a fact, while an American could.

I have a theory myself concerning the psychology of golf and have completed a short book on the subject. My friend Dr. Leland of the University of Minneapolis, Minnesota, has suggested that I visit the University and talk to the students upon this subject. The leading professionals from America, after they had made what I know would be a successful and interesting tour of Britain, could then return and visit the colleges and universities of America and teach the same psychology and mechanics. It would do much to increase public interest in golf instruction and confidence in the pro as a master of the art and science of instruction.

It is my belief that having acquired a certain standard of play and given a reasonable brain and a normal healthy body, the rest is a matter purely and simply of the informed discipline of one's mentality. More and more this is becoming obvious to any keen follower of American golf. It has not, however, become obvious to golfers on the other side of the Atlantic.

Now there is a wonderful opportunity for a promoter to seize this chance and send to the other side of the ocean experts where their reception would be eager. There are the golf clubs, universities and colleges of Great Britain for them to explore. This is the time for such an historic tour. Our people, like yours, are sick and tired of war, politics and planning.

There are many new names coming to the fore in British golf. In our tournaments since peace quite a few victories have been won by long shots. The British amateurs too, are beginning to take golf seriously. No longer do they regard it as a pleasant way to waste a few hours during the week end. They have come quickly to realize that if they are to compete at all seriously they must get down to work and working today on golf is as hard a job as any.

A great deal of golf could be taught through the means of phonograph records. That field, in which your Chick Evans pioneered after World War I, is due for a big revival. The leading professionals could give lessons on every club as a separate record. The enterprising record companies should soon be able to supply a complete symphony of Nelson, Hogan, Snead and Henry Cotton. The possibilities in this direction are indicated by the huge sale of musical swing and more serious records. But for some unknown reason it has never been regarded seriously enough as a way of teaching golf.

I know that I myself learned as much from watching Bobby Jones in tournaments as I ever did from any other source. Have pros by their broadcasts ever paid deliberate attention to telling golfers how to watch tournament play and what can be learned from it?

I used to do a bit of broadcasting in England on golf and I have always felt that here is a field where imagination could play a far more constructive part in popularizing and improving play. The radio is being used fairly extensively for tuition in the United States but still on too much of a casually experimental basis.

The followers of golf and the readers of golf news and articles have often been heard to say that too much of the material refers only to the champions. That brings up another interesting point. Golf like most other sciences has progressed so far that it has left the little man standing. He reads of fantastic scores, of prodigious drives and of incredible shots. This is O.K. for the champions. but in order to satisfy and please the ordinary individual, it is in my opinion going to be necessary to pay more attention to his own game.

The general trend has been to devote so
(Continued on Page 73)

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weed right on down to the roots. Tufor gets all the growing weeds that are present at the time of treatment.

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Teach Mower Operators More About Machine Maintenance

By HARRY A. BURKHARDT

MOWERS NOW are precision built machines that require attention and repairs to keep them in first class condition. Too many people still think about a grass mower as they would a shovel, hoe or wheelbarrow; use it, leave it in a corner and forget about it.

Our first job then is to convince people that mowers are machines that need attention and care and to show them how to lubricate, adjust, and operate the machine in a proper manner. You know the best grass mowers built are the common shears and when they are out of adjustment they will not cut. In a reel type mowing unit you have a very small range that keeps the fly knife and bed knife in a position similar to the shears.

Selection of the proper cutting unit for the right job has a great deal of bearing on how good a job you do and how long the machine will last under proper operation. The life of a mower depends on its care in actual operation as well as regular maintenance and repairs. That means you should train operators and have a good mechanic to service the unit after each day's operation. What's done on a mowing unit in the shop after the last cutting to make it a well conditioned machine to start out with in the spring would be educational to many mower operators who now don't realize they're handling an instrument of precision.

The first work to be done on the unit starts at the wash rack. The unit should be thoroughly cleaned before it enters the shop. This not only makes it easier to work on the machine but also saves a lot of work cleaning up the shop. Sometimes it pays to use a cleaning tank with strong cleaning solution in order to remove the grease and paint from the unit and give you a better finished job when the unit is painted.

The mower is now ready for the mechanic to take apart. He checks all worn parts, tests bearings for play and shafts for alignment. The reel is taken out and placed in a grinder and ground just enough to gain a true surface. Further grinding is a waste of metal and shortens the valuable life of the mowing unit. The bed knife is ground true and the front lip squared up so that you give the shears clearance and still cut perfectly. Now you are ready to assemble the unit and replace all worn parts with new parts.

When bearings are fitted into the case and on the shaft one must be certain they are a snug fit and that they are revolving on the balls and not on the outside of the case. A good many times a loosely fit bearing spoils a shaft as well as the case. Where this happens it is impossible to adjust the mowing unit properly and causes undue wear on the fly knife and bed knife as well as requiring more horse power to push or pull the unit.

A little solder on the outside of the bearing case or on the shaft will hold the bearing in place and give a full season's use without trouble.

The pivot point in a mower is an important part of a cutting unit and every precaution should be taken to insure a free movement of the cast back as well as a true alignment.

Adjusting screws or bolts are generally fine-threaded and will never stand forcing so be certain that your mechanics do not over-tool themselves when they begin to make the reel adjustment.

Rollers and casters generally control the height of cut and it is here that most of the wear occurs through a mowing season. Unless bushings or bearings are in good shape it is impossible to get an even cut and causes the wash board effect you sometimes see.

Be sure that your mower frame is square when you start to bolt it together. A wooden jig that holds the mower in place is a good aid in getting the proper adjustment. A mower frame that is out of square will bind and cause undue wear, also it will be hard to push or pull.

If the mower has been properly ground and assembled it should cut perfectly but in too many cases club workshops do not have modern grinding equipment and it is necessary to lap the reel in emery and oil. This does no more than wear the cutting unit into place but if properly done will help increase the life of a good cutting edge.

If the entire unit is mechanically perfect the adjustment of the fly knife will control the wear on the unit unless the operator runs into an obstruction that will bend or nick the fly knife.

Improper Adjustment Ruinous

I think I am safe in saying that 90% of the wear a mowing unit gets in a cutting season is caused by improper adjustment.

(Continued on Page 63)



Founded in 1922 in the old town of Longmeadow, about five miles from Springfield, Massachusetts, the Longmeadow Country Club has long been considered by leading amateurs and professionals one of the finest in New England. Its friendly atmosphere, its well kept fairways and greens make playing at Longmeadow a privilege and a pleasure.

Mr. H. B. Ellis, President of Longmeadow, writes "We are very much satisfied with our Worthington Mowing equipment."

Worthington golf course equipment consists of the new Worthington "Chief" Tractor, the 7-gang Fairway Mower, the 5-gang "Rough-Grass Blitzer," and the Walk-behind Sickle Bar Mower. If you have a mowing problem, we can solve it.

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Approaching No. 3 green at Kahkwa. New evergreen plantings shown at left.

Plant New Life

(Continued from Page 28)

again. Fifty tons of sludge were put through a Royer and sold for lawn fertilizer at \$2 the bag and the profits used to defray expense of liming and sludging the fairways.

In 1945, after the season closed, another 50 tons was similarly processed and the profits used the past winter to build a new repair shop; 24x36 with concrete floor and plenty of light. Repair work had previously been done in a 75 year old barn. Bulldozers were put to work making a new approach to No. 4 fairway, taking away a hazard on No. 3 hole and building some new tees.

Blue, red and green courses (three in one), with 6250, 6450 and 6650 yardages, have been set up for 1946. New cards in three colors have been secured. A new practice putting green near No. 1 tee is going in. A new summer house of stone has been built in the center of the course. All of these course improvements came out of sludge profits.

During the past winter the same green-committee added another 25 golfers with initiation fees and sold an equal amount of stock to old associate members. It was not difficult to get \$4000 for new equipment. New fairway mowers, modern pressure sprayer and a new pump for the course doubling the water available, with other equipment, are being used this year.

Sign New Staff

Ross Brown, well known in western New York, took charge of the course in March. He is enthusiastic about Kahkwa possibilities. He wants to complete the modernization and do some more things Donald Ross would probably have done had he laid out the course 30 years later.

What happened in the house in the meantime? Very little. The bookkeeper again managed the club in 1944 but service was spotty and sporadic. Because of cook difficulty the dining room was not permanently opened to stay open until August 10th that year. Believe it or not

the green-committee hired 6 cooks to report August 10th and after that members had service. In 1945 a braver effort was made. Although golf meals were cut off in the grill the play continued in increasing volume. House operation lasted until Labor Day.

In 1944 and 1945 operations the green-committee saved \$16,000 over 1941 and 1942 costs on golf course and grounds so the club made a small profit as a whole each year.

Finally realizing the necessity of experienced management the club secured the services of George Miller, formerly with Milwaukee Club and Evansville



Art Vogt, for 24 years pro at Erie's Kahkwa club, estimates that in the past 8 years Cy Lund has visited the club 2500 times on work connected with the landscaping, course maintenance and general building of the club. Cy, now green-chairman, is genl. agent for Pacific Mutual Insurance Co. and like many other insurance man golfers, full of pep and high purposes. When he saw Kahkwa slipping he urged the landscaping plan to give new life to the course stage setting. So they let Cy do it. When the club's membership situation got desperate they had Cy head the drive. He brought in 100 new members by his own efforts. Now Kahkwa's in strong shape and the spark-plug of the revitalizing procedure can ease up. Around that club they'll tell you "Cy's quite a guy."—Ed.



(Ind.) CC. He also took over in March and has ready at hand an eager clientele of at least 1200 people; all looking forward to the good things in the house denied the Erie community in 4 years of less than average operations.

Art Vogt, pro, is now in his 24th year. Golf has changed Kahkwa over from a 311 member club with 125 golf members in 1941 to 400 membership and 250 golfers